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MASSACHUSETTS AGRICULTURAL COLLEGE

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

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Trade Training.

[In the following extracts from a paper read before the National Association of Builders, by Col. R. T. Auchmutz, of New York, there are suggestions for the Society of American Florists. Can not we, through our national society, establish a florists' apprentice school?]

GENTLEMEN:—However desirable it may be that there should be a wide acquaintance among those who follow the same callings, however pleasant the annual meetings of this organization may be, particularly when hospitality is so thoughtfully and lavishly offered as it is here, it is not for social purposes that these conventions of the National Association of Builders are held. Neither do you come together to consider how work can best be done. Valuable essays may be read, but the discussion of such subjects can wisely be left to the local organizations or to the columns of the trade papers.

You have come from all parts of the United States to consider such matters as pertain to the conduct of your business, and which can only be determined by concerted action. Such subjects as the position you are to hold to those who employ you and to those you employ; the best means of guarding against unfair dealing or against such competition as, under the guise of reducing the cost, lowers the standard of workmanship; the establishment of a regular form of contract and providing for a specification which conveys the same idea to all who work by it, and, far from least in importance, the best method of training the youth of this country in the mechanic arts, these subjects concern you all. In dealing with them as individuals you can do little, while dealing with them as an association all that is reasonable and just can be accomplished.

At meetings, then, held by business men for business purposes, those who speak should discard theory and confine themselves to what they know. I have been invited to come here today to give my views on training young men so that they can not only become mechanics, but mechanics worthy of this country. This invitation has been extended to me because it has been my fortune—and I use that word designedly, for I consider it has been a privilege rather than a task to have rendered aid to the class of young men who have sought my help—because it has been my fortune, I say, to have given instruction in the building trades to nearly two thousand young men. I have heard their needs when they came to my schools, watched their progress while they were there and endeavored to ascertain their success after they left. One must be dull indeed who had observed nothing or gained no experience during seven years passed in such a work.

WHO ARE OUR MECHANICS?

Let us see who now do the skilled work of this country. In the building trades we have mechanics from England, Ireland, France, Italy and Germany, and we have mechanics who are our own countrymen. Each nationality usually follows some particular trade. In New York, for instance, the stone-masonry is mostly done by the sons of Italy; Englishmen and Irishmen lay the brick. When the heavy work of putting on the beams, or of framing and placing in position the roof trusses, begins, seldom an English word is spoken; the broad shoulders and brawny muscles of the German furnish the motive power. Irishmen and Americans in about equal numbers do the carpenter's work. In the plumbing trade, where science is as needful as skill—thanks, perhaps, to the interest the master plumbers have taken in the plumbing school—our own countrymen will soon have control. Where delicate artistic work is required, we find the Frenchman and the German. In all the trades, except the plumbing, we find that the best workmen, those who command the steadiest employment, are of foreign birth.

THE APPRENTICE.

If we see but few American mechanics at work on the buildings in our large cities, still smaller is the number of boys who are learning their trade. Those who are to fill the vacant places are learning how to work in other lands or in country towns. The 'prentice boy was once a feature in city life. Strict rules were enforced by trade associations in regard to him, which were intended to make sure he became a skillful workman. Equally strict rules are now enforced, but they are devised not to make the lad a good workmen, but to keep him out of the trades.

I need not take your time in giving a history of apprenticeship. As a system it has passed away, and, to quote from the report on apprenticeship adopted at your last convention, "there is no encouragement for its revival." The old system ceased to exist, it became impossible, when the master mechanic ceased to work with his men and when modern methods of conducting business required that labor should be subdivided. Then not only was the apprentice deprived of the personal care of his master, but the workshop ceased to be a place in which a trade could be thoroughly acquired. So important is it in a well-conducted work-shop that each workman should be kept at what he can do best, that it has come to be recognized that the larger the workshop the less chance the boy has of learning a trade in all its parts. There are workshops where, as in the Baltimore & Ohio R. R. Co.'s shops in Baltimore, a capable instructor is appointed to look after the lads, to see that they pass

through each branch of the trade they are learning and to explain to them details that otherwise would be difficult of comprehension; but such a plan would not be practical on account of its expense in the average shop.

In modern times has grown up the custom of hiring a boy to make himself useful, with the understanding that he is to learn his trade in part payment for his services, by observation and by such practice as he can get. A bright boy, if he happens to meet with a kind foreman and friendly journeymen, may learn a great deal in this way, but the chances are that he will be employed on what he can do best, and that he will not be allowed to injure tools or waste material in trying his hands on difficult work. If the surroundings were favorable the lad might become a good workman when his "time" was served; if unfavorable, he might waste four precious years, and not only not be a good mechanic, but be unfitted for any other occupation. Chance should form no part in an educational scheme, certainly not in an industrial educational system. All that the lad is likely to have with which to fight the battle of life, when he becomes a man, is his skil!; its acquirement should not be a matter of chance.

HOW TO ESTABLISH TRADE SCHOOLS.

The establishment of a trade school need not be looked upon as either difficult or expensive. Some unoccupied workshop or some vacant plot of land on which temporary buildings could be erected would give shelter. A committe appointed by the Master Builders' Association of three members for each of the trades in which instruction is given could manage the school.

I would advise that not more than two or three trades be taught at first. Bricklaying, plastering and carpentry produce the speediest results. Instruction in plumbing is of the utmost importance in large cities; but I doubt the expediency of starting plumbing schools in small towns. It will not be necessary to raise much money. After shelter has been provided, two or three thousand dollars will equip the school and meet the first demands. Such an amount could be easily raised. The Merchant Tailors' Society of New York raised $7,300 in a few days to maintain a tailoring class in my schools.

The fee should meet the running expenses, for when once it is known that the trade school is the entrance gate to the building trades, any reasonable fee required to cover the expenses will be readily paid. It is better for the young men that they should pay the cost of their instruction. Except in the case of the helpless, charity is misplaced and demoralizing. The evening bricklaying class at the New York Trade Schools will pay expenses with seventy-five members at $20 each. The cost of instruction and the waste of material in the day plumbing class, with fifty pupils, at $35 dollars each, and in the evening class, with one hundred pupils, at $12 each, will be met. A fee of $12, with twenty-five pupils, will cover the cost of the evening stone-cutting class, and $16, with forty pupils, the cost of the classes in carpentry and plastering. In addition to the expenses of each class, there must be a considerable outlay for salary of clerk and janitor, for the cost of fire, lights, printing, etc., but a very moderate increase of the fees charged at my schools would also meet these expenses and make the schools self-supporting. I cannot make too plain the fact that the young men do not want charity, but that they will gladly pay whatever is reasonable, and will save up their money for that purpose, provided they feel sure that after they have finished their training they shall be at liberty to dispose of their labor for what it is worth, and that they shall have the same right as is accorded to the immigrant when he leaves Castle Garden. Once this right is recognized, all that associations of master mechanics need do will be to hold examations and give advice. Private liberality, which in this country is ever ready to help any good work, or private enterprise, as was the case with business colleges, will do the rest.

WELL-EDUCATED YOUNG MEN WANTED IN THE TRADES.

I do not think too much attention can be given to the class of young men from whom the trades are to be recruited. Young men are wanted in the trades who have been carefully brought up, who have had a high school or even a scientific-school education. The system adopted by your association will give such young men a chance to become mechanics. Heretofore a lad who wished to learn a trade must leave school at fourteen or fifteen—at just the age he should be there. Years that would be precious at school must be passed in running errands and doing work but remotely connected with learning a trade. Respectable, well-to-do parents would naturally prefer that their sons should remain at school. It has come to be thought by the public that a mechanic does not need much education. It is said that a young man who has had a high-school education is lost to the trades; rather might it be said that the trades have heretofore excluded such young men. Master mechanics send their sons to the New York Trade Schools from all parts of the United States. They wish them to be mechanics, but they also intend they shall first have had what all Americans need, a good education, which, if they entered the shops as boys, they could not get. If an errand boy is wanted, hire one; teach him a trade, help him when he has learned it; but do not say that none but errand boys shall become mechanics. If labor is to be held in honor, it must be educated labor. A calling is regarded according to the education of those who follow it. The man makes the calling far more respectable than the calling dignifies the man. The author of the "Bread Winners" describes the secret anger of a carpenter who was not spoken to or even noticed by the rich man in whose library he was working. The employer in this case was not a purse-proud man, he had inherited his wealth, he had been a soldier in the war for the union, he was devoting his life to the benefit of his fellow-men, he meant no disrespect, but he supposed that there was nothing in common between the mechanic and himself. If a clerk had entered the same room, who worked, perhaps, for less than half the wages the carpenter earned, he would have met with a courteous reception, as it would have been assumed that he was an educated man. This is a supposititous case, but I ask if it is an exaggerated one. In looking back over your own lives, if you, as some of you probably did, commenced your life's work when you were lads, I think it will be found that you were advanced to be foreman, that you struck out for yourselves as master mechanics, not only because you may have been good workmen, but also because your parents gave you a good education.

Tree Ferns.

Among ferns the "tree" forms are of course the monarchs. It is remarkable, the difference between Hymenophyllum bivalve, growing not higher than four inches, and Dicksonia antarctica, here illustrated, which has tree-like stems often more than twenty feet high, and with spreading fronds making a head fully twenty feet in diameter. They are both natives of New Zealand and grow in close proximity. In the coal fields of Pennsylvania fossil specimens are found that are nearly identical with Dicksonia antarctica. The illustration is of a plant shown by Pitcher & Manda at the late New York show. JOHN THORPE.

New York.

"Wherein can the club benefit the trade?" is the question that is now being discussed by the New York Florists' Club.

At the July meeting Mr. C. B. Weathered opened the subject in an essay in which he advocated the opening of a club room to be used as headquarters for the members of the trade and also as an exchange, upon the same principle as the Dry Goods Merchants', Hatters' and other trade clubs.

At the August meeting of the Club, Mr. John N. May, read an essay supplemental to that presented at the previous meeting, and which he gave the title "A Realization," Mr. Weathered having spoken of his own essay as "a dream."

Mr. May's essay follows:

"We all of us feel after having a pleasant dream that if it would materialize how much it would add to our happiness and to that of many of our fellow beings also. The same may be said of the dream of Mr. Weathered, which he very pleasantly related to us at the last meeting of this Club. Now if his dream can only be made to materialize what a pleasant thing it would be for this body of florists. A home! What volumes are conveyed in that little word! The first great aim of every man, having the slightest respect for himself, is to acquire a home. Whether he be the poorest laborer or the wealthiest merchant prince his one great aim is to have a home of his own. This is the place where he goes to rest after the toil and worry of the day's business is over; but there is also another kind of a home beside the domestic one, and that is the business home. This nearly every kind of business in the civilized world has or is striving to obtain. Look at the cotton, corn, coal, iron, cattle, meat, fruit and woolen exchanges, and dozens of others representing almost every branch of industry. What are they but business homes where the men engaged in either can go to meet his fellow men engaged in the same line of business? These men do not join these homes simply to go there and kill time, on the contrary they do so because they find they can conduct their business much better and more profitably by associating freely with as many as possible engaged in the same line of business as themselves, for by doing so they become much better acquainted with the state of trade, its requirements, new ideas, etc., which are ever changing, and by embracing these he improves his chances of success. But, notwithstanding the long list of trade homes, the florists have not even the vestige of one. Nowhere in this great city can we find the slightest sign of a florists' home! Why is this? Is it because our business is such that we have no interest in common with our fellows, or is it because isolation is advantageous to our business, or shall we injure ourselves by associating with our fellow business men? Really it would



DICKSONIA ANTARTICA.

look as if it must be so—that A is afraid B will have eight or ten more "Perles" than he; or C thinks that D will cut twelve more "Valley" than himself. Perhaps if E is not very careful F will get one cent a dozen more for his Bermudas than himself, therefore it will never do for him to let F know anything about what he is doing. These and hundreds of other kindred subjects, are, in the minds of many of us, just and sufficient reasons why we should not meet and talk business matters over—as other trades do—because if we should do that it is just possible Jones may hear that Brown has some fine palms for sale and offer five cents each more for them than Smith is giving for them, and if Brown accepts the advanced price it will be injurious to his trade or he will get rich too fast at such high prices realized for his goods in open market.

"A vision of the future, my friends, will, perhaps, show the fallacy of this narrow-minded policy in all its absurdity. This simple flower before you embodies in itself harmony, grace, elegance and refinement. Its first sentiment is our great teacher, at whose door we should learn the true lesson of life, which is that the man who lives for self, and self alone is and ever will be a narrow-minded egotist, grinding the knife that will cut his own throat. This vision shows us that our business should and does teach us better things. Flowers, the most beautiful of all of Nature's creations are the foundation, corner stone and pinnacle of our business. To diffuse the love of flowers in every way possible is the only possible way to improve our business. Can we do this by isolation? Emphatically NO! But by co-operation we can do very much.

"When we carefully consider this matter it seems surprising that we have not yet roused from our first sleep enough to see that a business in which the goods are so perishable as ours, is, and must necessarily be one demanding that our goods be put before the public in the best and quickest way possible. The man growing pinks only stands but a very poor chance of having his flowers presented to the public at their best without the assistance of the fern and smilax grower, etc. The same law governs the whole line of our business. Are we not then mutually benefited by the success of our neighbors? Would it not be a benefit to the rose-grower if there were nothing but first-class flowers ever sent to the New York market? Then living prices could be asked, yes, and obtained, for every flower sent in, and the trade would be in every way benefited thereby. As it is thousands upon thousands of roses alone are sacrificed, and many growers who under the present rule of "sell-at-anything-you-can-get-for-them" are struggling under a heavier load of debts this year than ever before and they will continue to do so just as long as things remain in their present state.

"Perhaps the very pertinent question will be asked, 'how can it be changed?' By all the rose-growers meeting in their home and thoroughly discussing the matter on all its various sides; thereby agreeing not to send anything but A1 quality flowers to market, and for those to accept only a fair and reasonable price. It simply requires a little mutual assistance from all concerned to carry out such an arrangement, which in the very near future would be a very great benefit to the growers, they having received a fair return for their labor, the sellers because the goods being all of uniformly good quality sold much better and easier; the consumers because they got a better equivalent for their money; they are thereby induced to buy more largely.

"As an illustration of the advantages to be derived from intercourse with our fellow business men let me draw your attention to the Society of American Florists. The founders of this society had in their mind when they broached this subject the mutual benefit it might be to an immense number of their fellow men all over the country; but I venture to assert that not even the most sanguine of them then thought that there would in the space of six short years be such a vast benefit derived from it all over the country. Skeptics to-day claim it's no good to them (such as are afraid to let their neighbors know what they are growing) but they are in the very small minority. The greater bulk of our struggling brethren frankly acknowledge that they have been greatly benefited by the able articles and discussions which are given at its convertions every year. Furthermore a great improvement in the matter of cultivation, in making up and arranging of flowers much of which can be traced directly to the influence of what has been done by the S. A. F. and the information diffused by it can be seen by the observant in every town in the country, and, while it may slightly reduce the demand for certain lines of goods to some individual firms, it has widened the demand immensely in others and created a much wider field which is benefiting the whole trade of the country.

"Cannot we do for this city and those of our trade doing business in this city something to be of mutual benefit to all engaged in the florist business? Yes, by harmony on the word home!"

Rose Petals.

Among the "society people" that entertain extensively there is a constant demand for something new and novel; this is especially so in the way of table decoration for dinners. A decoration that we have used for the past two years, and has never failed to give pleasure, is one in which we have used the petals of roses. It is necessary to use judgment in recommending it to certain people, as the thought of destroying beautiful roses for any purpose would not be agreeable. But as flowers arranged in any form, unless the stems are in water, are of little value after an entertainment, the petals fulfil the mission of the flower in one way quite as well as another, if the effect on the guests is pleasing.

In taking an order of this kind it will save time and unnecessary annoyance if you request that nothing but the cloth be put on the table. We generally find that the caterers have the table pretty well covered, and their ideas and ours do not always agree, but in the petal decoration it is better that nothing be on the table while you are working.

We place narrow strips of wood around the table, thirteen or fourteen inches from the edge. If a center piece is to be used, which is generally advisable, place that and what candelabra or other large ornaments that are desirable; if a rose bowl is used we put the same kind of roses in it that the petals are from. The corners of the table are often round, if so we carry out the shape with our decoration, always leaving thirteen or fourteen inches for plates, wines, etc.

We have used La France petals on the table, vases thirty inches tall filled with Mrs. Alpheus Hardy chrysanthemums on each end, above the line of vision, and a

rose bowl filled with La France roses below the line of vision in the center, clusters of the same flowers placed at each lady's plate.

After finishing we carefully sprinkle the whole decoration. The effect is charming, drops of water on the chrysanthemums and roses give them a particularly fresh appearance and the little globules of water quiver and dance in the cup-shaped petals throughout the whole dinner, reflecting light and color in the prettiest manner possible.

On entering the room the effect is as though a plush scarf extended the entire length of the table. We have made monograms and placed them at each end; these we make as delicately as possible on wire frames, tying flowers on without moss, but not allowing them to come much above the petals, as though the monogram was worked in the scarf.

One of our first attempts in this line we tried the experiment of using different colored petals, placing them in diagonal lines in the center, Jacques, La France on each side, then Perles and finally Brides on the ends, blending the edges of the line together as much as possible. The effect produced was rather novel, but not as pleasing as one color. Often you can trace pretty figures and curved lines with some colored petals that contrast well. We have also used yellow chrysanthemum petals and purple violets with good effect.

We have an imported guest card which is a splendid imitation of a natural petal: the guests' names are written on these cards and placed at each plate, and finally we float rose petals in the finger bowls. If any florist is interested in this decoration and is unable to get the rose petal guest cards, I will take pleasure in making an effort to get them or send the name of a dealer who has them. They have been on the market several years, but when we wanted them we found but one dealer in the city that had them in stock.

H. H. BATTLES.

Florist Versus Caterer.

A number of years ago, when I launched my bark on the troubled seas of the retail florist, a table decoration generally consisted of a plateau of flowers for the center, and if it were to be rather an elaborate decoration, an oval plateau for the center and a round one at each end, with smilax around the table, was about the thing. These were delivered at the door, received and put on the table by the caterer. I remember one case when the florist was bold enough to attempt to put the plateaus on the table; he was sharply reprimanded by the caterer and cautioned about breaking glasses, when reaching over them. Another time when a florist delivered a plateau, he was met at the door by the caterer and when he said he had no smilax the caterer said, "you're a pretty florist, you are, not to bring no smilax for around de plates." And today many caterers when taking an order to serve a dinner include flowers in their bid; what are the consequences? In many cases the caterer gets the lion's share of the profits and if the flowers do not please it reflects discredit on our business and possibly the people will argue that the flowers gave so little pleasure that next time they will do without them.

In dealing with caterers we have taken a decided stand. We do not allow a percentage to any of them; if they buy flowers from us they state the amount of money they wish to spend; if they want a receipted bill they get it for that amount. We have known of florists giving a receipted bill for the full price with a cash discount, which did not figure in the bill. This we deem very unadvisable, because if the flowers do not please the caterer has the bill to show the customer, which reflects discredit upon the florist.

Oftentimes the caterer, if he is unsuccessful in getting the order for the flowers, will make it as unpleasant as it is possible for the florist; this he can do in many ways.

Generally when we go to a house to decorate a table, unless we have made special arrangements, the caterer has the table crowded with glassware, fruit, relishes, candelabra, etc. Most of these we ask him to remove, then he commences to talk, but finally removes them. The next time we meet the caterer at another house he don't talk so much, nor does he like us any better, but he knows that we are there for business.

After arranging our flowers we put on the candelabra and what ornaments we think advisable and either put on or recommend what relishes, salted almonds and bonbons will add to the effect. We see that the water is in the finger bowls, and either put some scented foliage such as lemon trifolia or rose geranium leaves, but generally several small flowers such as violets, sweet peas, pansies or some thing of the kind.

Before leaving we always make a point of seeing the lady of the house, often placing the guests' cards as she reads the names from the list, and finally suggest that the waiters pass many things that we have deemed advisable to leave off the table, such as fruit, colored cakes, etc., the color of which often mars the harmony of the decoration.

If we are successful in pleasing that lady we have established in one person's mind that the florist is the one to superintend the decorating of a table, and have taught one caterer to stand aside while we are doing our work and that his place is to provide, cook and serve the refreshments.

If all the florists would take this stand it would help the whole business wonderfully and I believe more and better work in this line would be done. Can we not hear from other florists on this subject?

A RETAILER.



CEROXYLON ANDICOLA.

Palms.

The engravings represent two of the most beautiful, expressive, and distinct forms to be found in this, the grandest of all exotic vegetation.

Ceroxylon andicola, or niveum, is a native of New Grenada. It is of a silvery grey tint on the upper surfaces, and is effective beyond question. The greatest beauty of the plant, however, is when it arrives at a size where the under side of the fronds are displayed. The under sides of the fronds then show as if they were made of solid silver. Mr. G. Bennett, of Flatbush, exhibited the plant from which the engraving was made. It was seven feet high and had six perfectly formed fronds.

Pritchardia grandis is entirely different and distinct from the ceroxylon. It is a palm such as artists in bronze repousse, and expressive designs will always desire. This is known also as Licuala grandis. It matters not whether it is pritchardia or licuala, the plant is always a great beauty. It comes from New Britain. It is no use giving a description of this beautiful plant, as our engraving shows how it is represented in a 10-inch pot. It was about four feet high and as much in diameter. It was shown by Messrs. Siebrecht & Wadley, and did them great credit, showing fine cultivation.

JOHN THORPE.



PRITCHARDIA GRANDIS.

Gesneras.

This genus contains many beautiful species, and the plants when well grown are very useful for greenhouse decoration. They are remarkable for their handsome foliage, which is as soft as velvet and beautifully variegated. The long, upright spikes of brilliant colored flowers are mostly scarlet or yellow, although some of the varieties have spotted flowers.

The gesneras are tuberous rooted plants, and by judicious treatment can be had in bloom at any time of the year, but they do best in summer. As is the way with many other tuberous rooted plants, they are often neglected after they are done flowering, so that they dwindle away instead of increasing in vigor, and when the time comes to repot and start them into growth again, the tubers are found to be decayed and worthless. After they are done flowering keep them growing until the foliage begins to decay, then give them less water, and as soon as growth is completed withhold water altogether. After this store away in a dry place until again required, but do not let them become so dry as to get the soil baked, or they are apt to be injured by dry rot. In fact, give them the same treatment as you would caladiums at rest, and they will come out all right. It is always best to start into growth in the old soil, and as soon as started shake out and repot in small pots, and as soon as they are full of roots shift into larger pots, using a mixture of good loam, a little peat and well decayed manure. They like plenty of water at the roots, but care must be taken to keep the foliage dry, therefore they must not be syringed at all.

They are propagated by division of the tubers or by cuttings, which root readily. When cuttings are used it is a good plan to take them early in the season in order to give sufficient time to make a tuber, for if no tubers are formed the plant dies when it goes to rest. They are easily raised from seed and oftentimes the seedlings surpass the parent in beauty, and in a batch of seedlings you may have no two plants alike. The seed should be sown early in spring. Put the seed pans in a warm, moist place; as soon as the seedlings show the second leaf prick out into shallow boxes or pans, and when large enough to pot shift them into small pots and treat them the same as you would old plants. The second summer most of them will flower.

G. Zebrina is a very handsome and distinct variety, with dark, marbled foliage, and producing a large panicle of orange scarlet flowers.

G. nægelioides lilacinella is a fine plant, with large cordate leaves of deep green, above paler and lanate below. The flowers are large and of a delicate lilac, the throat lemon color.

G. Suttoni alba: This is an entirely distinct species from Brazil, having pure white flowers.

G. chromatella: A garden hybrid with rich dark foliage and erect spikes of drooping flowers of a rich yellow color.

G. Exoniensis: A very free flowering variety, with rich, dark foliage, the leaves being covered with minute red hairs and changing color according to the light, giving the plant a remarkable appearance.

There is an endless number of garden hybrids of this species. They are all very handsome and are largely used for decorative purposes in Europe. If grown more extensively here they would become popular, as their rich appearance arrests the eye at once. JAS. S. TAPLIN.

Maywood, N. J.

Leaves of Advice From a Limb of the Law.

(For Young Florists.)

XXXII.

WHEN TITLE PASSES.

I've often talked to you about the title to property and when it passes. The question you ask me now brings up the subject in a new form. It seems, if I understand you correctly, that a small dealer in seeds and plants came into your store and laid down on your counter a bag of dahlia bulbs, and said you might have them for $10. You replied: "Very well, I'll take them." He had an errand somewhere else, and said he would return for his money. Meantime you examined the bulbs, and made up your mind that they were not worth the money, and refused to pay. He, on his part, refused to take them back, saying that it was a sale.

Let me say right here that it was a careless way to do business, anyway; but I don't think any title passed to you, for you never removed the bag from the counter; you performed no act of ownership over the bulbs. You didn't know really that they were bulbs.

Let us suppose it had been a lot of plants in pots which were plainly visible on your counter, then the title would have passed the moment you had accepted his offer. The law requires that there shall be not only a meeting of the minds of buyer and seller, but that the property shall be fixed and certain.

If I say, "I'll give you $50 for all the Bon Silene roses in your hot houses," and you accept my offer, no title passes until some act takes place to render the transaction more definite. You may not have any such roses or you may not be able to deliver them. Delivery need not be actual to be binding, but there must be a possibility of delivery. For instance, I want to buy a hundred fancy shade trees for my lawn, and you say you'll charge me $100. I accept, but no title passes up to that point.

Suppose, however, we walk out to the nursery, and I pick out the trees I want, still no title passes to me until I have made payment or part payment, for the amount being $50 and over calls for some memorandum in writing or part performance.

If you sell me a bill of goods "on approval," no title passes until I accept; but failure to return within a reasonable time would be acceptance, unless it had been agreed that I was to give written or verbal notice of acceptance.

You ask me: "Suppose a man buys so many fruit trees of me and pays one-half or one-third cash, and the trees are burned while still in my storehouse, upon whom would the loss fall?" Upon you, unless you had made an effort to deliver and he had requested you to hold them a little longer. Then the relations become changed and you are acting as his agent.

No title passes at a sale if the goods are not yet in a condition to be delivered, by which I mean that their destruction by fire or otherwise falls upon the seller.

Now as to the necessary "mem" to pass a title when the goods are of the value of $50. The form is quite immaterial. It may be in pencil, may be signed by the initials of the parties. But there must be a distinct and certain reference to the goods so that on the face of the "mem" a man of ordinary intelligence could get at the gist of the sale. This "mem" must be positive in its statement. Any such phrase as "provided" or "upon certain conditions" would invalidate it.

In some states it has been held that an oral contract which would be void on account of there being no "mem" of it in writing, would be upheld provided the person to be charged had admitted in a letter to a third person that he had made such a contract.

In the absence of fraud, which you must always bear in mind invalidates all contracts, the moment you deliver the article and hold the money in your hand the title has passed, even if you have not yet made change.

A minor, however, may disavow a contract of sale and return the articles, but not so if he be acting as the agent of his father.

No doubt you have many married women coming here to order flowers. It behooves you to ascertain whether it is done with the knowledge and consent of their husbands, for flowers are certainly not what the law calls "necessaries," for which a husband would be liable in any event.

Whenever goods are ordered without being seen there can be no passing of title even if cash is paid down, for the buyer cannot know whether the goods will come up to the promise made him, or be equal in value to the sample. In such a case no title will pass until the goods have been delivered and accepted.

In your business, on account of the perishable nature of your goods, there should be an immediate return of the goods or notice of refusal to accept them.

It is always advisable for you to inform your customers, when upon an absolute sale to them they make a request that you hold the goods for them, that you do so at their risk. Nor do I think that a mere placard hung on the wall would be sufficient notice. You should bring it to their notice in positive and absolute terms. Printed conditions on the billhead would be good enough notice.

Ah, yes. I'm glad you spoke of exchanges, for they often occur in business life. The rule, then, would be that there should be an absolute delivery on both sides. So long as this did not take place the exchange would be incomplete, unless you had seen the property offered in exchange, and were perfectly acquainted with its advantages and defects. Even then I think you would have the right to return it upon specifying that it had been allowed to deteriorate since you had last seen it. You ask me whether you in your counter transactions are required by law to "make change." I say, strictly speaking, no! If a customer enters your store and says: "I'll give you the price asked for those chrysanthemums provided you'll throw in the azaleas standing there," you accept the offer, and he tenders you a bill of large denomination in payment, no title passes. You would not be obliged to make change for him, and he could not insist that the title had passed to him.

Making change is often a real hardship and a thoughtless dude will offer a "fiver" in payment for a five cent pink for his buttonhole, and look deeply grieved because you will not empty your cash drawer to please him.

UNCLE BLACKSTONE.

Wreath.

The wreath as shown in the illustration was made entirely of white carnations. In this case we put a cluster of valley, which was apparently fastened on with a band of light purple pansies (not blue). In summer time, when flowers are scarce, we make many of our designs in this style, using balsams, making the design as symmetrical as possible, and trusting to the flowers that we put on top to relieve the stiffness. The effect to us is very pleasing, and gives an excellent opportunity for making pretty combinations of color. For instance, let the design be a wreath or a cross, after making it as above, take a cluster of Perle roses, and lash them on with a band of *light blue* (not purple) myosotis (forget me not), or a cluster of pink roses with band of mignonette is also a beautiful combination. A veil of Adiantum Farleyense on the pure white design is beautiful, and when a touch of pink is added is still more lovely. An anchor made entirely of white with a rope of colored flowers is good.

H. H. BATTLES.



New Roses.

At Messrs. E. G. Hill & Co.'s establishment at Richmond, Ind., roses are the leading feature and judging from the immense stock of Waban which Mr. Hill has worked up he must certainly have great faith in this new rose. The finest plants of this variety I have seen anywhere were at this place. His stock plants are 20 inches high and full of vigor.

Probably Mr. Hill is the largest grower of new roses in this country. He has them from France, Germany, England, Ireland, etc., and from the vast number of varieties he has on trial, we certainly should expect some few valuable additions to our already fine list of forcing varieties.

Last year's novelties of promise are Mme. Zea Cologne (H. T.), a rose of the La France type, but darker than it or Albany; Mme. Gustave Piganeau (H. P.) fine in form, good finish, and of a beautiful ruby crimson, shaded scarlet; this is probably the best H. P. rose of recent introduction; Mr. H. thinks this will rank with any of the ten best now in cultivation. Another good H. P. is Gloire des Brussels, about the same color as Princess Camille de Rohan, but a much finer and better shaped flower and a more vigorous grower. Mr. H. thinks well of the Dickson's new hybrid roses, Earl Dufferin, Lady Arthur Hill, James Brownlow and Margaret Dickson.

Among the tea roses of last year that are promising are J. B. Varrone, in the way of Luciole, but superior to this variety, being a freer bloomer and of better constitution; Martha du Bourg is a very pleasing rose, flesh white with crimson shading; Mme. Pierre Guillot will surely come to the front as a forcing rose, being superior to Mme. Watteville in every way both in color and freedom of bloom.

Among the novelties of this year are some very promising ones, notably: Mme. A. Veysset (H. T.), a beautiful striped sport from La France, very pretty and attractive. Triumph de Pernet Pere (H. T.), is a valuable addition to the H. T. family on account of its fine, bold flowers and the freedom with which it produces them.

Mr. Hill has an interesting seedling which he purchased of J. B. Guillott while in Europe two years ago. I was fortunate enough to see a few good blooms of this very striking variety, resembling Clotilde Soupert in freedom of bloom and growth. In color it is quite unique and entirely distinct from any other variety, being a deep copper red with bright yellow shadings, varying from this to a flesh pink with intermediate shadings. This will certainly be a first class variety for the catalogue men.

Kokomo, Ind. W. W. COLES.

Toronto.

The convention is booming here just now. The daily papers are talking about it, citizens are curious, the pulse and temperature of all in the trade has gone away up above normal, the city aldermen want to take a hand in the entertainment business in order that things may be done in proper style and that Toronto may not lose the good name she already possesses in the minds of neighbors across the line—an imaginary line after all if it was not for those meddlesome customs officers.

Alderman Hallam, who entertains the convention and ladies, the local club, their wives and sweethearts, and the city council, at a garden party on Wednesday afternoon, has taken hold of his part with a will that is sure to make that afternoon a most enjoyable one. Alderman Hallam's residence—"Chorley Park"—is situated in a new suburb of Toronto where there are some delightful little bits of scenery, and is really quite a romantic spot.

The bowling contest will be under the management of Mr. John N. May, so that there need be no fear but what that affair will be carried out satisfactorily to all parties concerned, except to those who don't win the cup and those who don't do that will have only themselves to "cuss."

The ladies (God bless 'em) will receive particular attention from the entertainment committee on Tuesday afternoon, Mr. Laing, the chairman of that committee, having done his utmost that they shall have every attention paid them and have as enjoyable a time with as little fatigue as possible. The ladies committee will also see after their comfort and welfare.

On Friday, the day of all days, the day I will say nothing about at present, as I wish it to gradually dawn on the minds of the members of the society that the Toronto "boys" are *the* "boys" and that Canada is not a bad sort of a place after all. The Toronto G. and F. Club wants to see every member of the S. A. F. who can possibly leave home, at this convention. E.

Boston.

David Allan's youngest little girl died on Tuesday, August 2, aged 20 months.

Benj. Durfee, of Strauss & Co., Washington, was in the city a few hours on duty with the senate tariff committee.

A son of J. Geist, florist of Melrose, was nearly electrocuted recently while fooling with a live electric wire.

D. Zirngiebel is disturbed by the discovery of a new worm on his pansies. It is about an inch in length, bright green in color, and eats the leaves and flowers as though it enjoyed them. He tried paris green on them with good results.

At the August meeting of the G. and F. Club a letter was received from the Massachusetts Horticultural Society thanking the club for special premiums offered for mantel decorations and chrysanthemums at the coming fall exhibitions. Resolu-



WREATH.

tions of condolence were adopted in regard to the recent deaths in the families of Robert Farquhar and David Allan. The usual nominating committee was appointed to bring in a list of officers for the ensuing year to be voted for at the September meeting. A letter was received from D. B. Long, of Buffalo, inviting the club to be represented at a delegate meeting of florist's clubs which is to be held at Toronto during the S. A. F. convention. President Foster, Lawrence Cotter, W. H. Elliott, Jackson Dawson and P. Welch were elected and instructed accordingly.

The Saturday exhibition at Horticultural Hall on August 8 was as usual largely attended. The specialties for which premiums were offered were native flowers and perennial phloxes. The prizes for native flowers were awarded to Mrs. P. D. Richards, E. H. Hitchings and I. E. Coburn respectively. In phloxes A. H. Fewkes was first, James Comley, second, and J. H. White, third.

L. W. Goodell showed some beautiful Dianthus Heddewigii, Poppies and Phlox Drummondii. Also a pretty aquatic, Limnanthemum indicum. C. M. Atkinson had a nicely bloomed plant of Odontoglossum Harryanum and an assortment of cut flowers.

The cut flower market is full to overflowing with sweet peas and splendid asters. Gladioluses are beginning to come in freely. The overstock of roses is somewhat reduced and trade is more encouraging. Pink pond lilies continue to sell well. W. J. S.

Philadelphia.

Asters are now coming in and form a welcome addition to the stock of summer flowers. The cool weather seems to have just suited them, as they are very fine, the flowers being large and double and the colors bright.

Lilies of the valley are plenty and can be had in quantity for $4 to $5 a hundred. It seems to be quite as easy to flower now as in winter and the sprays are equally as good. Cape flowers are now being handled in large quantities by the city florists. They are being stemmed and laid away for future use or made up into designs to replete the stock.

Mr. John Westcott, chairman of the transportation committee to Toronto, is resting and fishing at Barnegat Bay, preparatory to the trip. With Mr. Westcott in charge a good time is doubly assured, and it is quite certain that the journey from Philadelphia to Toronto will long be remembered by those participating.

The last meeting of the Florist's Club was largely attended. All were interested in Mr. Westcott's paper, "How to go to Toronto."

The delegation from Philadelphia and vicinity will number from forty to fifty, perhaps more, as many do not make up their minds until the last day. At the meeting of the club quite a number were on the fence, but may be found grip in

hand at the station on the morning of the 17th.

The bowling contest attracts no little interest and some large scores are certainly looked for. Local matches are at times very exciting but when compared to an international contest such as this is to be they only serve as preparatory steps. May the best team win and may they be found to have hailed from the Quaker City. Y.

Directory of Clubs and Societies.

The Florists' Club of Philadelphia:
Robert Craig, Pres , 49th and Market Sts.
H. F. Michell, Sec'y, 714 Chestnut St.
Meets first Tuesday of each month at Horticultural Hall, Broad street above Spruce. Organized October 5, 1885. Annual election of officers first Tuesday in October.

The Chicago Florist Club:
G. L. Grant, Pres., 54 La Salle St.
F. F. Benthey, Sec'y, 175 Wabash Ave.
Meets second and fourth Thursdays of each month at 54 La Salle street. Organized Nov. 3, 1886. Annual election of officers the fourth Thursday in October.

The Gardeners' and Florists' Club of Boston:
L. H. Foster, Pres., 13 Mather St , Dorchester, Mass.
J. J. Cunningham, Sec'y, Readville, Mass.
Meets at Horticultural Hall, Boston, first Tuesday of each month. Organized January 7, 1887. Annual election of officers first Tuesday in September.

New York Florists' Club:
A. S. Burns, Pres., 11 West 28th St.
John Young, Sec'y, 53 West 30th St.
Meets second Monday of each month at Germania Hall, 194 Third Ave. Organized July 6, 1887. Incorporated February, 1891.

Montreal Florists' and Gardeners' Club:
James McKenna, Pres., Cote des Nieges.
W. Wilshire, Sec'y, 688 Sherbrooke St.
Meets second and fourth Tuesdays of each month, at Cathcart Hall, Natural History Society Building. Organized November, 1888. Annual meeting fourth Tuesday in March.

Toronto Gardeners' and Florists' Club:
John Chambers, Pres., St. Lawrence Hall, Toronto, Ont.
A. H. Ewing, Sec'y, Normal School, Toronto, Ont.
Meets second Wednesday of each month in Room 2 Y. M. C. A. building, corner Gerrard and Yonge Sts. Organized October, 1889. Annual election of officers second Wednesday in November.

Buffalo Florists' Club:
Wm. Scott, Pres., 479 Main St.
Dan'l B Long, Sec'y, 457 Main St.
Meets second and fourth Tuesdays of each month at 557 Main St. Organized December 7, 1888. Annual election of officers second Tuesday in March.

Gardeners' Club of Baltimore:
Wm. Fraser, Pres., 1744 N. Gay St.
Henry Bauer, Sec'y, 1875 N. Gay St.
Meets second and fourth Tuesdays of each month at Knapp's Hall, 205 N. Halliday St. Organized March 17, 1887. Annual election of officers fourth Tuesday in March.

St. Louis Florists' Club:
Chas Connon, Pres , 2742 Olive St.
S. Kehrmann, Jr , Sec'y, 21 S. Broadway.
Meets first Tuesday in each month, at Odd Fellows Building, 9th and Olive Sts. Organized August, 1887. Annual election of officers first Tuesday in August

Society of Indiana Florists:
Fred Dorner, Pres., Lafayette.
Wm. G. Bertermann, Sec'y, Indianapolis.
Annual convention at Indianapolis, in November, during chrysanthemum show. Organized 1886.

Indianapolis Florists' Club:
J. J. B Hatfield, Pres , U. S. Arsenal.
Wm. G. Bertermann Sec'y, 37 Mass. Ave.
Meets first Thursday of each month at 37 Mass. Ave. Organized 1887. Annual election of officers at the December meeting.

The Cincinnati Florists' Society:
Geo. Corbett, Pres , College Hill, O.
E. G. Gillett, Sec'y, 136 Walnut St., Cincinnati, O.
Meets on the second Saturday of each month genetally at the Burnett House. Organized January 11, 1889. Annual election of officers at the January meeting.

Gardeners' and Florists' Club of New Bedford, Mass:
Josiah Eaton Jr., Pres., 99 Cottage St.
Geo. C. Bliss, Sec'y, 34 Arnold St.
Meets second Wednesday of each month. Organized January 17, 1887. Annual election of officers second Wednesday in August.

Society of Minnesota Florists:
E. Nagel, Pres , 1118 West Lake St. Minneapolis.
Gust Malmquist, Sec'y, Fair Oaks, Minneapolis.
Meets twice a year, the annual meeting the second Thursday in September, at which officers are elected. Meetings held alternately in St. Paul and Minneapolis. Organized February 25, 1888.

Minneapolis Florists Club:
Wm. Desmond, Pres , Cor. Portland Ave. and 24th St.
E. Nagel, Sec'y, 1118 West Lake St.
Meets second Saturday of each month at the West Hotel, corner Hennepin Ave. and Fifth St. Organized October 14, 1889. Annual election of officers second Monday in November.

Pittsburg and Allegheny Florists' and Gardeners' Club:
E. C. Reineman, Pres., 39 Fifth Ave. Pittsburg.
G Oesterle, Sec'y, 5 8 Smithfield St., Pittsburg.
Meets second and fourth Tuesdays of each month at Maginn's Hall, Federal St., Allegheny City. Organized January, 1891. Annual election of officers the fourth Tuesday in January.

Florists' Club of Washington, D. C.:
Robert Bowdler, Pres., Centre Market.
Eugene Cadmus Sec'y, 1419 R St., N. W.
Meets first Tuesday of each month at U. S. Botanical Garden. Organized March 7, 1889 Annual election of officers first Tuesday in March.

Forest City Florists' and Gardeners' Society:
George W. Rennie, Pres., London, Ont.
Wm. Gammage, Sec'y, box 155, London, Ont.
Meets first Monday in each month at Western Fair rooms Richmond St , London, Ont. Organized 1887. Annual election of officers at December meeting.

Society of Northwestern Pennsylvania Florists:
P. S Ingham, Pres., Oil City, Pa.
H. B. Beatty, Sec'y, Oil City, Pa.
Meets first Thursday of each month. Organized August 20, 1890. Annual election of officers at the August meeting.

Gardeners' and Florists' Club of Hamilton, Ont.:
F. G. Foster, Pres.
H. Browne, Sec'y, Wentworth St.
Meets first and third Tuesdays of each month from October to March inclusive, and first Tuesday of each month from April to September. Annual election of officers the third Tuesday in October. Meetings held at the Hamilton Association Rooms, Public Library Building. Organized October 27, 1890.

Wisconsin Florists' and Gardeners' Club:
A. Middlemass, Pres., Forest Home Ave , Milwaukee.
C. B. Whitnall Sec'y, 438 Milwaukee St., Milwaukee.

Little Rock (Ark) Florists' Club:
Joseph W. Vestal, Pres.
D. M. Tipton, Sec'y.

Florists' Club of California:
Emory E. Smith, Pres , 321 Market St , San Francisco.
M. H. Wilkins, Sec'y, San Francisco.
Organized in March, 1891.

MISCELLANEOUS ORGANIZATIONS.

Baltimore Cactus Society:
Fred W. Lantz, Sec'y 112 N. Poppleton St., Baltimore, Md.

American Wild Flower Club:
Chas. S. Horn, Sec'y, Wilmington. Del.

Erie Chrysanthemum Club:
H. Tong, Sec'y, Erie, Pa.

New Haven Chrysanthemum Club:
Miss Francis S. Ives, Sec'y, 478 Orange St., New Haven, Conn.

California State Floral Society:
Emory E. Smith, Sec'y, 321 Market St , San Francisco.

News Notes.

HORNELLSVILLE, N. Y.—W. A. Wettlin has added a new house 20x85.

AVOCA, IOWA.—Mr. D. M. Briggs, the florist, died July 9, aged 69 years.

CLEVELAND.—An Agave Americana is now in bloom at the conservatories of Mr. Isaac Leisy.

MILWAUKEE, WIS.—F. P. Dilger is building two new houses, one 100x14 for roses and a smaller one for violets.

IRONTON, O.—E. Miller is putting in a steam boiler and will in the future heat about 8,000 feet of glass by steam.

LENOX, MASS.—The Gale Floral Co., of Springfield, has opened a store here for the season—July to October inclusive.

PHOENIXVILLE, PA.—Sales of bedding plants this spring were about 15 per cent less than last year. Prices were very low here. Money scarce.

GREENSBORO, N. C.—The ninth annual exhibition of the North Carolina Horticultural Society was held here August 4 and 5. It was very successful.

UNDER THE recent reciprocity treaty with San Domingo, trees, plants, vines and seeds will be admitted free of duty from the U. S. to that country.

GRAND RAPIDS, MICH.—Crabb & Hunter have added two new rose houses to their plant, each 40x20, and will begin at once to erect a carnation house 80x26. The heat is steam and the fuel this winter will be crude oil, the coming florists' fuel.

WASHINGTON.—At the meeting of the Florists' Club on the 4th inst., after discussing the flower market project, delegates were appointed to attend the Toronto convention and they were instructed to invite the S. A. F. to hold the convention of 1892 in this city.

EVANSVILLE, IND.—Spring trade was about 20% better than last season. Four-inch geraniums retailed at $1.50 a dozen. More demand for roses in pots. Good plants in 4-inch pots sold at 25 to 30 cents each, 5-inch at 35 to 40 cents each, 6 and 7-inch at 50 to 75 cents each. Geraniums sold slow.

NEWPORT, R. I.—At the meeting of the Newport Horticultural Society, June 24, a very instructive paper on orchids was read by Mr. Richard Gardner, gardener to Cornelius Vanderbilt, Esq. Mr. John Butler, Berkeley avenue, is now recording secretary of the Hort. Society, Mr. James Galvin having left town.

BRAMPTON, ONT.—H. Dale has added upwards of 30,000 feet of glass this summer, giving him a total of 50,000 feet. The houses are heated by steam, and glazed with 16x16 glass, butted. Of the new houses one is 21x200, one 11x200, one 25x90 and two 21x350. They will be used for growing cut flowers.

NEWARK, N. J.—Mr. Henry Bird, the florist, was married to Miss Carrie Scudder, also of this city, at Niagara Falls, July 29. The ceremony was performed at the center of the suspension bridge, amid the falling spray and the thunder of the cataract. Mr. Bird recently sold out his florist business to Smith & Scudder; the latter is a brother of the bride.

PADUCAH, KY.—C. L. Brunson & Co. have erected a new greenhouse 100x20 on their grounds at Rowland Place. It is three-quarter span, with all modern improvements. All the material was purchased from advertisers in the FLORIST and the builders express much satisfaction with the manner in which their orders were filled.

PITTSBURG.—Work on the details of the coming exhibition is progressing most satisfactorily. Leading citizens have signified their intention of offering handsome special premiums, and when these are added to the regular list we shall have a very liberal schedule. The daily press has taken the subject up and considerable interest in the affair is already shown.

MILWAUKEE.—At the meeting of the Wisconsin Florists' and Gardeners' Club, August 5, the following officers were



PAVILION IN THE HORTICULTURAL GARDENS, TORONTO, ONTARIO, IN WHICH THE COMING MEETING OF THE SOCIETY OF AMERICAN FLORISTS WILL BE HELD.

elected for the ensuing term: A. Middlemass, Pres.; Wm. Edlefsen, Vice-Pres.; C. B. Whitnall, Sec'y; H. Haessler, Treas.; Messrs. O. Schucht, of Sheboygan, and F. P. Dilger and C. B. Whitnall, of this city, were appointed delegates to represent the club at the convention of clubs at Toronto.

LITTLE ROCK, ARK.—At the last meeting of the Little Rock Florists' Club there were thirteen members present. The following officers were elected for the ensuing year: Jos. W. Vestal, Pres.; M. W. Herron, Vice-Pres.; D. M. Tipton, Sec'y.; Chas. Vestal, Treas. After a short discussion we adjourned to meet in one week to devise plans for holding a chrysanthemum show some time in November.

MASCOUTAH, ILL.—A stranger representing himself to be the traveling agent of the Williamson Nursery Company, of Centralia, Ill., succeeded in getting John Renth and Ben Schoene, two prominent farmers living north of here, to sign a paper recently, purporting to be an order for fruit trees. The papers have turned up in the shape of notes for $85 and $90, respectively, and were purchased in good faith by Gust J. Schere, the real estate agent. The swindler made good his escape.

LOS ANGELES, CAL.—The Southern California Horticultural Society will hold its second annual exhibition in this city October 27 to 31. A schedule of prizes has been printed and may be had on application to the secretary, Mr. H. W. Kruckeberg, this city. Prizes are offered for chrysanthemums, roses, greenhouse plants, miscellaneous plants, evergreen trees, citrus trees, cut flowers, fruits, nuts and vegetables. There is also a list of prizes for amateurs, in plants and cut flowers only.

SPRINGFIELD, MASS.—Everything points to the success of the exhibit of the Amateur Horticultural Society, which it is now thought will be held on Tuesday and Wednesday, September 1 and 2. The society is in a highly prosperous condition, both financially and in numbers, the treasury showing over $800 balance, while the enrollment of over 200 members since January 1 brings the total membership up to 750 and makes it the largest amateur society in the country and the second largest of any horticultural society in the United States.

CINCINNATI.—The 34th monthly meeting of the Cincinnati Florist Society was called to order by Pres't Corbett, at the office of J. M. McCullough's Sons. The attendance was very good and and the meeting a very interesting one. Several new names were handed to the secretary to be added to the membership list of the society. The society will not hold a chrysanthemum show this fall. The flower market now seems to be a certainty, and a vote of thanks was tendered the administrators of the Holroyd estate for services rendered; also to the Market Protective association. A committee of three was appointed to represent this society at the called meeting of the Florists' and Gardeners' Clubs at Toronto. Business is dull and stock at present very poor, but prospects for fall are excellent. There will be only four or five of our florists who will attend the Toronto convention.

Chicago.

Market very quiet last week. Prices have weakened somewhat. Roses are offered at 2 cents on the average, although job lots are disposed of at much lower figures.

Flowers of all kinds and roses in particular have suffered severely from the blistering heat of the last few days, and it will take some weeks before the stock will be in condition again.

Garden flowers meet with very little demand. The quality has been poor owing to the protracted drought, but it is hoped that Sunday's rain will improve the crop.

On of the daily papers now announces that the Chief of the Bureau of Horticulture will be appointed Friday of this week.

The "Palace Floral Co." is the imposing name which has recently appeared on the window of the very modest frame building at 215½ North Clark street.

Off for Toronto next Monday afternoon.

Among recent visitors to the city were Harry Sunderbruch, Cincinnati; C. Kranz, Muscatine, Ia.; P. W. Armstrong, Arcola, Ill.; Chas. Woodill, of Thorburn & Co., New York; H. W. Buckbee, Rockford, Ill.; E. D. Sturtevant, Bordentown, N. J.; G. J. Braun and G. H. Smith, Denver.

THE BROOKLYN, N. Y., *Standard* laments that that city has no horticultural society, and alleges that the city is behind the times in horticultural matters. Can not some of the florists of Brooklyn assist the *Standard* in an agitation of the matter which shall result in the organization of a society?

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Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

August 25–Sept. 4, Detroit, Mich.—Annual exhibition of plants and flowers in connection with Detroit International Fair and Exposition. B. Schroeter, Supt. Hort. Dept., corner Elmwood avenue and Champlain street.

September 1–2, Springfield, Mass.—Annual exhibition Springfield Amateur Hort. Society. G. H. Lapham, Sec'y.

September 1–4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society. Thomas Vair, Sec'y.

September 8–10, Hartford, Conn.—Fall exhibition Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

September 15–17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

October 27-31, Los Angeles, Cal.—Annual exhibition Southern California Hort. Society. H. W. Kruckeberg, Sec'y, Los Angeles, Cal.

November 2-7, Louisville, Ky.—Chrysanthemum show Louisville Florists.

November 2–8, New York—Chrysanthemum show Madison Square Garden. J. W. Morrisey, Sec'y, Madison Square Garden.

November 3-5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

November 3–6, Boston.—Chrysanthemum show Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 3–6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club. W. H. Ellis, Sec'y, 133 Mason St., Milwaukee.

November 3–7, Detroit, Mich.—Chrysanthemum show Detroit Florists. Robert Flowerday, Sec'y, 460 John R. street.

November 4–6, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

November 4–6, Wooster, O.—Exhibition Wooster Floral Club. W. A. Porter, Sec'y.

November 5–7, Erie, Pa.—Chrysanthemum show Erie Chrysanthemum Club. H. Tong, Sec'y.

November 5–11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y, 811 North Water street.

November 10–12, Pittsburg—Chrysanthemum show Pittsburg and Allegheny Florists' and Gardeners' Club. G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society. John Butler, Sec'y, Berkeley Ave.

November 10–12, Toronto, Ont.—Chrysanthemum show Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School, Toronto.

November 10–12, New Bedford, Mass.—Chrysanthemum show New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.

November 10-12, Washington, D. C.—Chrysanthemum show Washington Florists' Club. Engene Cadmus, Sec'y, 1419 R St. N. W.

November 10–12, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society. Wm. Gammage, Sec'y, P. O. box 155.

November 10–12, Oshkosh, Wis.—Chrysanthemum show Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.

November 10–13, Philadelphia.—Chrysanthemum show Penna. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

November 10–13, Chicago.—Fall exhibition Horticultural Society of Chicago. James D. Raynolds, Sec'y, Riverside, Ill.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.

November 10–13, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.

November 10–14, Indianapolis.—Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.

November 11–12, Worcester, Mass.—Chrysanthemum show Worcester County Hort. Society. Edward W. Lincoln, Sec'y, 5 Oak St.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society. Thos. Vair, Sec'y.

November 11–12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.

November 11-13, St. Louis.—Chrysanthemum show St. Louis Florists' Club. S. Kehrmann Jr., Sec'y, 21 South Broadway.

November 11–13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St.

November 11–13, Utica, N. Y.—Fall exhibition Utica Florists' Club. J. C. Spencer, Sec'y.

November 12-14, Buffalo.—Chrysanthemum show Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.

November ——, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society. Chas. Wise, Sec'y, Third and Prytania Sts.

November ———, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society. Thos. E. Meehan, Sec'y.

November ————, New Haven, Conn.—Chrysanthemum show New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 478 Orange street.

November ———, Syracuse, N. Y.—Chrysanthemum show Central New York Hort. Society. H. Youell, Sec'y, 228 Beecher street.

November ————, San Francisco.—Chrysanthemum show California State Floral Society. Emory E. Smith, Sec'y, 321 Market St.

TREES, plants, shrubs and garden seeds will now be admitted free from the United States to Cuba and Porto Rico, as one of the results of the recent treaty with these countries.

WE have received another lot of tuberous begonia flowers from Messrs. F. J. Meech & Son, Charlevoix, Mich. They arrived in sufficiently good condition to show that they were certainly grand flowers when shipped, but hardly in shape to describe by name, and many of them were labelled. The flowers held together admirably, especially the double ones, but were sadly bruised. To arrive in good condition these flowers should be packed in much the same way as camellias, as they seem to be equally as subject to injury from bruises. As these begonias become better known we believe they will be largely grown for summer flowers, though whether they are available for bedding remains still to be demonstrated. But what a grand decorative subject a well grown plant in a 5-inch pot makes! Nothing could be more effective for conservatory decoration in summer, and wouldn't they sell well as pot plants for the window? Mr. Meech includes in the lot sent quite a number of blooms cut from plants grown from seed. While these do not equal the named sorts they are still of large size and splendidly colored.

WE LEARN that M. Kelley, Duluth, Minn., is the wife of E. Kelley, same place, and that orders signed by either name are substantially from the same party. We also have reliable information to the effect that the C. O. D. shipments made to these parties are often refused, and where such shipments consist of cut flowers the loss to the shipper is nearly or quite total.

IN THIS ISSUE we publish a list of the florists' clubs and societies of America, giving name and address of the president and secretary of each, and some other facts of interest. This provides a ready means of communication with all the clubs that will, we hope, be utilized, and result in bringing these organizations into closer relations with each other.

YOU CAN give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

IF WE have omitted any existing Florist Club or Society from the directory published in this issue we ask to be advised of same that the directory may be made full and complete.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

WHEN sending us small amounts in postage stamps, please select those of the 2-cent denomination.

Catalogues Received.

A. Blanc & Co., Philadelphia, bulbs; Pitcher & Manda, Short Hills, N. J., bulbs and plants; J. M. Thorburn & Co., New York, bulbs; Roozen Bros., Overveen, Holland, bulbs; Chas. D. Ball, Holmesburg, Philadelphia, Pa., palms, ferns and decorative plants; Quaker City Machine Works, Richmond, Ind., Evans' Challenge ventilating apparatus; J. L. Normand, Marksville, La., nursery stock; Joseph Bonnaire, Montplaisir, Lyon, France, roses; Ellwanger & Barry, Rochester N. Y., strawberries; W. S. Phelps' Sons, Dayton, O., labels, etc.; Vilmorin, Andrieux & Co., Paris, France, bulbs and seeds; J. P. William & Bros., Heneratgoda, Ceylon, orchids, tree ferns, cycads and palm seeds.

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Calceolaria, prize strain, trade pkt.		1.00
Cineraria grandiflora, special	"	1.00
Stock, double white, very dwarf,	"	.50
Primula Fimbriata, mixed,	"	1.00
" double white, per 100 seeds, 80 cts.		
" double red,	" "	80 cts.

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R. E. Simons,
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Wholesale Markets.

Cut Flowers.

	BOSTON, Aug. 10.	
Roses, Niphetos, Gontiers	2.00 @	3.00
" Perle, Sunset	2 00 @	4.00
" Me met, Bride	3 00 @	4 00
" La France	4 00 @	6 00
" Hybrids	2.00 @	6 00
Carnations	.50 @	1 00
Asters	.50 @	1 00
Lily of the Valley		4.00
Tuberoses		.50
Sweet peas		.10
Allamandas		3 00
Pink pond lilies		8.00
Smilax	10.00 @	12.00
Asparagus		50.00
Adiantums	1.00 @	1.50

	PHILADELPHIA, Aug. 10.	
Roses, Beauties	8 00 @	15 00
" La France, Albany	3.00 @	4 00
" Mermets, Brides		3 00
" Perles, Niphetos	2.00 @	3 00
" Gontiers		1 00
" Marie Guillots		2.00
Valley		5 00
Carnations		1.00
Asters		1 00
Tuberoses		5.00
Sweet peas		.35
Adiantums		1.00
Smilax		15.00

	NEW YORK, Aug. 10.	
Roses, Gontiers, Niphetos	1 00 @	2.00
" Perles, Cusins	1.00 @	2 00
" Watteviles	1 00 @	2 00
" Mermets, Brides	1.00 @	3.00
" La France, Albany	2 00 @	4 00
" Beauties	2 00 @	15.00
Carnations		.50
Smilax	6 00 @	12 00

	CHICAGO, Aug. 11.	
Roses, Am. Beauties	8.00 @	10.00
" La France, Albany	3.00 @	3 50
" Perles, Niphetos	2.50 @	3 00
" Brides		4 00
" Mermets	2.00 @	3.00
Carnations, long		1.00
Carnations, short	.50 @	.75
Sweet peas		.15
Smilax		15 00
Adiantums		1.00
Tuberoses, long	1 50 @	2.00
" short		1.00

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FOUR IN SET { one 10 x 4 x 3 inches. " 14 x 5 x 3 " " 16 x 7 x 3 " " 21 x 9 x 4 "
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GOOD ROSES FOR SUMMER TRADE.
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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

Description of a Rare Novelty.

MEESTER A. B.:—Yu remember dat korn yu gif me last Jannuery? Well, I planted him in a pot juist in the haus en he com up rite away, and growd up 4 or 5 feet—so hi! Ven de vetter was worm I set him out in the garden by the summer haus und he clymed, und he clymed *soo* high!! mebbee 40 feet, und covered the summer haus, all to over. By the ground he is very schlim, but up hi he is ticker, I mean de schtem. He growd like a wine und ivery leafs und send out arms every odder way—now, excouse me, don't schtop me,—he is now covered all offer mit de beutifullest large bo-kais of schmall white flowers—och so schweet—it all ofer lookks lvk schnee—you kno vat I mean—white, like in de vinter; very nice, I tel you. You sai it vas a coucomer from Schtanley de African, but I never saw a coucomer grow forty feet long. I like fery much to no, and mine frends also. I can see no coucomers in it, but sometings lik green young chestnut—fery nice and gif me great amousment. I send one of de arms by male; tel me if it vas a coucomer, or vas it a schoke of yours?

P. S. Can I leaf him out all vinter?

P. S. No. 2. Mine dockter say it vas E. Chystis Lumbatos, in Lettin, but mine frend de beutcher says it vas a vild cowcumer, an he ses he ot too no.

Yours trooly,
HANSVONGANSENBLINKENSTUFFER,
Philadelphia.

MINNEAPOLIS will have a new farmers' and gardeners' market. It will be located near the West Hotel and occupy three or four squares. The matter is a private enterprise.

MR. GEORGE HASKELL, who has been in failing health for some time, died the morning of August 12.

MR. AND MRS. S. Y. HAINES, of Minneapolis, spent a week's vacation in and about Chicago.

KANSAS reports seed crops to date in fair condition, with corn rather below average.

FRANK T. EMERSON visited Chicago August 5.

Fuchsia Gracilis.

ED. AM. FLORIST:—We send you by this mail a plant of Fuchsia gracilis taken from the open ground, where it was planted in a row after the close of spring sales. These plants stand in the full sunshine and have had only the most ordinary culture and they now stand 6 to 10 inches high and spread somewhat wider than that, making a line of color quite conspicuous, even at some distance away. This fuchsia is said by good authority to be hardy with protection, and we propose to give a portion of these plants a moderate covering and leave them out over winter as a test. I think this fuchsia has great capabilities. It is the easiest to grow and the most rapid growing of all fuchsias and can be used for a line of color as described above, as a border in a vase or stand of plants, in hanging baskets or as pot plants and it is also useful as a cut flower. We have a stand of fuchsias under a tree, and bordered it with spring grown plants of F. gracilis, which now have stems two feet long drooping toward the ground and full of flowers. We also have a two year plant in a pot, standing full four feet high and with a stem only one-fourth inch in diameter at the base, making a beaatiful little tree with a spread of 18 inches and full of its delicate little flowers. WM. F. BASSETT.

Hammonton, N. J.

[We agree with our correspondent that the value of this fuchsia is not thoroughly appreciated. The profusion with which its charming little flowers are borne, and its grace of habit, combine to make it an object of great beauty. As to its hardiness, we do not know. The result of Mr. B.'s experiment in this direction will be of interest.—ED.]

Tempering Hydrant Water.

The best method of tempering hydrant water is to use an ordinary range boiler. Place the boiler on the hot water pipes, connect the boiler, so the water from the hydrant enters at one end and have your outlet at the other end. A 50 gallon boiler will be large enough for a house 100x20 feet. The water that stands in the boiler becomes hot, but when you draw from it the cold water at once begins to enter, and the hot and cold water mix. You get the force of the city water just as strong with the boiler attached as without it. I have used this method for six years and it has given excellent satisfaction. Frequently these boilers can be obtained from plumbers at considerably reduced rates when a little rusty, which latter does not at all injure them for our purpose, which is utility and not ornament; I have bought them for $2 under such circumstances. You can have a boiler in each house and get the pressure of the city water just the same.

Orange, N. J. JOHN MCGOWAN.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As gardener by sober man not afraid to work; private place preferred. Address W H, Harrisburg, Pa.

SITUATION WANTED—By an experienced florist and gardener; married; small family; aged 35; understands his business thoroughly. Address X W, Postoffice, Bath, Me.

SITUATION WANTED—By a thoroughly competent rose grower; 20 years' experience in cut flowers and plants for the wholesale trade. Address M, care American Florist.

SITUATION WANTED—By young man, Hollander; age 21 years; 5 years' experience in Holland; reliable and honest. Address P C O, care Siebrecht & Wadley, 4 9 Fifth avenue, New York.

SITUATION WANTED—By a first class florist, German, 25 years of age; 11 years' experience; good references; speak Spanish; Mexico preferred. E. BACKOFEN, Box H, Edgely, Bucks Co., Pa.

SITUATION WANTED—By a young man who has 11 years' experience in the growing of roses, ferns, palms, orchids and greenhouse plants. Address L, Flushing, Long Island, Postoffice box 121.

SITUATION WANTED—A first class plantsman and landscaper seeks situation where none but such is wanted; married; age 30. Address R, care H. A. Dreer, 714 Chestnut street, Philadelphia, Pa.

SITUATION WANTED—By practical working gardener as grower of roses, carnations, violets and all kinds of greenhouse plants; 20 years' experience; married; age 35; disengaged Sept. 1. Address G, Box 54, Short Hills, N. J.

SITUATION WANTED—By a German florist, married; no family; long experience in all branches of horticulture; best of references; prefers to go South. Address G K, Postoffice box 410, Princeton, Ill.

SITUATION WANTED—As head gardener on private place by Englishman; aged 39; married; 25 years' experience; proficient in all branches; strictly sober and reliable; best of references. ROBERT ADDICOTT, Box 145, Glenville, Ohio.

SITUATION WANTED—By an experienced gardener, single, either private or commercial; fully understands his business. Can furnish first class references. Address J E, care Am. Florist, Chicago.

SITUATION WANTED—By an experienced gardener, either private or commercial; fully understands the cultivation of roses, carnations and violets. Can furnish first class references. Address C D S, care Schaeffer, box 15, Framingham, Mass.

SITUATION WANTED—With a practical florist, where the growing of crops and specialties can be acquired; 5 years' experience in growing general greenhouse plants; good references; small wages. Address Y Z, care American Florist

SITUATION WANTED—By a thorough, practical gardener, who understands the forcing of roses and all kinds of flowering plants, fruits and vegetables, also grapes, both in open ground and under glass; best of references from last two employers. Address J. SCOTT, Millbrook, Duchess Co., N. Y.

WANTED—A thoroughly competent rose grower, capable of managing a large establishment. Apply HORTICOLE, Grand Central Hotel, New York City.

WANTED—A second-hand No. 22 Hitchings base burning water heater with expansion tank; must be in good order, and cheap for cash. JAMES H SMITH, Milan, Ohio.

WANTED—A working florist with $800 as equal partner on a place of 9,000 feet of glass, well stocked. For all particulars address J. JACKSON, cor. Gates and Garfield Aves., Jersey City, N J.

WANTED—A man who has been successful in the management of a first class horticultural establishment, including a knowledge of forestry. Apply HORTICOLE, Grand Central Hotel, New York City.

WANTED—For an established, good paying business in large city, a partner with $15,000; splendid chance for a good business man; a practical florist preferred. For full information address A A E, care American Florist, Chicago.

WANTED—A first class floral designer and decorator of ability and good address, for a cut flower and plant trade. Address, stating experience, particulars and wages expected. J. A. PETERSON, 41 W 4th St, Cincinnati, O.

WANTED—Floral artist. Position will be vacant October 1st. Must be skillful, quick and of pleasing address. A good situation for a good man, none other need apply. Give reference and state salary expected. Address A. M. & J. B. MURDOCH, Pittsburg, Pa.

WANTED—At St. Augustine, Fla., for 3 months' engagement, commencing January 1, a young woman who is a thorough artist in the arrangement of cut flowers; must be quick and of pleasing address; one from near New York preferred. Address giving age and experience. FLOWER DEPARTMENT OF EL UNICO, Postoffice box 2832, New York City.

WANTED—First class man to take charge of a private place. Must be well up in all branches of his profession. Will be furnished good house, spare vegetables in their season and two quarts of milk daily. Must board men in his employ. Address giving previous experience, references, nationality, age, size of family and wages desired. SAMUEL THORNE, Millbrook, Duchess Co., N. Y.

FOR SALE—Foster's six section hot water boiler. J. ENOS DICKERMAN, Calais, Maine.

FOR SALE—One No. 17 Hitchings boiler in good condition. Address WM. MANN, 1011 Brook street, Louisville, Ky.

FOR SALE A BARGAIN—On easy terms, my residence and greenhouses, with all the stock, in a live western town of 3,000 inhabitants; good trade and business growing, get the trade of surrounding country and several towns. Ill health and incapability to manage the business are my reasons for selling. Address X, care American Florist.

FOR SALE.

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When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.

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Orders solicited for the following:

Roman Hyacinths, Paper White Narcissus, Lilium Candidum, Etc., from

Ls BREMOND fils, Ollioules, France.

Dutch Hyacinths, Tulips, Narcissus Von Sion, Crocus, Spiræas, Etc., from

J. V. VAN ZANTEN & ZONEN,

Established 1837, **HILLEGOM, HOLLAND.**

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LILIUM HARRISII and LONGIFLORUM, direct from the growers in Bermuda, warranted true and strictly prime.		
Size, 5 to 7 inches in circum. . .	$ 40.00	$ 5.00
Size, 7 to 9 " " . . .	65.00	7.00
Size, 9 to 11 " " . . .	105.00	12.00
FREESIA refracta alba.		
Largest size, selected bulbs only,	9.00	1.00
Second size, flowering bulbs. . .	6.00	.75
CALLAS, Dry Roots,		
Extra large, selected.	80.00	9.00
First.	60.00	7.00
CHINESE NARCISSUS, Oct. delivery.		
Extra large, selected bulbs . . .	75.00	9.00
LILY OF THE VALLEY, Nov. delivery		
True Berlin or Hamburg pips, 3 years old, extra strong, in cases of 2,500, $9 per 1000. Special price on large lots.		

The above quotations are subject to advance later in the season.

ROSES, CLEMATIS, AZALEAS, RHODODENDRONS, Etc., imported to order from Holland (Boskoop), France or Germany, at lowest prices.

For fuller particulars, see price lists, which will be mailed free to applicants. ☞ Estimates cheerfully given.

Address **J. A. DE VEER,**

Agent for Leading Foreign Bulb and Seed Growers, Nurserymen, Etc.,

154 East 34th Street, New York.

Mention American Florist.

SPECIAL LOW PRICES

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Lilium Harrisii, Longiflorum, Candidum, Roman Hyacinths, Paper White Narcissus, and all other kinds.

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TULIPS, CROCUS, SPIRÆA, LILY of the VALLEY, AZALEA INDICA, ROSES, ETC., ETC.

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If you wish to illustrate your Printing with Cuts, send 50 cents for my Catalogue of **FLORAL ELECTROS—2,250** Engravings.

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Catalogue of Cactus plants free.

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Circumference of Bulbs.	Per 100	Per 1000
SELECTED, 4 TO 5 INCHES	$ 3.50	$30 00
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EXTRA, SELECTED, 7 TO 9 INCHES	7.00	65.00
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25 Bulbs billed at 100 price. 250 Bulbs billed at 1000 price.

For terms of credit &c , see our Bulb List free to all. Send a list of your wants for special prices.

	Per 100	Per 1000
FREESIA REFRACTA ALBA, now ready. AMERICAN GROWN, large bulbs,	$1.00	$ 8 00
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E. H. KRELAGE & SON, HAARLEM, HOLLAND,

have published their new Wholesale Trade List of all sorts of bulbs and tuberous rooted plants, American edition (No. 505), which is sent to the trade only, on prepaid application.

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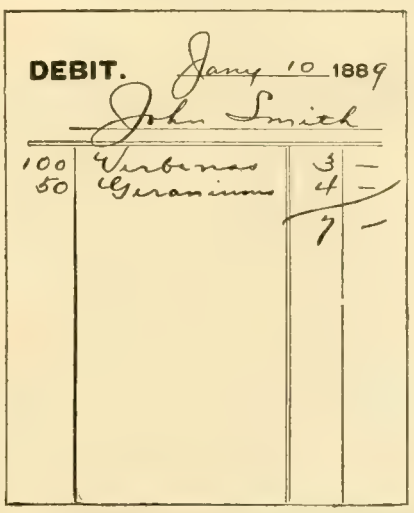
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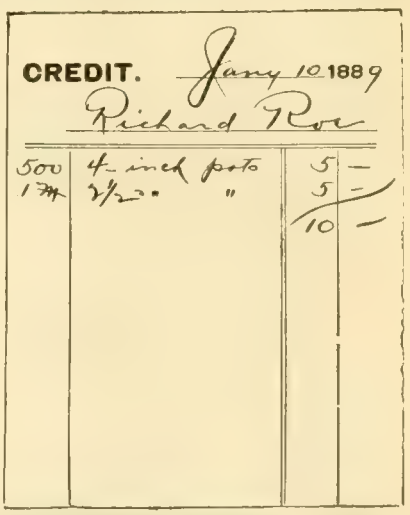
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Price of Tickets, postpaid, 100, 20c.; 200, 35c.; 300, 50c.; 500, 75c.; 1000, $1.40.

AMERICAN FLORIST CO.,

54 La Salle Street, CHICAGO

Directory Leading Horticultural Societies.

We give below a list of horticultural societies that make plants and flowers a leading feature of their exhibitions, with the name and address of the secretary of each society. If there are any other societies that should be added to this list we ask to be advised of same, that we may make such addition. We believe a complete list will be of interest to many:

MASSACHUSETTS HORTICULTURAL SOCIETY.—Robert Manning, sec'y, Horticultural Hall, Tremont street, Boston, Mass.

PENNSYLVANIA HORT. SOCIETY.—D. D. L. Farson, sec'y, Horticultural hall, Broad street, Philadelphia, Pa.

RHODE ISLAND HORT. SOCIETY.—C. W. Smith, sec'y, 55 Westminster street, Providence, R. I.

WESTERN NEW YORK HORT. SOCIETY.—John Hall, sec'y, Rochester, N. Y.

CENTRAL NEW YORK HORT. SOCIETY.—H. Youell, sec'y, 228 Beecher street, Syracuse, N. Y.

WORCESTER COUNTY HORT. SOCIETY.—Edward W. Lincoln, sec'y, 5 Oak street, Worcester, Mass.

HARTFORD COUNTY HORT. SOCIETY.—Edwin A. Taylor, sec'y, box 1,015, Hartford, Conn.

HAMPDEN COUNTY HORT. SOCIETY.—George D. Pratt, sec'y, 192 Maple street, Springfield, Mass.

BAY COUNTY HORT. SOCIETY.—T. J. Cooper, sec'y, 811 North Water street, Bay City, Mich.

HORT. SOCIETY OF CHICAGO.—James D. Raynolds, sec'y, Riverside, Ill.

NEWPORT HORT. SOCIETY.—John Butler, Sec'y, Newport, R. I.

NEW ORLEANS HORT. SOCIETY.—Charles A. Wise, Sec'y, Third and Prytania Sts., New Orleans, La.

SPRINGFIELD AMATEUR HORT. SOCIETY.—G. H. Lapham, Sec'y, Springfield, Mass.

GERMANTOWN HORT. SOCIETY.—Thomas E. Meehan, Sec'y, Germantown, Pa.

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PANSIES THAT ARE UP. Up and ready to plant when I send them. It is not only the plants that are up, the strain is up as well; up to, and most of my customers say, above any strain in the market. The price is down, considering the quality. Seed as good would cost you about as much per 1000 plants.

Price, free by mail, 100 for 75c; 500, $3; by express, $5 per 1000, with discount on large orders.

TRY THEM. THEY ARE WORTH A TRIAL.
SEND FOR LIST AND SHORT PAPER ON CULTURE.

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Plants have been growing, but the price has not; they are nice and stocky and ready to go right ahead. There is some 15,000 left. Let me have a chance to fill your order and do not delay it too long. Price $1.50 per 100; $12 50 per 1000, cash with the order. Sample for 10 cents.

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Just to hand. Cattleya Trianæ Schroederæ, the rare and very fragrant winter bloomer; Cattleya Trianæ, the old favorite, and also many Odontoglossums, Oncidiums, etc., etc., at greatly reduced prices. Write for price list.

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Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.

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Plant your frames this fall with PANSIES that will SELL AT SIGHT. You want the BEST if you keep up with the procession. My strain cannot be surpassed for size, color, or substance of flowers. I know my stock will please, and I am prepared for a big rush.

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"	Floribunda	"	1.00
"	Obconica 2-inch pot plants	per 100,	3 00
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"	Chinensis, white and pink	"	4 00
Begonia Rex		per 100,	$5 $10 and 15 00
Hydrangea Red Branched, per doz. $3; per 100,			25.00

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Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1 00, $2 00 to $10.00 each. Cycas revoluta, 50c to $5.00 and $15 00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII,
DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots strong, 15 to 18 inches $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracaenas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.

BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.

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Fine plants from 3-inch pots $4 per 100, Cash.

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VAUGHAN'S INTERNATIONAL PANSY MIXTURE comprises all the very best German, English and American strains, together with the Giant Bugnot, Cassier and Improved Trimardeau Pansies, and is undoubtedly the best mixture for florists. Pkt. 50c.; ⅛ oz. $1.50; oz. $10.00.

GIANT CASSIER, a choice variety of colors. Pkt. 25c.; ⅛ oz. $1.00.

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CHICAGO PARKS BEDDING PANSIES, White, Black, Yellow, Emperor William, Striped, Snow Queen, Golden Gem, each, per ⅛ oz. 25c.; ¼ oz. 40c.; oz. $1 00.

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CALCEOLARIA HYBRIDA GRANDIFLORA, tigered and selfcolored, finest mixture, pkt. 50c.

HOLLYHOCK, best double white, pink, flesh, yellow, crimson and mixed, each, pkt. 25c.

CARNATION VIENNA DWARF, a very good strain. Pkt. 15c.; ¼ oz. 50c.

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One-half and one-fourth ounce at same rate.

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These plants spread over a space from five to nine inches in diameter.

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The Violets and Carnations will all lift with a very large ball of dirt, consequently suffer very little or nothing in being transplanted.

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ED. AM. FLORIST:—Herewith I send you some leaves of a new geranium (Omaha), which I have grown for two seasons with most satisfactory results. The leaves are larger than those of Mme. Salleroi, with deep sinuses, and show as much if not more white than Mountain of Snow. We have had a wet season, with hot and sultry intervals, and yet this geranium has not damped a particle. I am growing it en masse.

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How long will a smilax bed last? Will we get better strings by replanting now with young plants than we can from an old bed which has been in use for three years?

Which is the best way to propagate the large flowering clematis and when is the proper time? SUBSCRIBER.

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GOOD STRONG PLANTS.	Per 100	Per 1000
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" " "	.50	1 90
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Morus Alba, 1 yr, 1st size, $19 per 10,000 and		2 00
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WELL GROWN STOCK FOR FORCING.

Brides, Papa Gontier, Mermet, Niphetos, Perle des Jardins, Duchess of Albany, Mme. Watteville, Mme. Hoste, Marechal Niel, Safrano, Sunset, and Bon Silene.

This stock is from 2, 4 and 5-inch pots. Plants are strong and have large white roots, and are in splendid condition for immediate planting. Send for sample and special low prices. **Write for my Florist Catalogue of specialties in Flower Seeds.**

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275 Brides, 3-inch pots	at 6 cts.
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75 Bon Silene, 3-inch pots	at 5 cts.

Nice plants

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Perles des Jardins, Mermet, Niphetos, The Bride, La France, M Niel, 2½-inch pots, $5 per 100; 2 inch pots, $4; 100 each C. Mermet, Perle des Jardins, Niphetos, The Bride, 4 inch pots $8. Clotilde Soupert 2-inch $5; Clotilde Soupert 4 inch, $10. Smilax in 3-inch pots, strong, $5

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And to prove this, we give below a table showing number in Crate and WEIGHT of same, which speaks for itself:

Size.	No. in Crate.	Weight.
1¾-inch	3,000	250 lbs.
2 "	2,400	250 "
2¼ "	1,750	250 "
2½ "	1,450	250 "
3 "	1,280	350 "
3½ "	800	350 "
4 "	600	350 "

It will be seen at a glance, that our pots are one third lighter than formerly, and yet we claim that owing to the superior quality of our clay and improved machinery, they are stronger than any pot in the market, and we frankly ask you to make the test. ☞ SEND FOR PRICES.

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A RARE CHANCE TO GET GOOD STOCK CHEAP.

Papa Gontiers, 1,200; La France, Brides and Mermets, 850 of each; Albanies, 300; Safranos and Bon Silenes, 250 of each; Polyanthus, 75. The above in 4-inch pots. 400 Jacks in 6-inch pots. Magna Charta, Capt. Christy, Glorie de Dijon, 300 in 4-in. pots named; mixed, 600 in 3 in. pots, good strong plants. All of the above are strong, healthy stock raised for our own use. Address **F. W. BOLGIANO,** 1444 Corcoran St., WASHINGTON, D. C.



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who furnish samples by mail, postpaid, on receipt of

For one dozen	10c. 2¼	11c. 2½	14c. 3	17c. 3½	22c. 4	40c. 5	60c. 6 in. pots

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Plants Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

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AMERICAN FLORIST CO., Chicago.

Buffalo.

Prospects of a good attendance at Toronto from this city.

Chas. Keitsch's face is radiant. It's a girl and weighs seven pounds.

The local papers have it that W. J. Palmer, Jr., is soon to lead a fair Buffalonian to the altar, and Miss Marie Olin, for years the popular accountant in Long's store, has resigned, to be wedded on the 17th inst. Matrimony is in the air.

Wm. Scott has a fine show of gloxinias now. Fine ones—the envy and talk of the town.

Continued showers and fairly cool weather has made all outdoor blooms plenty, cheap and of good quality.

Trade dwindles each season, more people going away and remaining longer; scarcely any entertaining is done.

As Mr. Craig said of another game, "Great Scott, what a base-ball game it was!" This one was played the afternoon of Saturday, August 1. The opposing forces were the west side and the east side florists. The leading stores were closed for the occasion and the attendance was large. Among the visitors was Walter Mott, of Philadelphia, who graciously acted as umpire. Following is a list of the players:

EAST SIDE.	WEST SIDE.
P, Mesmer	P, Bloy
C, Anderson	C, A. Scott
1st B, W. Milley	1st B, Kromerick
2nd " Troup	2nd " Hazelton
3rd " Bishof	3rd " P. Scott
S S, Jones	S S, "Great Scott"
R F, Mepsted	R F, Buxton
C F, Asmus	C F, Rebstock
L F, Lewis	L F, Nolan

The pitching and catching displayed on both sides would put to blush many professional teams, the players being retired seven times on the one-two-three order; three times but four men faced the bat; five tried it four times, and six—the highest—three times. The west being in the ascendant, the last half of the ninth inning was not played.

The umpire's decisions called forth much foot and leg action of a calibre more vociferous by far than becoming to a guest of Buffalo, and Walter's appeal to the sympathetic managers resulted in relief by W. A. Adams being elected to umpire each alternate inning.

The applause when earned runs were made was loud and lengthy and was only exceeded in volume of sound by the vehement railings, groans and dissenting shouts made against the decisions of the guileless and tranquil umpires. Andy Adams' crippled leg did not incapacitate him a whit for umpiring. Compared with his size he possesses grit quite enough for two umpires.

The Scotts seemed to be the mascots, three of the six runs on the winning side being made by that family. Safe hits were made by both Wm. Scott and Rebstock on their first facing the bat. Mepsted's catch of a hot liner in the second inning was remarkable and is good for six months of glory.

The refreshment tent was well patronized at the close reminding one of a floral display in the hands of a liberal public ten minutes after the closing hour of the show.

A return challenge for the east side is spoken of for the 29th. L. B. D.

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FOR PLANTS.—To make a solution for washing or cleansing purposes—Half-a-Pint of Fir-Tree Oil to ten gallons of water.

For Green and Black Fly, Thrip, American Blight, Wooly Aphis, etc.—Half-a-pint of the Fir-Tree Oil to two or four gallons of water, or two or three tablespoonfuls to the pint.

For Red Spider and Caterpillar—Half-a-pint of the Fir-Tree Oil to two gallons of water, or three tablespoonfuls to the pint.

For Mealy Bug, Brown or White Scale—Half-a-Pint of the Fir-Tree Oil to four or six quarts of water, four to eight tablespoonfuls to the pint.

For Mildew and Blight on Fruit or Foliage—Half-a-Pint of the Fir-Tree Oil to a gallon of water, or six tablespoonfuls to the pint.

Used with warm water it is quicker in its action than when cold is used.

Soft or rain water is necessary, and Applied in Wood, Tin or Pot Vessels.—Galvanized Iron Vessels must not be used.

FOR ANIMALS.—For Skin Diseases and Killing Vermin mix one part of Fir-Tree Oil with three parts of warm water and wet the affected part each day. In some cases it may be used stronger For Ring-worm apply full strength with a brush each day.

FOR BIRDS INFECTED WITH PARASITES.—Put a tablespoonful of Fir-Tree Oil in one quart of warm water and dip the bird in it, taking care that its eyes are protected, hold the bird in one hand for one minute, then dip into clean tepid water; this may be repeated. If necessary a much weaker solution may be used with a spray producer.

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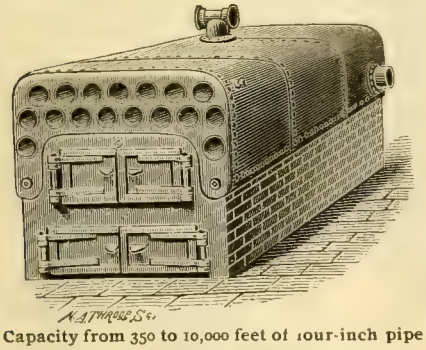
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THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of 1our-inch pipe

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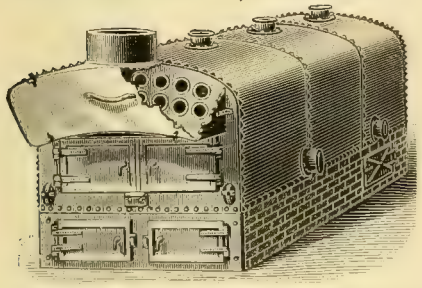
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Greenhouse & Boiler,

41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information

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OF THE UNITED STATES AND CANADA,

1890.

No one in the Trade can afford to be without it.

PRICE, $2.00.

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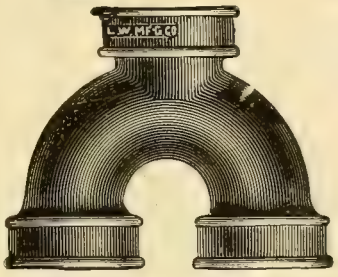
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54 La Salle Street, CHICAGO.

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Greenhouse Pipe and Fittings





Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

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A PRACTICAL ENCYCLOPÆDIA OF HORTICULTURE.

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HAIL Lock the door BEFORE the horse is stolen. Do it **NOW!**

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

CYPRESS GREEN HOUSE MATERIAL

CLEAR CYPRESS SASH BARS

HOT BED AND VENTILATING SASH

JOHN L. DIEZ & CO.

530 North Halsted Street.

CHICAGO, ILL.

THIS PROGRESSIVE AGE

Demands more investments in accessories, tools, so to speak. To-day

LONG'S FLORAL PHOTOGRAPHS,

Commend themselves strong in this line. Designed for the use of Florists in taking orders. Send for list to the publisher.

Dan'l B. Long,

BUFFALO, N. Y.

Mention American Florist.

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A WRITER in a Boston daily speaks of the hollyhock as "the church steeple of the floral world."

AS WE GO to press we learn that Mr. J. M. Samuels has been named as Chief of the Hort. Dep't of the World's Fair, and confirmed by the Board of Control. The local directory will pass upon the nomination at the meeting tomorrow (Friday).

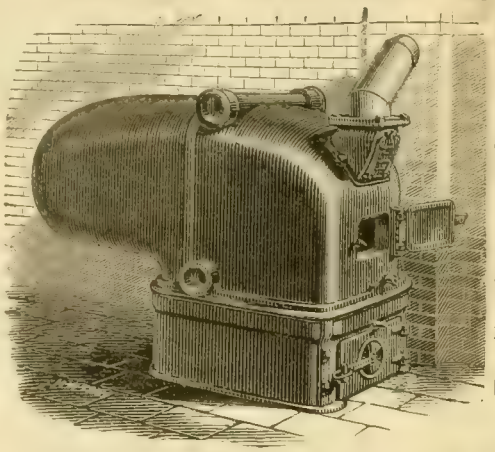
THE twenty-third biennial meeting of the American Pomological Society, which will be held at Washington September 22 to 24 inclusive, promises to be a most interesting session of that body. The city of Washington was selected on the special invitation of the Secretary of Agriculture, and the meetings will be held in the hall of the National Museum.

Express Rates.

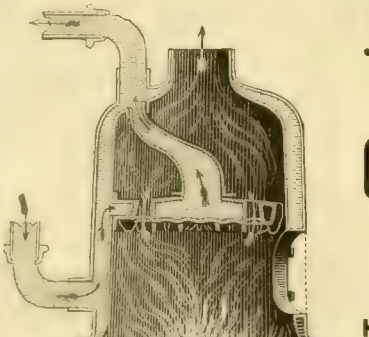
Why is there so little said in regard to the high rates charged by express companies? It is a serious hinderance to the retail dealer, especially in the south and west, where plants have to be shipped long distances. Cannot something be done by the combined efforts of the florists of this United States? At least is it not worth a trial? If we make no demands we cannot reasonably expect the companies to do anything. Let us hear from our brother florists on the subject while at Toronto.

Newport, Ark. WM. M. BOWEN.

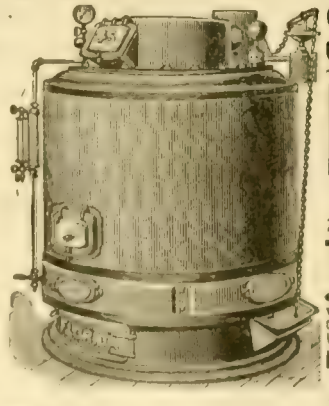
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HORTICULTURAL ARCHITECTURE AND BUILDING.



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233 Mercer St., New York.
Greenhouses Constructed with
Posts, Rafters, Purlins, Sills, Gutters, Columns, and Brackets, all of IRON.
And Glazing Bars, Ventilating Sash and Siding of WOOD.
Estimates for the Heating and Ventilating Apparatus furnished separately if desired.
FIVE PATTERNS OF BOILERS.
Eighteen Sizes.
PERFECT SASH RAISING APPARATUS.
SEND 4C. POSTAGE FOR ILLUSTRATED CATALOGUES.
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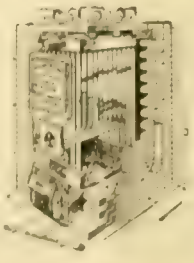
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GREENHOUSE HEATING
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Ventilating Apparatus.
Patentee and Manufacturer of
HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.
☞ Estimates of cost given, and Illustrated Catalogue furnished on application.
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Save Your Coal and INSURE Your PLANTS and FLOWERS
FLORIDA STEAM AND HOT WATER HEATERS
FOR GREENHOUSES.
19 sizes for Steam, 14 sizes for Hot Water, 15 sizes for Soft Coal
THOUSANDS AND THOUSANDS IN USE.
Has a Magazine Feed. Throws out No Gas. Saves 25 per cent in fuel. Gives a uniform heat day and night. Fully warranted in every respect and guaranteed to give satisfaction. Reliable Agents in all the leading cities and towns in the United States. Send for new catalogue. Address
PIERCE, BUTLER & PIERCE MFG. CO.
SYRACUSE, N. Y., U. S. A.
Mention American Florist.

BOLTON HOT WATER HEATER
FOR WARMING RESIDENCES, GREENHOUSES, SCHOOLS, HOSPITALS, ETC.

SCRANTON, PA., Mar. 16, 1891.
Gentlemen:
The Bolton in my greenhouse at Dalton works with the most complete satisfaction; consumption of fuel very light.
I am for hot water first, last and always; think it much better than steam.
Yours truly,
JAS. P. DICKSON,
Pres. Dickson Mfg. Co.



Send for Illustrated Book "WARMTH FOR WINTER HOMES."
DETROIT HEATING AND LIGHTING COMPANY,
Manufacturers also of the COMBINATION GAS MACHINE.
FACTORY AND HOME OFFICE, 550 WIGHT STREET, DETROIT
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NEW YORK, BOSTON, CHICAGO, ST. LOUIS, NEW ORLEANS.
CONTRACTORS FOR COOK COUNTY:
BURNETT & SMITH CO., CHICAGO.
Mention American Florist.

THE AMERICAN FLORIST

CONVENTION SUPPLEMENT.

Vol. VII. CHICAGO AND NEW YORK, AUGUST 13, 1891. Supplement to No. 167.

Principal Toronto Hotels.

NAME.	CAPACITY.	RATE PER DAY.
Queens Hotel, *Headquarters*, 78 to 92 Front St.	300	$3.00 to $4.00
Rossin House, King and York Sts.	250	3.00 to 4.00
Walker House, Front and York Sts.	250	2.00 to 2 50
Palmer House, King and York Sts.	250	2.00
Arlington Hotel, King and John Sts.	200	3.00 to 4.00
St. James Hotel, 15 York St. (opp. station)	50	1.50
Albion Hotel, Market Square.	300	1.00
Elliott House, Church and Shuter Sts.	150	2.00
Hotel Metropole, King and York Sts.	75	2 00
Avondale Hotel, Simcoe and Wellington.	50	1.50
Richardson House, King and Spadina.	100	1.50
International Hotel, Front and Simcoe.	200	1.50
Black Horse Hotel, Front and George.	125	1.00
Russell House, 215 Yonge St.	50	1.50
Power House, King and Spadina.	90	1.50
Schiller House, 120 Adelaide St. E.	50	1.00
Lakeview Hotel, Parliam't and Winchest'r.	75	1.50
Keachie's Hotel, 30 King St. W.	50	(European)
Empress, Yonge and Gould.	100	1.00 to 1.50

The majority of the above hotels are in the business portion of the city, the center of which is about one and a half miles from the convention hall in the Horticultural Gardens. Street cars pass the doors of all of them, making communication between hotel and hall quite easy.

Members wishing to secure accommodation before hand will do well to communicate at once with Mr. J. H. Dunlop, 1 McKenzie avenue, Toronto, Ont.

Names and Addresses of Chairmen of Committees of Toronto Gardeners' and Florists' Club for S. A. F. Convention, August, 1891.

Reception Committee—Mr. John Chambers, Superintendent Parks and Gardens, St. Lawrence's Hall, Toronto, Ont.

Trade Exhibit Committee—Mr. Thomas Manton, florist, Eglinton, Ont.

Entertainment Committee—Mr. W. J. Laing, 411 Huron street, Toronto, Ont.

Ladies' Committee—Mrs. Fraser, florist, Spadina Crescent, Toronto, Ont.

Introduction Committee—Mr. F. G. Foster, florist, Hamilton, Ont.

Decoration Committee—Mr. C. Arnold, florist, 521 Queen street, W., Toronto, Ont.

Finance Committee—Mr. J. H. Dunlop, florist, corner of Bloor street and McKenzie avenue, Toronto, Ont.

Printing and Badge Committee—Mr. S. E. Briggs, of the Steele Brothers Co., corner of Front and Jarvis streets, Toronto, Ont.

Bureau of Information—Mr. George Vair, care Sir D. S. McPherson's Chestnut Park, Toronto, Ont.



FF FOR TORONTO

Boston to Toronto.

Very low rates have been secured over the Canadian Pacific railroad, and no certificates will be required in order to secure reduced fares. The route is over the southern division of the Boston & Maine (formerly the Boston & Lowell) through Lowell, Nashua, Manchester and Concord to Newport, Vt., and thence by Canadian Pacific railroad via Montreal, where it is expected that the Montreal delegation will join the Boston party and accompany them to Toronto. The party will leave Boston at 9 A. M. Monday, August 17, going through without stop, and arriving at Toronto early Tuesday morning, the opening day of the convention.

Philadelphia to Toronto.

The Florists' Club of Philadelphia has decided to go by the Pennsylvania road via Lancaster, Harrisburg, Williamsport, Watkins Glen, Niagara Falls and through by all rail to Toronto. A special parlor and sleeping coach, together with a combination baggage and passenger car, will take the party through without change.

Delegates from Baltimore, Washington and points south can join the party at Harrisburg.

The train will leave Broad street station 8:50 A. M. Monday, Aug. 17. The fare will be full rate going and one-third returning on presentation of certificate in the regular way.

New York to Toronto.

The New York delegation to the Toronto convention will take the train leaving New York at 5 P. M., August 17, on the West Shore railroad. The route will be to Lewiston on the Niagara river by rail, thence down the Niagara and across the lake by boat to Toronto, arriving there at 10:30 A. M. on Tuesday. Fare from New York and return $12.70, on the certificate plan.

Chicago to Toronto.

The rate from Chicago to Toronto and return, via the Niagara Falls Short Line and the Canadian Pacific, will be $16.60. Train leaves Dearborn station at 3 P. M. August 17, and reaches Toronto at 8:45 A. M. on the 18th. Special sleepers will be provided, and there will be no change of cars. Florists in the west and northwest are invited to travel with the party from this point.

Society of American Florists.

PROGRAMME TORONTO MEETING.

TUESDAY, AUG. 18, 1891.

FIRST DAY—Opening Session, 11 o'clock, A. M.

ADDRESS OF WELCOME—RESPONSE, JUDGE C. W. HOITT, OF NASHUA, N. H.—PRESIDENT NORTON'S ADDRESS—REPORTS: SECRETARY; TREASURER; STANDING COMMITTEES AND SPECIAL COMMITTEES—MISCELLANEOUS BUSINESS—DISCUSSION OF PRESIDENT'S ADDRESS.

There will be a delegate meeting of gardeners' and florists' clubs at 2:00 P. M.

FIRST DAY—Evening Session, 7:30 o'clock.

ESSAY—The Future of Floriculture in America, W. A. MANDA, Short Hills, N. J.

Review of New Plants—WM. FALCONER, Glen Cove, N. Y.

The Question Box. (*See below.*)

WEDNESDAY, AUGUST 19, 1891.

SECOND DAY—Morning Session, 10 o'clock.

Selection of place of meeting and nomination of officers for 1892.

ESSAY—Sub-Tropical Bedding, DAVID ALLAN, Mt. Auburn, Mass.

ESSAY—Aquatic Plants, BENJ. GREY, Malden, Mass.

ESSAY—Begonias; Flowering and foliage; their value as bedding and decorative plants, JOHN CHAMBERS, Toronto, Ont.

Election of state vice-presidents by state delegations after close of morning session. The bowling contest will take place on this afternoon, place and hour to be announced hereafter.

SECOND DAY—Evening.

The evening of Wednesday, August 19, will be devoted to the annual meetings of the following auxiliary societies:

The Florists' Protective Association will meet at 7 P. M. H. B. BEATTY, Oil City, Pa., sec'y.

The Florists' Hail Association will meet at 8:30 P. M. JOHN G. ESLER, Saddle River, N. J., Sec'y.

THURSDAY, AUGUST 20, 1891.

The American Chrysanthemum Society will meet at 9 A. M.

THIRD DAY—Morning Session, 10 o'clock.

Election of officers.

ESSAY—Credits, H. B. BEATTY, Oil City, Pa.

ESSAY—Store Trade, Wm. H. Long, Boston, Mass.

ESSAY—Winter Flowering Plants Suitable for Decorations, W. H. TAPLIN, Holmesburg, Pa.

THIRD DAY—Evening Session, 7:30 o'clock.

ESSAY—Carnations to Date, FRED DORNER, Lafayette, Ind.

Question Box. (See below.)

Final Committee Reports.

QUESTION BOX.

The following subjects for the Question Box have been already sent in, and together with those placed in the box during the sessions will be assigned to gentlemen competent to reply to them on

the evenings of the first and third day. The questions will be grouped as nearly as possible, so that subjects of general interest to the trade will be assigned to the first evening. Strictly cultural questions and those relating to mechanical appliances in greenhouses will be assigned to the third evening. Five minutes will be allowed for each reply.

SUBJECTS.

Should Florists Charge for Boxing and Packing?

How Can We Best Profit by the Demand at special seasons?

Is Miscellaneous Advertising in the Retail trade Advisable?

How to Successfully Manage Floral Exhibitions?

What Are the Best Twenty Foliage Plants and the Best Twenty Flowering Plants for Decorative Gardening.

What are the Best Twelve Companions to India Rubbers and Latanias for House Decoration?

New Ideas in Greenhouse Construction and Heating?

Best Method of Tempering Hydrant Water?

Best Method of Distributing Liquid Manure?

Growing Roses for Summer Use?

The Best Varieties of Gladiolus for Forcing?

How to Master the Green Fly?

How to Mend a Rubber Hose?

FRIDAY, AUG. 21, 1891.

FOURTH DAY,

An excursion on Lake Ontario by invitation of the Gardeners' and Florists' Club of Toronto.

The Entertainment Programme.

TUESDAY, Ladies' Drive, Etc.

Hacks will start from Queen's Hotel at 2 P. M. sharp, pass principal streets, public buildings, private residences, etc., leaving the visitors on the ferry wharf. Ferries will take them to the Island Park, where light refreshments will be served and a military band will be in attendance. The ferries run to and fro every quarter of an hour.

WEDNESDAY, Garden Party at Rosedale, tendered by Alderman Hallam.

Members will take the Sherbourne street cars at 2 P. M., and ride to the end of the track. The cars start from the corner of York and Front streets near the Queen's Hotel, running up York to King and along King to Sherbourne, passing close to all the principal hotels. From the end of track to Alderman Hallam's residence 'busses will convey all who wish to ride the remaining distance of three-fourths of a mile.

THURSDAY, Bowling Contest.

At the Victoria Club, 265 Huron street, at 2 P. M. Take McCaul street or Spadina and Bloor or Carlton and College cars.

FRIDAY, Entertainment Tendered by the City and the Gardeners and Florists of Toronto.

Steamboat will leave wharf at foot of Yonge street at 11 A. M. sharp, and after a sail on the lake will leave the members at the exhibition grounds, where lunch will be served in the Annex building, after which there will be games of cricket, base ball and quoits. King street or Queen street cars will convey passengers back to the city. The exhibition grounds are two miles from center of city.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.



THE PRIZE CUP OFFERED BY THE GARDENERS' AND FLORISTS' CLUB OF TORONTO IN THE BOWLING TOURNAMENT CUP IS SHOWN REDUCED ONE-HALF IN SIZE.

The Bowling Tournament.

The bowling tournament will take place Thursday afternoon at 2 o'clock at the Victoria Club building, 265 Huron street. The contest between the competing teams promises to be spirited and it will undoubtedly furnish much entertainment to onlookers. To reach the club building take McCaul street, or Spadina and Bloor, or Carlton and College cars.

The teams will be composed of five or six men from each club, the number to be determined at the opening of the contest. The Tournament will be conducted under the supervision of Mr. John N. May, who upon the invitation of the Toronto club has kindly consented to act as manager of the affair.

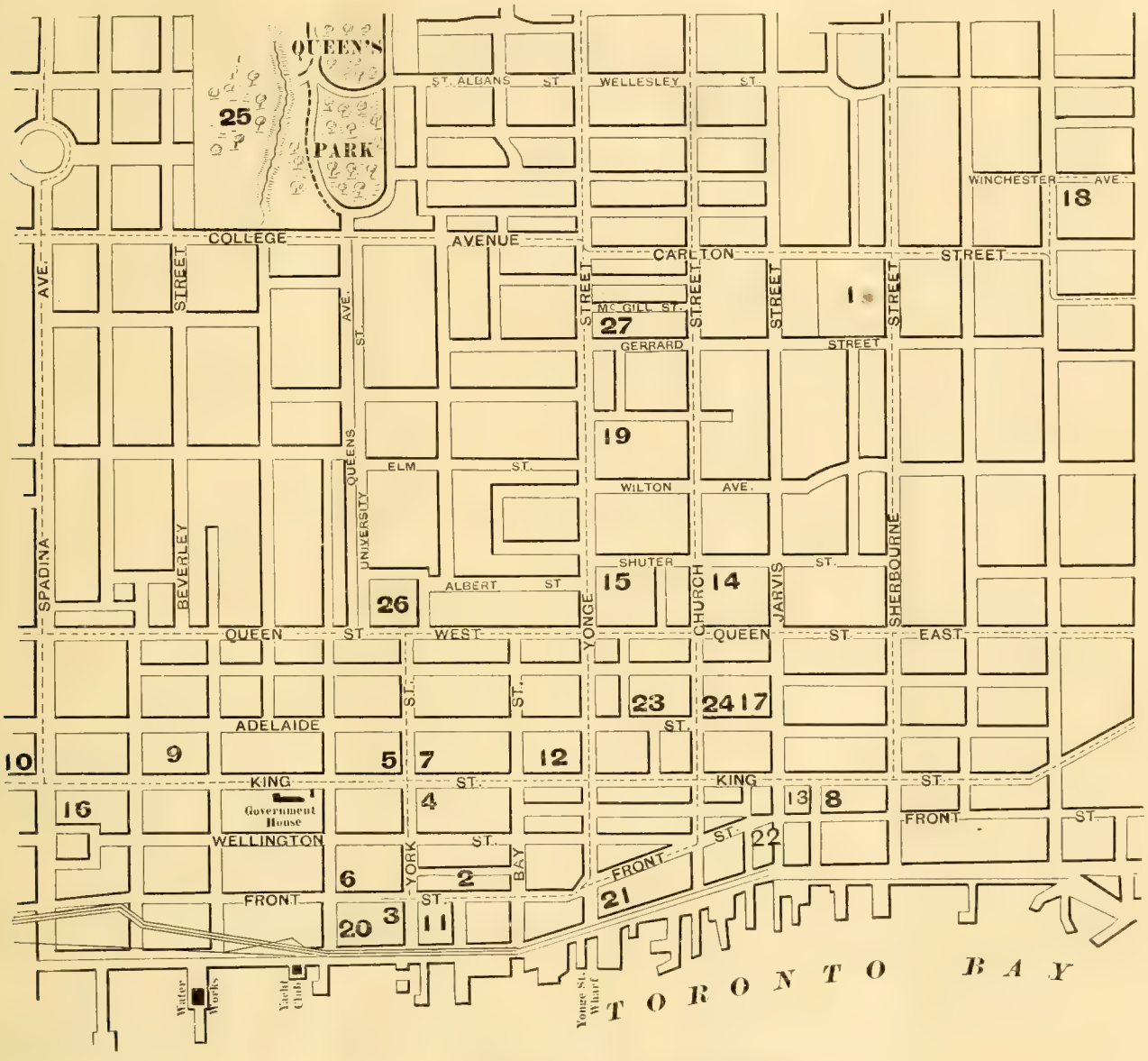
The Toronto club offers as a prize to the winning team the beautiful cup of which we present an engraving, the picture showing the cup reduced one-half in size.

THE RULES.

Each club to roll two full games of ten frames each, changing alleys each game. At the close, the club having made the highest total score shall be the winner of the cup. In event of any two clubs making a tie of the highest scores, each club so tying shall roll one full game each to decide the game and the club making the highest score shall be the winner. The general rules governing the whole will be what are known as the revised rules of the National Bowlers' Association.

Each club entering must elect or appoint a captain for their team, with whom all disputes (if any) regarding the breaking of rules, etc., will be settled by the umpire.

Any further information desired may be



MAP OF CENTRAL PART OF TORONTO.

had from the manager of the tournament, Mr. John N. May, who may be seen at the Queen's Hotel.

During the afternoon Mr. W. J. Laing will dispense "bannoes" and lemonade at his greenhouses, three blocks from the bowling alleys and invites all to partake of his hospitality. We give the word "bannoes" as received in a late telegram. It may be some kind of fruit, a prohibition drink, or a "strike" ball, but whatever it is, it must be well worth discussing when W. J. L. telegraphs us to "hold the press a minute" in order to make the announcement. Our advice to the bowlers is don't "go to press" until you have had some of the "bannoes." They may be the mascotte you need.

DELEGATES from points in the territory of the Central Passenger Association (west of Pittsburg and east of St. Louis) should not forget that their railroad certificates must be vised by the representative of the association as well as by Secretary Stewart. The representative of the association will be at the convention hall during the sessions of the society and at the Queen's Hotel at other times, on Thursday and Friday. The certificates will be valueless without the signature of this representative of the railroads which are members of the Central Passenger Association. Certificates from points outside the territory of this association need only the signature of Secretary Stewart.

Key to Map.

1. Horticultural Gardens (Convention Hall.)
2. Queen's Hotel (Headquarters).
3. Walker House.
4. Rossin House.
5. Palmer House.
6. International Hotel.
7. Hotel Metropole.
8. Black Horse Hotel.
9. Arlington Hotel.
10. Richardson House.
11. St. James' Hotel.
12. Keachie's Hotel.
13. Albion Hotel.
14. Elliott House.
15. Russell House.
16. Power House.
17. Schiller House.
18. Lakeview Hotel.
19. Empress Hotel.
20. Union Depot.
21. Board of Trade.
22. City Hall.
23. Postoffice.
24. Public Library.
25. Queen's Park and University.
26. Law Courts (Osgoode Hall.)
27. Young Mens' Christian Association.
.... Street car Lines.

Boston Gossip.

Boston will show up in fine style at Toronto. Everybody is going. And there will be an unusual number of ladies in the party. This will help to make the company happy, especially Zirngiebel. All the heavy men will be there, Norton, Cox, Comley, Ewell and lots of 200 pounders. Warren Ewell is proud of his agility as well as his strength. He says, "there are few men as heavy as I am who will weigh as much."

It is whispered that if it were not for the great bowling contest the delegation would be smaller by considerable. But never mind what the attraction may be, so long as we get them. I should not wonder if the sensation of getting under the old flag just once more is a big magnet for some of the boys, even if they have, many of them, thrown off their allegiance to Her Majesty and placed themselves under the protection of the Stars and Stripes for the remainder of their lives.

Perhaps there is a little local pride too, for is not the worthy president a native Boston boy? And then there are to be essays by Davie Allan on "Sub-tropical Bedding," by W. H. Long on "Store Trade" and by

Ben Grey on his favorite subject, "Aquatics." So with all these inducements is it surprising that there will be nobody left at home except those who unfortunately cannot go and the few old moss backs and scoffers who are always to be found in any well regulated community?

It looks as if President Norton would be fully recovered from that lameness by the time the train is ready for Toronto. It has been a source of much annoyance to him and amusement to his friends, who don't often get such a good opportunity to chaff him. But he says "he don't care so long as it happened at home; that's all that saved me."

That August meeting of the Gardeners' and Florists' Club was not a bad one.

Lawrence Cotter was in a generous mood and wanted the Club to pay all the expenses of the delegates to the Florist Club meeting at Toronto. But Lawrence's eloquence was unavailing, for he was promptly voted down, and the delegates will pay their own bills.

Chairman Elliott, of the late excursion committee, got his report in in his usual leisurely manner and it was accepted without comment. Elliott takes his time and is never in a hurry, but he generally manages to get there all the same.

Skipper McCarthy, one of the heroes of the recent boat episode, came in late, but was soon engaged with Warren Ewell in an animated argument as to the value of the latter as ballast on that memorable occasion. Tom Cox refused to be convinced of the wisdom of taking the ladies on the annual excursion, but he had his side of the argument all to himself. Lit-'Lijah Wood was skipping around as nimble as ever and couldn't let chrysanthemums alone for five minutes at a time.

A letter from J. N. May, anouncing that he had been entrusted with the duty of managing the coming bowling contest, was read, and gave much encouragement. Sam Coleman, chairman of the bowling committee, reported progress and gave a good account of phenomenal scores that have come to be the regular average with some members of his team.

I wonder what Elijah Wood meant by addressing President Foster as "Noble Grand." Perhaps he will tell us some time.

W. J. S.

THE HEADQUARTERS of the AMERICAN FLORIST are Parlor B, Queen's Hotel. Call on us, and leave your card when you call.

THE WASHINGTON delegation will come with instructions to invite the S. A. F. to hold the next convention at the National Capital.

THE MEETING of delegates from Florists' Clubs will be held at the Pavilion (convention hall) on Tuesday afternoon at 2 o'clock.

	Per 100
Adiantum Cuneatum, 3-in.,	$8.00
" " 2 1-2 in.,	6.00
Ferns in variety, 3-in.,	8.00
Fittonia Argyroneura, 2-in.,	3.00
Clerodendron Balfourii, 2-in.,	4.00
Grevillea Robusta, 4-in.,	10.00
Begonia Metalica, $4, $6 and	10.00
Smilax, strong, 3-in.,	3.00

TUBEROUS BEGONIAS FOR FALL DELIVERY.

PROBST BROS. FLORAL CO.,
1017 Broadway, KANSAS CITY, MO.
Mention American Florist.

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See our EXHIBIT at Toronto.

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FREESIAS. These we have been shipping since July 15. Our bulbs are select grade only.

LILIUM HARRISII. First class Bulbs in all grades now ready. Let us have your orders. Look at samples.

ROMAN HYACINTHS. Full stock ready now, earlier than ever. The bulbs are Extra fine and up to size.

L. CANDIDUM. These we expect by August 20. Fine, home-grown bulbs are ready now.

DUTCH BULBS. Will be ready about September 15–20 in full assortment. Order now.

LILY OF THE VALLEY. Will arrive in November. Special rates on best Hamburg and Berlin pips.

PRIMULA AND CINERARIA SEED. Finest strains. Orders booked at Toronto will be mailed at once.

PANSY SEED. VAUGHAN'S "INTERNATIONAL" NEW CROP SEED. This you can buy at our exhibition stand at Toronto. IT IS UNEQUALED.

ROSES. Get our prices on forcing stock (4-inch), also Clotilde Soupert, Mme. Pierre Guillot, Waban, and other Novelties. Clematis, Imported Roses, Azaleas. Visit our greenhouses.

PALMS, DRACENAS, ETC. We have an excellent stock of all the best kinds, including D. Lindeni. Visit our greenhouses.

FLORISTS' SUPPLIES. We are Headquarters on everything of this class, and make prices lower than ever.

CHRYSANTHEMUMS. Splendid stock of all best old and new sorts. Visit our greenhouses.

HOLLY AND GREEN. Book orders with our Agents at the Toronto meeting and you WILL GET IT if it grows.

OUR MOTTO: "All Florists' Stock in Season."

VAUGHAN'S BULBS.

5,000 POT GROWN CYCAS REVOLUTA.

SPLENDID YOUNG STUFF, WITH CLEAN, RIPE FOLIAGE.



10 AT 100 RATES.

Bulbs with one to two leaves 5 to 9 inches long, $25 per 100. Larger bulbs with one to two leaves 8 to 12 inches long, $50 per 100. Bulbs with two to three leaves 8 to 12 inches long, $75 per 100. Bulbs with three to five leaves 10 to 14 inches long, $100 per 100. Bulbs with three to six leaves 10 to 16 inches long, $150 per 100. Bulbs with four to six leaves 14 to 18 inches long, $200 per 100. Bulbs with six to seven leaves 16 to 20 inches in length, $300 per 100. Larger plants with from 10 to 25 perfect leaves 20 to 30 inches in length, from $10 to $15, $20, $25, $30, $40 and $50 per pair.

—o—

DION EDULE Similar to Cycas, very hardy and handsome palm, one to two leaves 6 to 10 inches long, $15 per 100. Stronger plants, one to two leaves 8 to 12 inches long, $25. Larger bulbs three to four leaves 15 to 20 inches long, $1 each.

Sample plants of the above sizes can be seen at the Florists Exhibit, Toronto.

Address JOHN G. HEINL,
TERRE HAUTE, IND.

Mention American Florist.

Please write for Special Quotations on

HYACINTHS, TULIPS.

Full Stock of Bulbs in season.

"QUALITY IS THE BEST TEST OF PRICES."

READY NOW:

LIL. HARRISII, all sizes.
ROMAN HYACINTHS.
LIL. CANDIDUM.
FREESIA REFRACTA ALBA.
CALLA BULBS.

NEW CROP FLOWER SEEDS:

Pansy, Primula, Cyclamen, Mignonette, Etc. Etc.

Choicest Strains. True to Name.

CANE STAKES. FERTILIZERS. SPHAGNUM MOSS, ETC.

We are Headquarters for

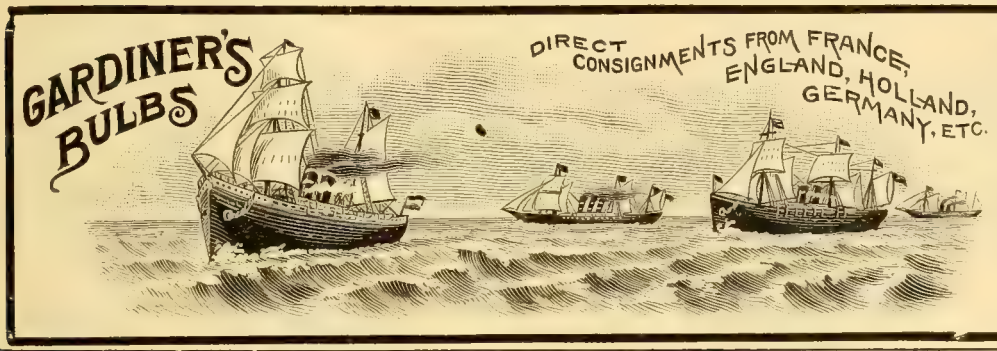
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Florists' Letters, Etc.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements promptly prosecuted. Beware of imitations. Sample and catalogue free.

2-inch Letters, $3 00 per 100. Postage, 15c. per 100.

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A FULL LINE OF SAMPLES AT THE CONVENTION.

Surplus Stock Cheap.

75 Mermets, 3-in.
50 Bons, 4-in
50 Duchess, 3-in.
60 La France 2½-inch
80 Brides, 3-in
40 Safrano, 4-in.
80 American Beauty, 4-in.
50 Niphetos, 3-in.
50 Bons and Safranos mixed.

2 1-2-in, $4; 3-in, $5; 4-in, $7 per 100.

200 Violets, Swanley White and Marie Louise, field grown clumps $7 per 100.

200 Bouvardias, white, pink, red, coral, etc., field grown, $7 per 100.

All grown for forcing and are strong, clean, healthy stock for immediate planting. Send for samples and see for yourself quality of stock.

CRABB & HUNTER,
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TUBEROUS BEGONIAS A SPECIALTY.

Come and see Griffin's Begonia field in full bloom—Singles and Doubles—and judge for yourselves.

Thomas Griffin,

"OASIS NURSERY." WESTBURY STATION, LONG ISLAND.

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30,000 VIOLET PLANTS, MARIE LOUISE, fine plants, free of disease. Prices on application.

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Brethren of the Convention S. A. F. we are growing

CALADIUM ESCULENTUM AND PEARL TUBEROSES.

Crop now promises fine. Prices on application. DIONEA MUSCIPULA and SARRACENIAS, with other native plants, at reasonable rates.

JAMES M. LAMB, Fayetteville, N. C.

SMILAX.

Strong, healthy plants, in 3-inch pots, ready for planting, $4.00 per 100.

Address JAS. MILLEY,
346 Masten Street, BUFFALO, N. Y.



A MIGHTY EFFORT FOR THE CUP.

RENEW YOUR subscription while at the convention.

MR. G. E. BRIGGS, chairman of the Printing and Badge Committee, is going to decorate the "boys" with a very pretty and neat badge.

THOSE WHO don't roll on Thursday will probably roam as "*chacun a son gout.*" There will be no "rolling home in the morning boys."

MR. GEO. VAIR is the "Bureau of Information," the club intends making him conspicuous by a large badge back and front, like the sandwich men, (if he doesn't object).

IT IS WHISPERED that Mr. Harry Dale intends running special trains out to his establishment at Brampton during convention week. Mr. D. has been making very extensive additions to his establishment this year.

THE BOWLERS are likely to have a good time at the Victoria Club Alleys, Huron street. It is situated in the residential part of the city. Everything connected with the Victoria Club is done in good style. Play begins at 2 P. M. Thursday, the 20th.

Send for Catalogue of

EVERYTHING FOR THE TRADE

IN

BULBS, PLANTS, NURSERY AND FRUIT TREE STOCKS.

C. H. JOOSTEN, Importer,

3 Coenties Slip, NEW YORK.

EVERY FLORIST SHOULD HAVE A COPY OF

OUR TRADE DIRECTORY.

AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

A BIG DEAL.

We have just received per Steamer "Neustria" 31 Cases containing

15,000 BLACK CALLAS.

also called **Arum Sanctum, and Solomon's Lily.** This shipment places us in control of the entire available stock of this valuable variety. Last year not one-tenth of the demand could be supplied, and yet dry bulbs were catalogued at **$2 each.**

It is a most magnificent flower, over a foot long and five to six inches wide; color the richest purple-black imaginable, while the spadix which rises to a height of 10 to 12 inches is as black as soot. The flowers are **DELIGHTFULLY FRAGRANT,** and as freely produced as the ordinary White Calla. If potted now will bloom before Christmas.

PRICE, $40 PER 100; $6 FOR 12.

Send for Wholesale List of some bulbs not offered by others in the trade.
Also for Catalogue of **Cacti.**

A. BLANC & CO., Philadelphia, Pa.

ELECTROTYPES FOR ILLUSTRATING CATALOGUES. Send for sample sheet and list of catalogues, **A. BLANC, Philadelphia, Pa.**

WHY You Should Grow Mushrooms.
Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.
During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.
Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or outhouses, in the open field or in mushroom houses.

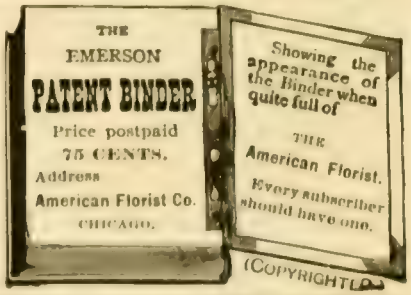
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First get spawn that will grow. It must be fresh, well spawned, and in good condition. **Gardiner's Celebrated English Mushroom Spawn** is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, **"Mushrooms for the Million,"** Mailed free. **Falconer's "Mushrooms and How to Grow Them."** Published at $1.50. (Gardiner's price $1 35 post free.) **Robinson's "Mushroom Culture,"** 50 cts. postpaid.

GARDINER'S ENGLISH MUSHROOM SPAWN.
John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, $3.00 per 100 lbs. Special rates to large growers. Address all correspondence to **21 North Thirteenth Street,** Philadelphia, Pa.

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Excelsa and Excelsa glauca.

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SURPLUS STOCK OF ROSES FOR WINTER FLOWERING

WHICH WE OFFER VERY CHEAP, UNTIL SOLD.

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Grown in 3½-inch pots.

Our stock of these is in exceptionally fine shape, very healthy and in the best possible condition for planting. It is the same stock we use for our own planting, but grown in excess of our own wants. They are entirely free from mildew. The American Beauty is free from black spot, and all are in perfect health and perfect condition in every respect. Buyers will find it to their advantage to inspect our stock before purchasing. Write for prices.

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We obtained first prize, two consecutive days, above all competitors for our exhibit of "American Beauty" at the flower show of the New York Florists' Club, held at the Lenox Lyceum in New York City, in April.

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HYBRID PERPETUAL ROSES for FORCING

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We will have this fall an immense stock of **ROSES**, 1 year budded on Mannetti, all of our own growing, consisting largely of the following varieties, which are mostly suitable for forcing:

ALFRED COLOMB, AMERICAN BEAUTY, ANNE DE DIESBACH, BARONESS ROTHSCHILD, COUNTESS OF OXFORD, EUGENIE VERDIER, FISHER HOLMES, EARL OF DUFFERIN, GLOIRE DE MARGOTTIN, JOHN HOPPER, LADY HELEN STEWART, MME. GABRIEL LUIZET, MAGNA CHARTA, MARSHALL P. WILDER, MRS. JOHN LAING, PAUL NEYRON, PIERRE NOTTING, ULRICH BRUNNER, VICTOR VERDIER, and other popular varieties.

This is a rare opportunity for florists and others to secure extra fine plants at low prices.

Correspondence solicited. Secure the varieties you want by ordering early. Rose Catalogue mailed free to any address.

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Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Ben Silene, Souv. d'un Ami, Cook, Mme. Cusin, Mme. Watteville, La France.

3-inch pots, $7.00 per 100; $60.00 per 1,000.

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Hinze's White, Silver Spray, Fred Johnson, Orient, Portia, the Century, Mrs. Cleveland and Grace Wilder.

1st size, $8.00 per 100; $70.00 per 1000; 2d size, $6.00 per 100; $50.00 per 1000.

FRED CREIGHTON, a fine pink, $10.00 per 100.

Violets.

Swanley White, $6.00 per 100; Marie Louise, 1st size, $8.00 per 100; $75.00 per 1000; 2d size, $6.00 per 100, $55.00 per 1000; 3d size, $5.00 per 100; $45.00 per 1000

Our carnations and violets are strong, full grown plants and perfectly healthy, ready for delivery September 15.

SMILAX. Good strong plants, $3.00 per 100; $25.00 per 1,000.

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PRIMULA OBCONICA.

I have a splendid lot of this beautiful primula in 2½-inch pots, for which I will take $3 per hundred, Cash. Address

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Water Hyacinths.

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Extra fine plants $1 per doz. Just the time to work up a stock. Easily propagated. Sells at sight. Address

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50,000 FEET OF GLASS.

CARNATIONS,
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CHRYSANTHEMUMS,
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CHOICEST ROSES A SPECIALTY.

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Two Hitchings hot water boilers No. 18. They have been in use only a short time and are in first class condition. Also 1000 feet of Hitchings' 4-inch pipe. Will make a very low price for cash. Write us for terms.

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Summer Propagation.

Two years ago, in getting up stock of my new white carnation "Mrs. Fisher," I rooted several thousand cuttings in July and August. I put the cuttings in boxes of sand, and set them on the ground in a place exposed to the sun, convenient to look after them, shaded with muslin frames, raised so as to allow free circulation of air during the day, and removed at night and on cloudy days. They were watered freely several times a day in fair weather, the boxes of sand being well drained. About 90 per cent of the cuttings rooted in six weeks, of those taken from the greenhouse. Out door cuttings of the same variety failed almost entirely. I have rooted rose and chrysanthemum cuttings in the same way. S. F.

Plants for the World's Fair.

In the AMERICAN FLORIST for July 16, my friend, John Thorpe, draws attention to the fine specimen azaleas exhibited by Messrs. Veitch and Turner in England from 1862 to 1866. Those plants I well remember and quite agree with Mr. Thorpe that it is worth living half a century to see such plants. Mr. Thorpe also states that we must have some good azaleas at the World's Fair. I think Mr. Thorpe will quite agree with me that it would be a grand addition to have some fine specimen roses grown in pots similar to those that used to be exhibited at the London shows by Messrs. Turner, Lane and Paul, six to eight feet high and from four to six feet across. Such would certainly be grand objects for the World's Fair. JOHN SMITH.

Bayside, L. I.

FOR FALL 1891

I offer more than

1,500,000

Lily of the Valley Pips,

Three Years Old, BEST ASSORTED.

Strong and very capable to blow, of the best kind for forcing—true Berlin species, being grown in sandy soil, at

26 Marks per 1000.

Safely packed in cases of 2500 pieces, free on board at Hamburg.

Price by Wholesale on Application.

Terms of payment, April 15, 1892, by reference. The best instructions for forcing by request and gratis. I have planted with Lilies approximative ten acres.

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CHOICEST QUALITY AND STRAINS OBTAINABLE.

	oz.	⅛-oz.	¼-oz.	½-oz.	1-16-oz. pkt
Trimardeau, choicest French mixed, unsurpassed in brilliancy of color and size of flowers, some measuring from 3 to 4 inches across.					
per lb., $25 00; per ½ lb., $15 00	$2 50	$1.50	$1.00	$.75	$.50 $.25
Same, golden yellow	3 00	2.00	1.50	1.00	.75 .25
Same, purple				1.50	1.00 .25
Odier, or Imperialis, Prize Pansies, 3 and 5 blotched, extra	4.00	2.50	1.50	1.00	.75 .25
DE VEER'S CHOICE MIXED, composed of the best strains and varieties of my importation	4.00	2 50	1.50	1 00	.75 .25
Bugnot's, new, spotted, large flowering Show Pansies, somewhat smaller than Trimardeau, but of even more exquisite markings and richer colors, pronounced by many the finest strain produced yet. This variety produces few seeds, and is yet very scarce	6.00	4.50	3.00	2 00	1.50 .50
Cassier's, 3 and 5 blotched, Giant, extra fine	6 00	4.50	3 00	2 00	1.50 .50
Roemer's, new 5 spotted Giant, producing enormous flowers					50
" " striped " " " "					50
Improved Large Flowering, (fine strain), mixed	1 50	1 00	.65	.45	.30 .20
Black tinted golden bronze; white, pure; yellow, pure; each	1.00	.75	.50	.30	.20 .15
Light bronze; dark bronze; Emperor William; blue	.75	.50	.30	.20	.15 .10
Faust, King of the Blacks, fine for bedding; Lord Beaconsfield, purple	.75	.50	.30	.20	.15 .10
Mahogany (rubra); Prince Bismarck, brown and golden bronze marbled; quadricolor; white; yellow; superior quality, mixed; each	.75	.50	.30	.20	.15 .10
Fine German mixed	.50	.35	.25	.15	.10 .05
Meteor, novelty of 1891, reddish brown					50
Peacock, beautifully blotched					25

	Per pkt.
CINERARIA.	
Hybrida, good mixed, ⅛ ounce, $1	$.25
" grandiflora, choicest mixed, 1,000 seeds, 75 cents	.50
" grandiflora dwarf, choicest mixed, 1,000 seeds, 75 cents	.50
" grandiflora kermesina, novelty 1891	.50
" choicest double mixed, 1,000 seeds, $1	.50
PRIMULA.	
Sinensis, fringed, fine mixed, 1,000 seeds, $1	.20
" " extra mixed, 1,000 seeds, $1.50	.25
" " ten varieties, each	.25
" double fringed, mixed, 100 seeds, 80 cents	.30
" " " five varieties, each	.30

TERMS CASH. For other Seeds, Fall Bulbs, Florists' Supplies, Imported Nursery Stock, etc., write for Catalogues, if not yet received.

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GARDINER'S SUPERB CHINESE PRIMULAS.



The Chinese Primula has long been a favorite florist's flower, and it has never been seen in greater perfection than now—some very rare and remarkable varieties having been produced within the past few years. Our strain is from a celebrated European specialist, and is acknowledged to be superior to all other strains now on the market. The many flattering testimonials we have received warrants us in recommending this strain very highly.

	100 seeds.	500 seeds.	1000 seeds
Choicest Fringed (not fern leaved), beautiful colors,	.50	$2.00	$3.50
Choicest Fringed (fern-leaved), beautiful colors,	.50	2.00	3.50

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21 North 13th St., Philadelphia, Pa.,

JOHN GARDINER & CO.

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Trade list of Special Strains Flower Seeds for florists on application.

PAPER SEED BAGS

Samples sent to Nurserymen, Florists and Seedsmen.

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MANUFACTURERS,

61 Ann St., NEW YORK.

Zirngiebel New Giant Pansies.

Huge jewels of velvet and gold.—Boston Transcript.

The Result of Forty Years' Experience at Growing Pansies.

Zirngiebel New Giant Pansies have opened a new era in Pansies. The magnificent specimens that we have exhibited and sent to Boston, New York, Philadelphia, Detroit, Hartford, Baltimore, Chicago, etc., etc., have shown to what perfection of color and size the Pansy of to day can attain when well grown. The display we made on May 10 in Boston has probably never been equaled even in Europe, not a few of the flowers measuring four inches across and colors rivaling the best orchids.

OUR GIANT MARKET

Is truly the variety for the million, being of immense size and bright colors. We have greatly improved them, getting more variety of colors, especially in the lighter shades. 1500 seeds.

THE GIANT FANCY

We find it impossible to improve on. They are certainly the ne plus ultra in pansies now. They require high cultivation to develop well. 600 seeds. Trade packages of either variety at $1 each.

Full directions how to grow pansies with each package.

Very Flattering Testimonials From the Trade all Over the Country.

DENYS ZIRNGIEBEL, Needham, Mass.

BOUVARDIAS.

SINGLE AND DOUBLE WHITE,
SINGLE AND DOUBLE PINK,
SINGLE AND DOUBLE SCARLET,
SINGLE BLUSH, from 2-in. pots, $4 per 100, or $35 per 1000.

Plant on benches now for next Winter's bloom.

SMILAX, $3.00 per 100; $25.00 per 1000.
CLIMBING FERN, $3 per 100; $25 per 1000.
MARECHAL NIEL, 2 and 3-inch pots, $30.00 and $40.00 per 1000.

Also a general assortment of best Roses, at same figures. Stock in best of condition. Samples mailed upon receipt of 25 cts. for postage.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

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ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

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QUEDLINBURG, GERMANY.

A. H. HEWS & CO.

JARDINIERES FOR STANDARD FLOWER POTS.

SEE OUR ADVERTISEMENT IN "AMERICAN FLORIST."



GEO. H. WALKER & CO. LITH. BOSTON

JARDINIERE No. 310. PEDESTAL No. 311.

FOR PRICE LIST SEE PAGE 28.

NORTH CAMBRIDGE, MASS.

ORIGINAL AND LARGEST GROWERS OF

LILIUM HARRISII, BETTER KNOWN AS THE BERMUDA EASTER LILY.

BULBS NOW READY FOR DELIVERY.

THE BEST IN THE WORLD FOR FORCING FOR WINTER FLOWERS. WE OFFER ONLY STRONG FIELD-GROWN BULBS FROM OUR OWN GROUNDS IN BERMUDA.



COPYRIGHTED, 1890, BY F. R. PIERSON, TARRYTOWN, N. Y.

From a photograph taken the week before Easter, 1890, showing a view in one of our new iron greenhouses, here at Tarrytown, 20 feet in width by 140 in length, of a crop of Lilium Harrisii in full bloom. This house produced over 15,000 flowers for Easter.

This is not only the best by far of all lilies for winter blooming, but it is one of the most profitable flowers that can be grown by florists. It is very easily handled, and the flowers being especially effective for decorative purposes, always command large prices. From its name some have thought it was a bulb for florists' use for forcing for the Easter market only. This is not exclusively so; it derives its name from the fact that, in Bermuda, grown in the open ground, it blooms at Easter time—hence the name "Bermuda Easter Lily"—but by growing it in this country in the greenhouse, with successive lots, it can be had in bloom all the winter from early in December until after Easter; in fact, by special culture, all the year round, or as long as cut flowers are in demand. The fact that it can be forced into bloom by the Christmas holidays adds particularly to its value, as it fills in at a time when flowers are usually scarce and in great demand at high prices, but to accomplish this the bulb must be potted early in August, something depending upon after treatment and the temperature the bulbs are grown in.

For this purpose our Bermuda-grown bulbs are indispensable, as in Bermuda the bulb reaches its highest development, and ripens off perfectly, and is ready for shipment usually by the middle of July—before bulbs in our own country have hardly begun to make their growth. Our bulbs being grown in the open ground, in a climate naturally adapted for their perfect growth, are particularly strong and healthy at any time.

The extent to which this Lily is being forced for winter flowers will be shown by a sale made by us to a large New York grower, who purchased 20,000 bulbs for his own use. We hear it said occasionally that Lilium Harrisii flowers will not keep—this is owing to improper handling. If cut as soon as open they can be kept for more than two weeks, if in a proper place. It bears shipping splendidly, as the two following letters will show. These were written acknowledging the receipt of flowers shipped last Easter.

J. L. Russell, Denver, Colo., writes: "The Lilies came in excellent shape. I don't think I lost one; it is a pretty good recommendation for your packing."

The Fort Worth Nursery Seed and Canning Co., Dallas, Texas, writes: "The Lilies arrived in perfect condition, and we must compliment you on your packing. We would not have thought they would have carried so far packed dry."

THIS VALUABLE LILY IS OUR SPECIALTY.

We grow the bulbs by the acre on our own grounds in Bermuda. We were the first to grow it in large quantities and to offer it at reasonable prices, and we have always been recognized by the trade as **HEADQUARTERS FOR THE BERMUDA EASTER LILY**: supplying the trade as we do, both in this country and in Europe, and we hold by far the largest and the controlling stock of the genuine variety in the market.

The extent of our operations in this bulb alone will be best understood when we state that we expect to sell from OUR CROP of 1891, over

HALF A MILLION BULBS.

Be sure you get the genuine Lilium Harrisii. In order to secure "the true variety," purchase your Bulbs from original stock, which is known to be pure. The value of this Lily has led unscrupulous or ignorant parties to plant L. Longiflorum in Bermuda, planting it with Harrisii to increase their stock rapidly when Harrisii was very scarce, thus mixing the stock irretrievably, thereby rendering it absolutely valueless for forcing and we have known instances where these mixed bulbs have been sold to large growers as the genuine variety, where large loss has resulted, and dealers should look with suspicion on bulbs offered at prices less than market rates, as the supply has never yet met the demand; "**Mixed Bulbs**" only being offered at reduced rates.

Large growers or dealers in this bulb should write us for special prices, stating quantity of bulbs desired, and we will give lowest estimate on the same by return mail.

F. R. PIERSON COMPANY, TARRYTOWN, NEW YORK, U. S. A.

OUR FREESIA BULBS ARE NOW READY FOR DELIVERY. They are of unusually fine quality, nearly twice the size of Bulbs usually sent out. Intending purchasers should write us for samples and prices, stating quantity wanted.



COULDN'T GO!

DON'T FORGET to call on the AMERICAN FLORIST, Parlor B, Queen's Hotel.

WHEN WRITING advertisers please say that you saw the adv. in the AMERICAN FLORIST.

THE LATEST report of the Florists' Protective Association makes very interesting reading to those who do a credit business.

THE CITY GOVERNMENT of Toronto has joined hands with the Gardener's and Florist's Club to make our stay an enjoyable one.

TAKE A good supply of your business cards along, so new acquaintances may have your name and address in convenient shape for preservation.

AS WILL be noted by the programme printed in this issue the bowling match takes place on Thursday instead of Wednesday as previously announced.

A COMPLETE collection of the engravings that have appeared in the AMERICAN FLORIST, and of which electros are sold at one-fourth the original cost of the engraving, may be seen at Parlor B, Queen's hotel.

YOU WILL get many valuable pointers by a careful inspection of each article displayed at the trade exhibit. This is a progressive age, and here are gathered together the very latest developments in tools and other accessories to the business.

Butted Glass.

We are rebuilding our houses this summer using 12x24 glass, and are butting it, first dipping the lower edge in thick white lead paint, and puttying with Ives' putty machine. We have had several hard showers and find that it is not necessary to "carry an umbrella" in the houses. A. WHITCOMB & SON.
Lawrence, Kans.

1,500 Healthy

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GRAPE VINES

For Sale.

One Dollar each. Cash with order.
Expressage paid by purchaser.

NORWYNDEN GRAPERIES,
WEST CHESTER, PA.
ALFRED E. BAKER.

OUR Wholesale Fall Catalogue
— OF —
HYACINTHS, TULIPS, ROMAN HYACINTHS, NARCISSUS,
AND ALL DUTCH, FRENCH AND OTHER BULBS,
HARDY PERENNIAL OR HERBACEOUS PLANTS,
CLEMATIS,
FLOWER SEEDS for FALL SOWING,
VEGETABLE SEEDS,
ORCHIDS,
PALMS,
FOLIAGE PLANTS,
FERNS,
IMPLEMENTS,
INSECTICIDES,
BOOKS,
ETC.

Has been mailed to all the Florists, Seedsmen, Nurserymen, etc. in the United States and Canada. If you have not received a copy, we shall be pleased to send a duplicate.

We hope to see all our friends in the trade at the Convention of the Society of American Florists in Toronto.

PITCHER & MANDA,
SHORT HILLS, N. J.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, IND.

ROSES, ✻ ✻
CARNATIONS,
CHRYSANTHEMUMS,
And all First Class NOVELTIES.

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HOLMESBURG, PHILADELPHIA, PA.
PALMS, FERNS AND DECORATIVE PLANTS.
My establishment is devoted exclusively to the culture of such plants. The stock is one of the largest and CANNOT BE EXCELLED in quality. Prices always moderate.
TRADE LIST ON APPLICATION.

CYPRIPEDIUM INSIGNE.

FOR SALE About one hundred fine pans of this most useful Orchid. In 8 to 10-inch pans, very strong and healthy. Price from $3.00 to $5.00 per pan.
WM. J. STEWART, 67 Bromfield St., BOSTON, MASS.

PLEASE TAKE NOTICE.

NOW READY: Freesia Bulbs, California Calochortus, Brodeiæ, and Fritillaria.



CALLA BULBS, ready 1st of August.

LONGIFLORUM BULBS, ready 15th of August.

CHINESE NARCISSUS, 1st of September.

AURATUM, Rubrum, Album, Krameri and other Japan Bulbs 1st of October.

Fresh invoice of **Kentia, Areca Palm seed, Corypha australis and Araucaria seeds. SEND YOUR ORDERS.**

FRESH FREESIA REFRACTA ALBA SEED, $1.50 PER OUNCE.

Cycas revoluta stems a specialty. (We imported over 30,000 lbs. this past season.)

We want your orders now for Fall delivery of *Araucaria excelsa, Rhapis Palms, Tree Fern stems, Maples,* NEW and CHOICE *sorts of Tree Pæonies, Iris Kæmpferi, Deutzias, etc.*

Just to hand: Large flowering DIANTHUS SEED from South of Japan. Try it, it is the most beautiful Dianthus you ever saw.

Send for our new Trade List, and give us a trial. Do not be afraid of the distance. We can guarantee you **SAFE** arrival of your order. Freight on plants is only $2.95 per 100 lbs. to furthest points East. We have shipped for the past 12 years, with invariable success, to all points in the U. S., Europe, Australia, and as far as South Africa. Time of freight 14 to 20 days.

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BUSH HILL PARK, ENFIELD, ENGLAND.

THE GLASS STRUCTURES COVER AN AREA OF UPWARDS OF 315,000 FEET, OR OVER 150 HOUSES, BESIDES RANGES OF PITS, CHIEFLY DEVOTED TO THE CULTURE OF

ORCHIDS, PALMS, FERNS,

— AND OTHER —

Choice Stove and Greenhouse Plants.

INSPECTION OF STOCK INVITED. ALSO CATALOGUES ON APPLICATION.

HUGH LOW & CO.

Montreal.

The Florists' and Gardeners' Club held its fourth annual picnic July 29, about 300 persons boarding the steamer Prince of Wales for a trip up the river.

The weather was magnificent (thanks to Professor Perrin) and everyone seemed to thoroughly enjoy themselves, with the exception of Barney (Stanford's dog.) Barney evidently did not enjoy being tied to a tree while his master with two or three others were round at Kirkwood's point fishing. A programme of games was gone through, the children in particular enjoying themselves. Everything passed off without a hitch, the return safely made through the rapids, reaching the city about 7 P. M.

The chrysanthemum bug is around in large numbers and fears are expressed for the crop of bloom. Can any reader of the FLORIST tell us how to keep the plants free of them? Several remedies have been tried here; all without success so far. It is simply impossible to grow plants in the open if something cannot be done to get ahead of his bugship.

Members are commencing to look up a few stray dollars for convention week. Members traveling via Montreal and wanting information as to time, route, etc., can write to Jos. Bennett, 2401 St. Catharine street, who will be pleased to supply any information required. J. B.

To Toronto via Buffalo.

Delegates going via Buffalo will find the last of their trip most enjoyable, if arranged so they go via New York Central railroad to Lewiston, thence by boat across Lake Ontario. The Erie and connecting roads have a similar line, but here the Niagara gorge and rapids view between the Falls and Lewiston is missed.

THE convention programme as it appears in this issue contains some additions and corrections made since the original was issued by the secretary.



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and Colored Plates,
TO ORDER FOR
SEEDSMEN AND FLORISTS.

Ten years' experience tells in quality of work. Carry no stock plates to make life a burden and expenses heavy. Can make new work good at low prices. Try me.

WRITE FOR ESTIMATES EARLY.

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Office and works Lee and Leonard streets,

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WITH IMPORTED NOVELTIES,
To be had at the ONLY Exclusive Florists' Supply House in America.

H. BAYERSDORFER & CO.,
56 N. 4th Street, PHILADELPHIA, PA.

Metal Wreaths, Anchors, Crosses, Stars, Pillows, Etc, Etc, Wheat Sheaves, Baskets, and Florists' Supplies of every kind.

LOOK OUT FOR OUR EXHIBIT.



A. M. STEARNS, Manager.

LOCKLAND
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GREENHOUSE
MATERIAL OF
EVERY DESCRIPTION.

CLEAR CYPRESS, GUARANTEED.

FIRST	SECOND	THIRD
$150.00.	$50.00.	$25.00.

CHRYSANTHEMUM EXHIBITION,
Bay City, Michigan, November 5 to 11, 1891.

The above prizes are offered for 100 long stem blooms in not less than 50 varieties. Open to all outside of Bay County.

TOTAL PRIZES OVER $1000.

We will refund transportation on all cut flowers not receiving premiums. Revised prize list to be had at the Convention, or mailed to any applicant.

T. J. COOPER, SECRETARY
BAY COUNTY HORTICULTURAL SOCIETY.

JOHN IRVINE, PRESIDENT.

THE LARGEST STOCK IN AMERICA
— OF —
Asparagus Plumosa.

DON'T FAIL TO SEE THE EXHIBIT OF THIS BEAUTIFUL DECORATIVE CLIMBER.

Strings for sale in any quantity, direct from the greenhouses, or from any wholesale dealer in Boston. Fine plants ready for Delivery October 1.

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OVER 150 DIFFERENT SUBJECTS IN A NUMBER OF SIZES AND STYLES, SUITING ALL MINDS AND PURSES.

ARRANGE TO DEVOTE AN HOUR IN EXAMINING THEM; IT WILL PAY. YOU CAN GET HELPFUL IDEAS, TOO, RIGHT THERE.

DAN'L B. LONG, Florist,

BUFFALO, N. Y.

Carnations.

FIELD GROWN PLANTS.

ALL THE LEADING VARS.

Send for prices.

GEO. HANCOCK,

GRAND HAVEN, MICH.



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EVERGREEN CUT FERNS.

Especially for Florists' Use.

$1.25 per 1000 Ferns.

DISCOUNT ON LARGE ORDERS.

Special attention paid to supplying the Wholesale Trade. Write for prices.

BOUQUET GREEN for Holiday Trade $2.00 per bbl. (30 lbs.); or $6.00 per 100 lbs.

SPAGHNUM MOSS A Specialty. Long clean fibre, dry or green, $1.00 per barrel or six barrels for $5.00. Write for terms on large lots.

CHRISTMAS TREES American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for Price List and Terms.



CITY STAND DURING THE HOLIDAYS, 47TH ST., and LEXINGTON AVE., NEW YORK.

L. B. BRAGUE, Hinsdale, Mass.

Mention American Florist.



AN ANIMATED DISCUSSION ABOUT "THE BLACK SPOT." WITH ACKNOWLEDGEMENTS TO PUCK

The Use of the Putty Bulb.

Four years ago I applied thick paint or thin putty with a Scollay bulb to a portion of my greenhouse on the edges of the glass. At the time I was quite pleased with it, as I could apply faster than ordinary paint with a brush and it made a good joint. Two years after, in painting the house it was in good order. *Now* I am having the pleasure of scraping it off and I lose as much time doing so as I saved putting it on. As the oil has dried out the water has loosened it; the edge curls up and makes it very rough. I paint the outside of the greenhouse once in two years, which preserves it in good order and keeps a tight roof. I have not tried any paint that is more satisfactory on the whole than white lead and linseed oil, but from a partial trial two years ago of a mixture of white lead and sulphate of baryta I am led to try it again this year. It does not rub off as much as lead alone, and it does not crackle like zinc. The experience of florists in painting sash work would I think be useful to many, especially to those who have limited experience. My rule is one coat of paint every two years. S. F.

GREENHOUSE BOILERS.

THE FLAT TOP TYPE

THE FLAT TYPE

DEVINE'S BOILER WORKS,

FRANK DAN BLISH, Att'y,

387 S. Canal Street, CHICAGO.



Ventilator Machinery

FOR ALL CLASSES OF GREENHOUSES

EITHER FOR TOP OR SIDES.

Awarded the only Certificate of Merit at Buffalo Convention.

Patented Dec. 10, 1889.

Write for Catalogue before ordering elsewhere.

E. HIPPARD,

YOUNGSTOWN, O.



THE EVANS

Challenge Ventilating Apparatus

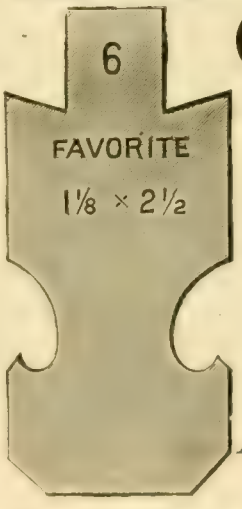
Will be on Exhibition at Toronto, Aug. 18.

First Class, High Grade Machines, made of the best material, neat, symmetrical, strong, durable, and unexcelled in construction and ease of operation.

QUAKER CITY MACHINE CO.,

Sole Manufacturers,

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QUICK WORK,

GOOD MEASURE,

BEST MATERIAL.

Address

LOCKLAND LUMBER CO.,

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A LARGE STOCK OF **CLEAR CYPRESS** ON HAND, WORKED AND READY TO SHIP.

TIME IS MONEY.

Our Manager, A. M. STEARNS, will Represent us at Toronto. Don't fail to call on him for Estimates and Sketches.



Reduce your Coal Bills.

THE FURMAN HOT WATER AND STEAM BOILERS

FOR GREENHOUSE HEATING,

Give a uniform heat night and day. Can be run with less attention, and with great saving in coal. Awarded Certificate of Merit by Society American Florists in 1889 and also 1890. Write for new illustrated Catalogue giving valuable tables and showing how to correctly pipe a house for Modern Steam or Hot Water Heating.

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Every Florist! Every Nurseryman! Every Seedsman!

SHOULD HAVE OUR TRADE DIRECTORY.

Address AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

THE OLD RELIABLE MAKE OF

Elverson, Sherwood

& &

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STANDARD FLOWER POTS.

LAWN VASES. HANGING BASKETS.

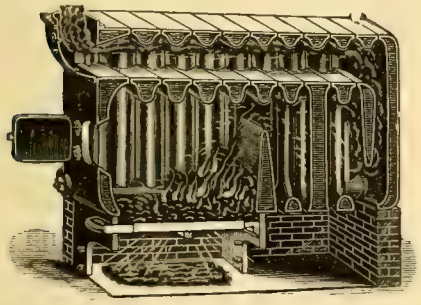
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WRITE FOR

ILLUSTRATED BOOK.

PITTSBURG CLAY MFG. CO.

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ELVERSON, SHERWOOD & BARKER. (LIM.) NEW BRIGHTON, PA.



A CARMODY BOILER

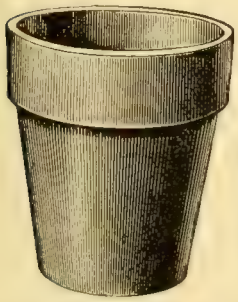
will Cost less, Use less Fuel, and has more advantages than any other boiler in the market.

Send for Descriptive Catalogue.

J. D. CARMODY,

EVANSVILLE, IND.

STANDARD FLOWER POTS



NOTE.—If you want a No. 1 Standard Pot, send your orders to

Wm. H. Ernest,

313 Georgia Ave. S. E.

WASHINGTON, D. C.

Send for price list.

ROTTED PEAT, FIBROUS PEAT, AND PACKING MOSS,

$1.00 per Barrel.

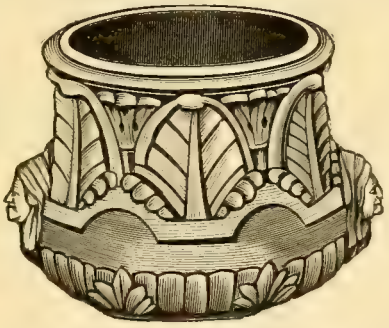
SPHAGNUM MOSS, $2.00 Per Bbl.

A discount of 25 per cent. on all orders of five barrels or upwards. Cash with orders.

THE BARNEGAT MOSS & PEAT CO.,

BARNEGAT, NEW JERSEY.

STANDARD FLOWER POTS



— AND —

JARDINIERES IN GREAT VARIETY.

NOTE.—Our colored cut in this number of the AMERICAN FLORIST illustrates our new Jardiniere, made especially to accommodate "Standard Pots". They are made in five sizes, to hold 5, 6, 7, 8 and 10-inch pots, and are finished in a variety of bright colors—closely imitating imported goods. They will be on exhibition at the Convention at Toronto. For prices, send for our Illustrated Catalogue.

A. H. HEWS & CO., CAMBRIDGE, MASS.

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THE HUMFELD LITTLE GIANT VENTILATING APPARATUS.

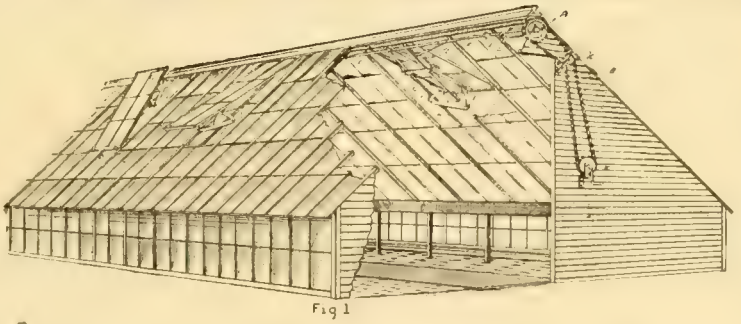


Fig 1

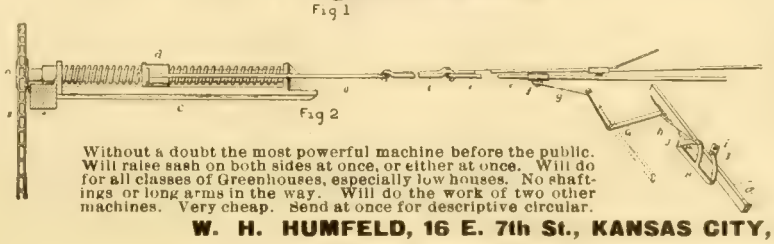


Fig 2

Without a doubt the most powerful machine before the public. Will raise sash on both sides at once, or either at once. Will do for all classes of Greenhouses, especially low houses. No shaftings or long arms in the way. Will do the work of two other machines. Very cheap. Send at once for descriptive circular.

PATENT APPLIED FOR.

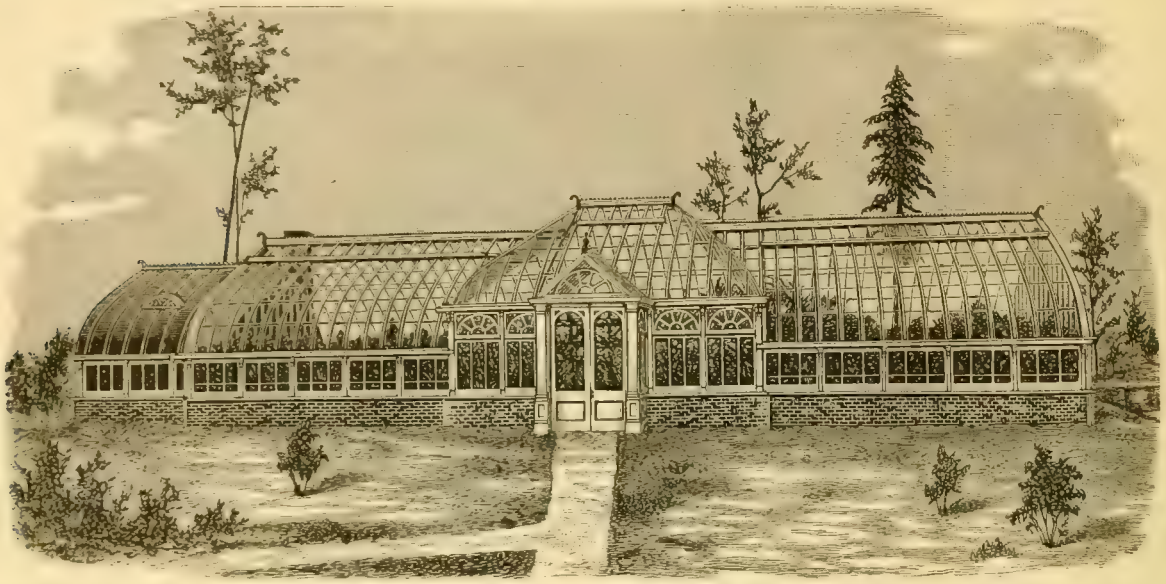
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HITCHINGS & CO.
—) ESTABLISHED 1844. (—



GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., ETC, CONSTRUCTED WITH POSTS, RAFTERS, SILLS, PURLINS, GUTTERS AND COLUMNS, ALL OF IRON. ESTIMATES OF COST FURNISHED FOR THE STRUCTURE COMPLETE, OR FOR THE STRUCTURAL IRON WORK, SHIPPED READY FOR ERECTION; ALSO FOR THE HEATING AND VENTILATING APPARATUS.

Send 4 cents for Illustrated Catalogue. HITCHINGS & CO., 233 Mercer St., New York.

ROBT. CRAIG,
49th and Market Sts, PHILADELPHIA, PA.

PALMS.
KENTIAS, ARECAS, LATANIAS, PHOENICES, SEAFORTHIAS, PTYCOSPERMAS, ETC.

A very large stock of all the best varieties in sizes suitable for growing on, or for decorative purposes; in first-class condition, at prices as low as they can be imported for.

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At this date (August 13) we have an immense stock of all the leading forcing varieties; *strong plants* in 3 and 4-inch pots, suitable for *late planting*, including, in extra fine condition, Wm. F. Bennett, Mme. Pierre Guillott, American Beauty and Mme. Hoste.

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We make a specialty of Ferns, and can furnish in quantity first quality stock of all the leading commercial sorts.

SEE OUR SAMPLES AT THE CONVENTION.
Send for Wholesale Price List.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VII. **CHICAGO AND NEW YORK, AUGUST 20, 1891.** **No. 168.**

THE AMERICAN FLORIST

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Address all communications to

AMERICAN FLORIST COMPANY,

54 La Salle Street, CHICAGO.

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M. H. NORTON, Boston, Mass., president; JOHN CHAMBERS, Toronto, Ont., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The seventh annual meeting at Toronto, Ont., August, 1891.

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Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BEATTY, Sec'y, Oil City, Pa.

AMERICAN CHRYSANTHEMUM SOCIETY.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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OTHER convention news will appear in next issue, including a complete report of all the festivities and work of the auxiliary organizations.

LITTLE ROCK, ARK.—At a special meeting of the Little Rock Florists' Club held August 12, it was decided to give a chrysanthemum show about the 10th or 13th of November.

YOU CAN give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

The Toronto Convention.

The seventh annual meeting of the Society of American Florists began last Tuesday morning in the Pavilion at the Horticultural Gardens, Toronto, Ontario. This was the first meeting of the society held in Canada, and as a result many erroneous impressions regarding the florists, and the people generally, to the north of us, was quickly removed. Toronto is a beautiful city and it does not lack the bustle of a municipality of equal size in the "States". And certainly no warmer welcome could have been extended than that received by those who crossed the line to enjoy the hospitality of our Canadian friends on this occasion.

The very cordial address of welcome extended to the society at the opening session by Mayor Clark, on behalf of our hosts, was very ably and warmly responded to by Judge C. W. Hoitt of Nashua, N. H., on behalf of the sotiety as follows:

RESPONSE TO THE ADDRESS OF WELCOME.

It becomes my duty and pleasure in behalf of the society here assembled, to accept the hospitalities so generously tendered us. It is a duty, because as such spokesman, I am called upon to voice the sentiments of the "strangers within your gates," and to assure you, sirs, that the society fully appreciates the great honor conferred upon it as a whole, and upon the members individually in being so gracefully and cordially received in your beautiful city. I esteem it an honor that I was selected by our president to represent a society, which cannot be characterized in the language of Burke, as, "still, as it were, but in their gristle and not yet hardened into the bone of manhood," but an organization of more than eleven hundred members, residents of forty states, of the three leading provinces of British America, of England, Ireland and France. To occupy such a position, I long, like Byron, for a speech "of forty parson power," but that being denied me, I will proceed as best I may.

It is the first time in the history of the society that it has convened outside the limits of the United States. How fitting that your charming city was chosen! The name itself is a synonym for hospitality, for in the poetic Indian tongue from which it is derived, Toronto signifies the "place of meeting," and in the days long ago, the beautiful site on the lake shore was selected as the rendezvous of the great tribes when called to deliberate on matters of their common welfare. Thus at an early period its natural beauties and advantages were appreciated and time has but added to its charms. This may offer an explanation of the liberal hospitality tendered us here to-day. From the beginning, the good people were accustomed to it.

The city itself from its location and surroundings, offers most extraordinary facilities for such courtesies; it is easily accessible by rail or water, having six or more railways converging from different points of the compass; a fine harbor to which steamers come from all the principal cities on the lakes and the St. Lawrence; with a people thoroughly alive to its advantages and natural surroundings, "framed," as Gloster says, "in all the prodigality of nature." Is it any wonder that the city with such a combination has made the wonderful growth attributed to it? In 1813 we are told the population was but four hundred and fifty-six, in 1885 it was one hundred and twenty thousand, while now the returns show more than two hundred and twenty thousand inhabitants! In assessed valuation in a period of eight years alone, it showed a gain of forty-eight per centum; the people meanwhile keeping pace in all branches, so that to-day, it is the religious, educational, political, literary, legal and commercial center of the most populous province of the Dominion. Well may the citizens be proud to occupy such a position in a country which has been styled, "the principal gem of the girdle of precious stones encircling the waist of Brittania." Most truly may they boast of a province which by the mother country is so esteemed; to which is given the greatest latitude in self-government and in the management of its own affairs; a country of enterprise and progress and though we from the States consider ourselves as lively, progressive and aggressive, yet we find ourselves not a little taxed in all our modern ideas and thoughts to even keep abreast of you.

But a few short months ago there dwelt among you a leader whose ability, tact, good judgment and loyalty marked him as one of the greatest statesmen of modern times, to whose suggestion and advice your queen listened with respectful admiration, one to whom Canada lovingly and loyally paid her grateful tribute, and when over the wires flashed the sad news that he had gone to his reward, all Christendom testified with tender condolences to the worth of "this great, good man." Of such a country, of such prosperity, of such men, this fair land may well be proud.

The horticultural portion has especial reason to congratulate itself for belonging to a nation whose mother country has done so much for the advancement of this branch. To an Englishman, Wm. Kent, we are indebted for the modern style of gardening, differing materially from the Dutch and Italian styles. Horace Walpole spoke of him as "an original, the inventor of an art that realizes painting and improves nature. Mahomet imagined an Elysian; Kent created many." The style of gardening then introduced by him in the eighteenth century was quickly

copied by other nations and extended all over Europe. He was followed by other British artists and the lead then secured has been maintained to the present time.

Again, the London Horticultural Society formed through the efforts of Sir Jos. Banks and two others, obtained its charter in 1808, and nine years later was the first to establish an experimental garden. From this, other societies sprung up until now similar organizations are found in all the leading European cities. In fact, in Great Britain and Ireland alone there are to-day 315 botanical, horticultural and floral societies.

England has produced such botanists as Hooker, Lindley, and Bentham; such hybridizers as Dominy, Bennett, and Waterer; such plantsmen as Veitch, Williams, and Low; such growers as Molyneux, Turner and Laing, and a host of others in each of the above classes who are a source of pride not only to their own country, but to the world.

Such a fatherland have you—to such did our own honored and revered statesman, Daniel Webster, a native of my own little state, refer in a memorable speech in May, 1834, when he said: "A power which for purpose of foreign conquest and subjugation, Rome, in the height of her glory is not to be compared—a power which has dotted over the surface of the whole globe with her possessions and military posts, whose morning drum beat, following the sun and keeping company with the hours, circles the earth with one continuous and unbroken strain of the martial airs of England." Such is the mother country! Such the leading daughter of that parent land! Such is the leading city of one of the principal provinces thereof!

To be in such a city, to be so cordially received by this people, to be privileged to assemble here for carrying out the purposes of our convention is assuredly most flattering and advantageous to us, and while before coming we looked forward to our advent here as one into a foreign land, yet we now appreciate the fact that we were separated by imaginary lines alone, and that we are come to visit not only our friends, but those of our own "kith and kin," and to more closely cement the common bonds which unite us.

We most heartily accept your hospitalities, and tender you our grateful thanks.

President Norton's Address.

MR. PRESIDENT, LADIES AND GENTLEMEN, MEMBERS OF THE SOCIETY OF AMERICAN FLORISTS:

For the first time in the history of this society, by the kind invitation of the Toronto Gardeners' and Florists' Club, we meet outside the limits of the United States, and I assure you it is a pleasant duty for me to preside in accordance with your choice, to open the business part of the convention in this beautiful and thrifty city.

Our meetings are for the purpose of promoting and advancing the interests of our members; with that end in view we convene to deliberate and glean knowledge that will be of interest and value to us.

It is very gratifying to be able to state that our membership is still increasing, that we have more money in the treasury than at any time since the organization of the society seven years ago; that the several committees have attended to their duties earnestly and promptly with very satisfactory results, which will appear in their reports during the session.

The committee on nomenclature, composed as it is of the most able and intelligent of our members, has already exerted a salutary influence and cannot help being a great benefit to the cause of horticulture generally. The very existence of this committee has a healthy effect, and it is a constant reminder to evil doers that the society has its eye on them. Let the good work go on until every purchaser can feel sure of receiving what he orders, and that whatever he buys, let it be seeds or plants, will prove to be just what the description or the illustration represents it to be.

In the way of recommendations to the society, I find it difficult to say anything that is new or to find any ground that has not been pretty thoroughly gone over by such able and intelligent predecessors as Thorpe, Craig, Hill, May and Jordan, who together with many others whose names are prominent in this society have said and written so much that is valuable and useful to us.

To the young man with visions of future prosperity, who aims to become a successful gardener or florist, I would say, do not forget that it is not so much the opportunities as the use made of them that tells in the end. Good honest toil during working hours together with that intelligence which can only be obtained by study during leisure, will give you the reputation of being faithful and industrious. While I believe recreation after working hours to be necessary and desirable, yet to devote every evening during the week to pleasure is a neglect of opportunities which is sure to be felt in after years, and will do much to blight the hopes of ambitious young men. Constant work without intelligence may become a burden, but with it work will be turned into pleasure and profit.

A proper use of opportunities—and many will present themselves—will certainly bring a reward in later years, for when he enters business for himself he will have that practical experience combined with good common sense which will save him from many annoying mistakes and discouraging failures, and in addition to pecuniary success he will also have that respect which is only accorded to men of refinement and education.

I would say to the beginner as a florist, in the first place to make his business a success a man must be bright and active and smart enough to succeed in any business in which he might take an interest; he must also have a love for his business.

The tendency now is to grow specialties. Some take to roses, and a very few varieties; others to carnations and violets; others to bulbs and chrysanthemums, and many to bedding, stove and greenhouse plants. The first thing to be done is to decide on what you wish to make a specialty of, for, as a rule, the greatest success is attained by having one principal money crop. Then choose a good location where the soil is best adapted for the particular plants you wish to grow. Be sure and locate near a railroad station or within easy access to the nearest market, then erect such houses as are best fitted for the plants you take a live interest in. That florist will succeed best who will take the greatest care in preparing his flowers for the market, culling out and throwing away the poor ones. Far too many of the ordinary or inferior class of flowers are grown. There has been, however, a wonderful improvement in the quality, more especially with roses, chrysanthemums and carnations. Who would have thought a few years ago that those flowers would sell for such high prices as they brought the past season. It only shows that the public are willing to pay for a good article, and the florist who makes quality rather than quantity his first consideration will always have a ready market with satisfactory prices. The wholesale men will have no trouble in disposing of such stock and will be able to make good returns to the producer instead of being obliged to consign it to the ash barrel and the dump as is frequently done with the poorer quality.

With the retailers it is a pleasure and a satisfaction to handle first class flowers, although they are generally very modest persons, yet with this stock they can stand up and face their customers and demand a price without a blush and they will be sure to get it.

Florists in general are to be congratulated upon the great advances made in the arrangement of cut flowers. The loose natural way of putting them together with their long stems and beautiful foliage with an eye to harmony of color and artistic effect, and the custom of using one or two colors only in each design, is a long step in the right direction, and a vast improvement over the style of a few years ago, where match sticks, corn-broom, toothpicks and wire were supposed to be indispensable factors in making up designs, and an endless variety of flowers of colors were packed stiffly together into what was wrongly called artistic work.

A successful florist always keeps his eyes open and is on the lookout for any new and rare things in his line coming on the market, not waiting two or three years and allowing his competitors to get ahead of him. He tries to avoid everything that will draw his attention from his business, for his soul is in it. Above all he will avoid all small, mean jealousies and endeavor to live on friendly business relations with his neighbors. Honorable competition is commendable at all times.

This society has done much to do away with senseless jealousies and bad feeling in the trade. The local clubs are doing a good work in the same direction, and those who have not a club in their city or town already should organize one right away. Frequent meetings with your neighbors in a business or in a social way cannot result otherwise than in a mutual benefit.

We should not forget the ladies. I would recommend they be given the opportunity to enter the business. More especially in the retail stores will they be found very useful not only as book-keepers and cashiers, but in waiting on customers and in putting up orders. Their correct taste and their aptitude for recognizing the beautiful in form and color will make their services desirable as artists and designers, where harmony of color is so essential. There are many women to-day throughout the country that are doing a profitable business on their own account and there is room for many more in an occupation which is so appropriate and pleasant and for which they are so admirably fitted in refinement and taste.

I believe we should as a society encourage public exhibitions of plants and flowers. There is no better method of advertising for the trade than by displaying our productions at such exhibitions. It educates the public taste and this creates a demand for our goods. It is a good sign to see the commercial florists waking up to the advantages offered by such means for increasing their business. In the past, horticultural exhibitions have been supported mainly by contributions from private collections, but in recent years much creditable work in this line has

come from the hands of our commercial growers.

As the World's Columbian exhibition is to be held at Chicago in 1893 and the time for preparation is short, it is urgent that we should make some move in the matter if we want to make our influence felt at that great and important event. I believe we should as a society do all in our power to assist and encourage the Directory, and to ensure the completion of a horticultural exhibition such as the world has never seen.

Now that the business of the convention is open, I hope the members will attend every session until its close, as there will be plenty of time between sessions for sight-seeing and entertainments now that we meet but twice each day.

There are many valuable and interesting papers to be read and discussed. Essays which have been prepared with much thought and attention. I hope the members will take part generally, expressing their views and not hesitating to ask questions of the essayists. In that way a great amount of information may be gained. And I hope that if any of the members here have succeeded in developing anything of real merit in methods of growing plants, construction or heating greenhouses or any improvements in any way connected with the business they will be generous enough to make it known, for we are all here to learn and a discussion will be of mutual advantage.

I cannot close without thanking the executive committee, also the secretary, for their support and kind assistance whenever it was desired, they have performed their duties cheerfully and well; also to every member, for wherever I have been on either side of the line I have met with nothing but kindly greetings and the hand of friendship and brotherly love has always been extended to me.

Although we are on what is to most of us foreign soil, yet we find the fraternal ties that bind us together as horticulturists and as florists stronger than any political bonds. The kindness received by your executive committee at the hands of our Toronto brethren last winter is not forgotten, and the hearty words of welcome we have just listened to are a proof to us that we are in the hands of our friends.

Thanks to a merciful Providence the death rate has been light since our last meeting, and let us pray it may long continue that we may all be able to attend many conventions in the future and continue to meet the same old familiar faces and exchange annually our hearty greetings; and may the Society of American Florists long continue to prosper and make itself a power in the interests of floriculture, the material and social advancement and the mental uplifting of the fraternity.

Secretary Stewart's Annual Report.

MR. PRESIDENT AND MEMBERS OF THE SOCIETY OF AMERICAN FLORISTS:

While it is true that no specially new or striking undertaking adorns our past year's history, yet it is gratifying to be able to report that we have been making steady progress as a society, and that much has been accomplished quietly but thoroughly towards the internal building up and solidifying of the organization, so that we now find ourselves financially and numerically stronger than ever before, and well prepared to prosecute our work in new directions.

The net gain in membership has been large, and this in itself is one sure indication of prosperity. The funds in the treasury have been steadily accumulating, and competent committees have been at work perfecting plans whereby this very necessary part of our equipment may be still farther strengthened and increased.

The two lesser societies which have been fostered within our organization, the Florists' Hail Association of America and the Florists' Protective Association, are both prosperous and self-supporting. It seemed to the executive committee that the request of these associations for more time and facilities for their annual meetings than has been allotted to them in the past should be granted, and therefore one of our regular sessions—that of Wednesday evening—has been dropped, and the time given up to these bodies.

The most important undertaking now on our hands is the work of the committee on nomenclature. Comparatively few members of the Society have any idea of the great responsibility entailed upon this committee or the vast amount of faithful and earnest work which has been so conscientiously done by the chairman, Mr. Wm. Falconer, to whom this society is under lasting obligations.

Many of the state vice presidents have shown a commendable readiness to do what they could to advance the society's welfare. There are some of these state vice presidents, however, every year, who are not inclined to do any work whatever in the interest of the society. The remedy lies with the state delegations, who should be careful to elect for the office of vice president only those who can be depended upon to represent their state creditably. The number of members who paid assessments for the year 1889 was 827; for 1890, 926. The number of lapses in 1889 from the membership of 1888 was 282. The lapses in 1890 from the membership of 1889 were only 142.

From January 1, 1891, up to August 10 there have been added to the roll 62 new names. The number of new members during that period is considerably in excess of former years. A most interesting fact in this connection is the widely extended territory from which the accessions have come. There was one each from Indiana, Michigan, Ohio, Texas, Virginia, West Virginia and District of Columbia. Two each from Alabama, California and Connecticut. Three each from Kentucky and Wisconsin, twelve from Pennsylvania and thirteen each from New York and Massachusetts.

As these new members have come in without any unusual solicitation, we cannot but interpret the signs as indicating that we are making good headway as a national institution. Just now we are harvesting in a field which has been hitherto scarcely touched, and no doubt the accessions to our ranks from Canada will be large.

The report of the Boston meeting contained 140 pages. Copies were mailed to all members entitled to receive the same; also gratuitously to most of the leading horticultural journals in this country and abroad, and to various horticultural societies and florists' clubs.

The executive committee held its regular midwinter meeting at Toronto. Besides the work of preparing a programme and attending to other details connected with this convention, there were many matters of vital interest discussed, reports and suggestions regarding which will be presented here in due time.

Each year seems to add to the difficulties encountered in obtaining satisfactory rates of fare on the railroad. The rules of certain passenger committees, which were already over stringent, have this year been doubled in severity. However, as we get fully as good if not better terms than other bodies of similar size, it is not probable that any agitation of the matter would be of benefit to us.

The only death reported during the year was one, a phenomenally low death rate for a society as large as ours. Fred Schlegel, of Rochester, N. Y., died on May 15, 1891. He had been state vice president for Western New York in 1889.

In conclusion your secretary takes this opportunity to acknowledge gratefully his obligation to the officers of the society and the members in general for their kind support and willing assistance during the year that is past.

Toronto, Ont., Aug. 18, 1891.

Review of New Plants.

BY WM. FALCONER.

[*Presented at the Toronto Convention of the Society of American Florists.*]

NEW ROSES.—BY MR. ERNST ASMUS, W. HOBOKEN, N. J.

I tried some of the new French roses last winter, and, as usual, found most of them worthless. The French raisers send out glowing descriptions of their new roses every fall, and somehow or other always succeed in luring us to take their bait. Yes, we bite and repent, and almost invariably declare it will be the last time! But the very next fall we take the bait again.

Out of nine varieties of teas I found only one that was worth retaining for another year's trial. Here are the names of the ones I found to be no good: Souvenir de Clairvaux, Comtesse de Witzthum, Comtesse Eva de Starenburg, Jaune Nabonnand, Maurice Bauvier, Princesse Sarsina, Souv. de Lady Ashburton and Souv. de Mme. Sablayrolles (?). Eliza Fugier, a white flower somewhat resembling Niphetos, but stiffer stemmed was the only one I kept to try again.

Among the hybrid teas sent out I imported four kinds, and have concluded to try three of them for another year. These are Mme. Carolina Testaut, a large pink rose, of good, firm petals and stiff stem, but rather too single; Triomphe de Pernet Pere, a sweet red rose, but with too much purple in it for a good cut flower; it is in the form of a Jacqueminot, and would have been a good rose did it have a better color, and Marquise de Salisbury, which, if it were of larger size, would have made an elegant rose. It is a free bloomer, and its flowers are brilliant velvety red, but entirely too small.

NEW ROSES.—BY THE DINGEE & CONARD COMPANY.

Etoile de Lyon is showing up well in the open ground. This beautiful tea succeeds better outside than under glass.

Mme. Agatha Nabonnand is one of the finest bedding roses and a good grower; color, flesh-tinted rose; buds large and fine.

Duchess Marie Salviate is a beautiful new tea rose and a free grower and bloomer; color orange yellow, showing red.

Mme Pierre Guillot is probably the finest of the new teas, and is now blooming fine with us in the open ground. The color of its flowers is richer than Mme. Watteville.

Snowflake and Lady Lambert.—Wish some one would tell us the difference between them.

Mrs. Degraw and Henri Plantier.—Wish also someone would tell us the dif-

ference between these. (As regards Mrs. Degraw: Mr. Wm. Burgess, formerly of Glen Cove, L. I., and now of Brooklyn, and well known as of Marechal Niel fame, told me that he raised this rose from seed perhaps thirty years ago, and named it in compliment to an ex-president of the New York Hort. Society. Anyway, this rose has been grown in quantity about Glen Cove for twenty years or more, and generally known as Mrs. Degraw or the Burgess rose, and as such Mr. Burgess exhibited it year after year for many years at the Queen's Co., N. Y., agricultural fairs at Mineola. And many rosarians, John N. May among them, who have seen the rose here and to whom I sent plants of it, assured me that it was quite distinct from any other rose. Notwithstanding all this, however, I claim nothing regarding its distinctness. WM. FALCONER.)

NEW ROSES.—MR. J. C. VAUGHAN, CHICAGO, REPORTS:

White La France (*Mdlle. Augustine Guinoiseau*) H. T.—A sport from La France and similar to it except in color, which is white, faintly flushed with pale pink. In masses or bunches the flowers are admired by everyone.

Kaiser Frederick, T —Gloire de Dijon type, producing freely large, very double flowers, with the same coloring as in Malmaison. We consider this a decided break in climbing teas, the yellowish salmon tinge common to this type being entirely eliminated.

Climbing Perle and Climbing Niphetos, both genuine climbers, throw up strong, vigorous shoots eight to ten feet in length. The Gulf and Pacific states will plant these roses by the thousand in time.

Madelaine d'Aoust, Tea.—Coppery yellow, petals heavily edged with white; buds medium size; moderate grower; excellent bedding rose; distinct.

Mme. Pierre Guillot, Tea.—Creamy white, petals edged with rose, buds large and of beautiful style. Compared with Mme. de Watteville, color is similar; buds twice as large, more double; every shoot bears a bud, and has not the Watteville habit of throwing blind wood.

Clotilde Soupert, Polyantha Tea.—One of the most valuable roses of recent introduction. It has endured 10° below zero planted in the open ground. Excellent for sale as a pot plant.

VERY NEW ROSES.

Waban.—A sport from Catherine Mermet. Flowers a very deep shade of rose, with a decided glint of red on the outer petals; in an even temperature of 55° to 58° it produces fine buds; young growths and foliage darker than in the parent, but otherwise it is exactly similar. Our experience with it is limited to the growth and behavior of ten 4-inch pot plants, bedded out in January last.

In new European sorts our experience is limited to a few months' growth under glass. There seems to be some good roses among them.

Mme. Elie Lambert may be described as a medium sized Marie Guillot, pure white with an edge of rose on the inner petals, very double, free blooming and a good grower; distinct.

Elisa Fugier.—Style of bud and color very similar to Niphetos. Every shoot produces a bud; growth very vigorous, much more so than in Niphetos. We advise a trial of this for forcing.

Henri Brichard, H. Tea.—Produces very large, globular buds, in color similar to Captain Christy, with perhaps a deeper center; appears to be thoroughly distinct, quite different from any in this section, good grower and free bloomer.

Triumph de Pernet Pere, H. T.—Claimed to be a cross between General Jacqueminot, H. P., and tea rose Desire; buds of fair size, style of Jacqueminot, fragrant, color cherry red, constant bloomer, good, vigorous grower. We are watching this with considerable interest and advise a trial soon as plants are offered.

ROSE NOVELTIES.—BY MR. E. G. HILL, RICHMOND, IND.

Mme. Pierre Guillot, Tea.—A magnificent and distinct new rose, equally good for forcing or for open ground bedding. This rose will rank with the finest of the teas.

J. B. Varrone, Tea.—This variety may be classed as intermediate between Countess La Barthe and the variety Luciole. It combines the free flowering qualities of the former with the rich coloring of the latter. A most distinct and valuable new rose.

Miss Marston, Tea.—A large, open shaped flower when fully developed, of the general build and style of Mermet. A promising new rose. Will probably force well.

Mme. Marthe du Bourg, Tea.—A distinct shaped bud of considerable length, somewhat after the style of Niphetos in form, but differing in color and texture. This rose blooms well, forces readily, and is of good, sturdy habit

Other new varieties of the tea section may be mentioned briefly: Souv. de Dr. Passot, of very brilliant color, but too thin and scanty in petals, and not large enough. Souv. F. Gaulain, a fine, strong, free flowering rose, quite double and of good build, but with decided purplish cast.

Jeanne Guillaumez.—Of beautiful apricot color, but scarcely large enough in bud; very showy when fully blown, and quite free.

Gustave Nadaud —A long-pointed bud of bright carmine color, shaded with yellow, lacking in substance, however, and also in distinctness from other varieties.

May Rivers and Mme. Olga are both very similar to the old variety Ophelia, and not distinct enough from Cornelia Cook.

Georges Farber, Mlle. G. Godard, Mme. A. Tarle, Mlle. M. Fabisch, Mlle. M. Thezillat and Marquis de Foretan are novelties that should not have been put on the market, as they are of no value to anyone.

Augustine Guinnoisseau —"White La France" (H. T.)—This variety is admired by many and condemned by not a few as lacking in distinctness of color; it is not white, but it is quite distinct from both Duchess of Albany and La France. In every respect but color it is a veritable La France, and worthy of culture.

Bona Weillshott, H. T.—Of good growth and great freedom of bloom, but it is lacking both in color and form; occasionally it is quite fine, but so few good blooms are produced that it cannot be recommended.

La France of '89 is a most distinct and fine rose. It, however, is not "perpetual" in its bloom, like the hybrid teas, but is semi-climbing in habit, and of vigorous constitution. It promises well in form, size, and rich coloring.

Mme. Hortense Montefiore, H. T.—Weak in growth, flower lacking in size, generally undesirable.

Mme. Zea Collogne, H. T.—Of the La France type, with a more distinct combination of colors than in most others of this type.

HYBRID PERPETUALS.

Gustave Piganeau.—A most distinct and valuable H. P. on account of its fine form, large size and good color. These points, together with its great freedom of bloom, place it among the finest of its class.

Gloire de Ex. Bruxelles.—A very dark crimson-maroon colored rose with scarlet shadings. Very full and double and free and fine in habit.

Oscar II. Roi de Suede —A very pronounced and distinct H. P. Color cinnabre crimson, with maroon shadings; of strong growth and bearing large, handsome flowers.

Lady Arthur Hill, James Brownlow, Martin Cahuzac and Maurice Vilmorin are roses of promise in the H. P. section, and can be commended for trial.

The above hybrids are the most noted ones out of the many sent out last year, but the judging has all been done from blooms produced under glass.

Pink Rover.—A Bourbon of the general type and color of Malmaison, but somewhat darker in its shadings. This will doubtless prove a useful variety.

Geraniums.

NEW GERANIUMS.—BY MR. E. G. HILL, RICHMOND, IND.

Beaute Poitevine (Bruant race.)—A charming dwarf-growing geranium with immense semi double salmon flowers. A valuable introduction.

Mrs. E. G. Hill (Bruant race)—Somewhat similar to the above in general character, but of a different and distinct shade of salmon; very sturdy and dwarf. A variety of decided merit.

Copernic.—Has round single florets of that peculiar shade of color found in Poete Nationale. Unsurpassed as a market pot variety.

Montesquieu.—Beautiful lavender pink; very dwarf in growth, throwing large bold trusses of perfectly formed double florets. A decided advance in this line of color.

Jeanne d' Arc.—A fine fancy variety of the Souvenir de Mirande type from which it was seeded. It is creamy white with rosy scarlet border on each petal. A fine acquisition. (Mr. J. C. Vaughan also has a very good word for this geranium.—W. F.)

M. V. Noulens.—Another of the Mirande type and quite the largest, finest and best colored in the section. It is of value to all who need a first-class pot variety.

Beauty of Kent —Perhaps the largest circular shaped flower in the family; the color, texture and veining, combined with its dwarf habit and nicely zoned foliage, make it a pattern single variety.

Jacques Callot is slightly larger than Mirande, but is not sufficiently distinct to warrant its continuance on the lists.

Buffalo Bill —Produces immense spherical trusses of semi-double flowers; color, white shaded blush. A good bedding variety.

IVY GERANIUMS.

Souv. Chas. Turner is larger and brighter in color than the grand old variety Count H. de Choiseul. This is a novelty of exceptional merit and every way worthy of extended culture.

Mme. Crozy is quite remarkable as showing so plainly the cross between the Ivy and Zonal families. The flower is semi-double, quite large and very intense scarlet, and the leaf has the form and color of the Zonals and the texture of the Ivies. Destined to be very useful.



LILIUM AURATUM WITH 113 FLOWERS AND BUDS. [SEE PAGE 46.]

NEW GERANIUMS.—BY MR. A. P. SIMMONS, GENEVA, OHIO.

These are some of the new varieties which have been thoroughly tested by us, and we have only mentioned such varieties as have proved meritorious and worthy of a place among the good new plants. You need not have any fear to recommend any of the varieties mentioned.

BRUANT TYPE.

Md. Mulnard.—Soft red, veined darker, with white center, raised by Delesale.

Md. Massage de Louvrex.—Raised by Bruant. Beautiful salmon, flesh-color, semi-double.

Md. du Luc.—Clear rose color with upper petals marked pure white. The best rose colored variety of the type. Raised by Bruant.

Mrs. A. Blanc.—Very large trusses; color, apricot, veined red.

Mon. Louis Fages—Semi-double—clear orange scarlet; habit of plant the same as the well known variety "Heteranthe." An excellent bedder.

Milte Strub.—An excellent variety, raised by Hoste. Soft salmon, with rose border.

GERANIUMS.—DOUBLE.

Montesquieu—One of the most beautiful new varieties sent out for some time; immense sized trusses of beautiful rosy mauve, shaded lilac.

Buffalo Bill.—Very large trusses; creamy white, marbled with rose.

Wilhelm Pfitzer—Very bright, apricot color. The very best of the color ever sent out.

Ruy Blas—One of the grandest varieties ever raised; trusses of remarkable size; a very bright salmon, with peach-colored border. This variety reflects great credit on Mon. Lemoine, the originator. The above four varieties have been introduced by Lemoine.

Md. Ayme de La Chevreliere—An excellent pure white variety, from Mon. Bruant. By far the best white for pot culture, and also a very good bedding variety.

Md. S Deseglisse—Clear rose, marked white, extra fine.

Gloire de Lille—Semi-double, currant red, shaded vermillion, with white eye; very free flowering.

Josephine Gerbeaux.—The best new variety, sent out last year by Mr. Gerbeaux; trusses of immense size; plant of very free flowering habit; color entirely distinct, center of flowers cherry, shading to rosy lilac at the borders.

Dr. Audiguier—Very large trusses, salmon, with bronze shadings; good bedder.

Dr. Guyon—Very soft rose, tinted violet, with white center.

Josephine Soulary.—Sandal, or deep red. Raised by Hoste.

Marquis Felix d' Albert—An excellent variety, on the style of the good old variety, Peter Henderson.

GERANIUMS.—SINGLE.

Copernic.—Rose and carmine, with white center.

M. Poirier.—Carmine and violet color; very large trusses. An extra fine winter flowering variety.

Athlete.—The finest single scarlet variety ever offered.

Admiration—Pure white, with rose colored center.

Md. La Bayle.—Pure rose.

Comtesse de Cornulier—Large pure white border; center rose.

Md. Le Gras Lacaille—The very best of the yellowish orange colored varieties.

Panache de Nancy.—Salmon, nicely striped with pure white. Good for pot culture.

Jeanne d' Arc.—A new variety, of the Souv. de Mirande type, being darker and brighter in color. This is the best of the type and will be sent out in this country this coming season.

Fuchsias.

NEW FUCHSIAS.—BY MR. A. P. SIMMONS.

Molesworth—Very free blanching double-white variety, from England; of the style of "Storm King," but stronger grower.

Abbe Garnier—The best double purple variety we have seen, having very large flowers and being early and free flowering. Color, violet blue with rose markings.

Jupiter.—Violet blue, large, fine formed flowers, extra fine.

Countess of Aberdeen.—Described by Mr. E. G. Hill.

Ernest Renan—Very early single variety; tube and sepals white, corolla rose color.

Gem of Lavington—Sepals white, corolla single, carmine tinted violet; early and free.

NEW FUCHSIAS.—BY MR. E. G. HILL.

Out of a multitude of new varieties only a very few possess points of merit sufficient to give them a place with Phenomenal and Mrs. E. G. Hill.

Countess of Aberdeen is worthy of notice on account of its approaching so near a pure white in color. When grown in shade both sepals and corolla are absolutely pure white, but in sunshine it "pinks" slightly. This is a fine novelty and will probably prove the forerunner of a race of distinct colored fuchsias.

Ulysee Trellat has a somewhat conical corolla, large and pure white beautifully shaded rose; sepals deep crimson. Of nice habit and very free flowering; an excellent variety.

I have selected only the very finest of the introductions of last year and would say that there are novelties that possess many other points of merit that must recommend them for certain purposes while there are large numbers of others which should never have been introduced, because they are inferior to existing sorts.

NEW PANSIES.—BY MR. DENYS ZIRNGIEBEL, OF NEEDHAM, MASS.

There are the good old English and Scotch strains that the German seedsmen and florists have got hold of and sub-

divided into ever so many colors and varieties, but they practically remain the same thing and I do not see that any improvement has been made in them except in the catalogues by rechristening them.

A really new strain is the Trimardeaux, originated by a florist near Paris, France, but it has been greatly improved since then. These pansies are very large in all their proportions, flowers and foliage, and, too, very hardy, standing well both extremes of heat and cold, and they give general satisfaction all over the country.

Another new strain, also of French origin, is the Odier or five-spotted varieties which of late years have been greatly improved on by the well-known specialists, Cassier and Bugnot, the latter especially introducing new shades of color, and flowers which would have been thought impossible a few years ago. These last strains, however, are by no means as hardy as other strains, owing, I suppose, to closer breeding.

These two races are the only really new varieties that have been introduced within the past few years, and that are, in my opinion, of any merit, and I have come to this conclusion after having tried, within the past five years, every thing of note in the pansy line.

AZALEAS FOR FORCING.—BY MR. JAMES DEAN, BAY RIDGE, L. I., N. Y.

The best of the azaleas that I have imported within the past two years are:

Azalea Vervaeneana.—A magnificent, large, double flower of a rich rosy pink color, broadly margined with white, and a carmine blotch. It is very distinct and free-flowering and it forces well; indeed, it is one of the best azaleas in cultivation to-day.

Azalea Imperatrice Victoria.—A splendid variety, and perhaps the most beautiful of all the double flowering azaleas; flowers of a most beautiful shade of rosy pink banded with pure white. The plant requires careful attention during the hot summer months or the foliage will get brown and drop.

Azalea Madame Louis Vervaene.—A most distinct variety; flowers pure white, striped and spotted carnation-like with rosy incarnate. A first-class azalea.

Azalea Triumphe de Mont St. Amand.—A fine azalea with very large double flowers of a clear rose color with pure white ribbon; bright carmine spot on upper segment.

The best of the older varieties of azaleas are Madame Vandercruysen, Simon Mardner, Empress of India, Emperor of Brazil, Bernard Andrea alba, Sacountala (if Easter is late), and Deutsche Perle (if Easter is early.)

Begonias.

NEW BEGONIAS.—BY MR. JOHN SAUL, WASHINGTON, D. C.

Begonia Triumphe de Lemoine and B. President Carnot are two fine begonias, which I hope will bed out with us in the Middle and Southern States. The ordinary types of tuberous-rooted begonias will not succeed bedded out in this latitude or South. I can only grow them in cold pits shaded with slats. Begonia Baumani is a new species and comes to us highly recommended, but we have to grow it a year or two to test its value.

NEW BEGONIAS.—BY MR. J. N. GERARD, ELIZABETH, N. J.

Begonia Vernon, (Semperflorens atropurpurea), is promising, but needs further trial. If the leaves hold their color out of doors it will be a good bedder.

Begonia Metallica Variegata.—Has creamy white and pink markings; attractive, but less vigorous than parent.

BEGONIAS.—BY MR. F. T. MCFADDEN, CINCINNATI.

Among the new hybrid autumn and winter flowering begonias I particularly recommend Veitch's Adonis and Veitch's John Heal. The former was obtained by fertilizing one of the summer flowering tuberous begonias with the pollen of begonia John Heal and John Heal was obtained by fertilizing Begonia socotrana with the pollen of a seedling of the tuberous section. The habit of Adonis is robust, erect and furnished with bold foliage. The panicles are many, standing well above the foliage, graceful, drooping, bearing flowers three inches in diameter, bright rosy carmine, toned with scarlet. They appear in November, and continue long in perfection. In the case of John Heal, the leaves are smaller, and the flowers are produced in long racemes of six to nine on nodding scapes. They are one and a half to two inches in diameter, rose carmine, continuing fresh fully three weeks.

NEW BEGONIAS.—BY MR. E. G. HILL.

Louise Closson.—This variety is the most highly colored of all the Rex section, being as decided an advance upon Lucy Closson as that variety was upon the popular Louis Chretien. The zone is a bright rosy purple of wonderful lustre.

Marquis Peralta is destined to become one of the most widely grown of all the Rex section from the fact of its refined beauty and its remarkable freedom of growth and luxuriant foliage.

Bettina Rothschild is after the style of the much admired Fire King, but is a great improvement in habit and freedom of growth; the young foliage is bright velvety red, heavily piled.

Among the flowering begonias nothing is finer than Paul Bruant, which is a special wonder both in quantity and continuance of bloom, while the habit is beyond criticism.

Tri. de Lemoine is a near approach to the above in quantity of bloom and promises to prove a good bedder.

Pres. Carnot is an advance on Rubra, both in size of leaf and bloom, and also promises to make a fine bedder.

NEW BEGONIA.—BY HENRY A. DREER, PHILADELPHIA.

Begonia Eclipse.—Not yet disseminated. A sport from Countess Louise Erdody, possessing the same peculiar spiral or shell-like leaf appearance as its parent, but is distinct from it in the color and marking of its leaves; ground color, deep, lustrous green, with deep, bronzy metallic center and edge.

BEGONIAS.—BY PITCHER & MANDA.

Begonia Arthur Malet.—Leaves dark green, covered with fine dots of crushed strawberry color, with metallic lustre; red hairs on surface of leaves; young leaves red.

BULBOUS PLANTS.—BY E. V. HALLOCK, QUEENS, N. Y.

Amaryllises are gaining favor. Meriden, Tendresse and Williamsii are fine sorts.

Anomatheca Cruenta, known in the trade as "scarlet freesia," from the Cape of Good Hope, has sprays of scarlet flowers. Starts slower and blooms later than freesia.

Brodiaeas are Californian bulbs, quite popular with amateurs. With a winter mulching they are hardy here.

Calochortuses are decidedly good for dealer and consumer. Easy to grow, easy to flower, and blooms well indoors or outside; beautiful and lasting. I think C. Gunnisoni is the best of all of them.

Chionodoxa Lucilia is very beautiful and has become a standard bulb. C. Sardensis is newer, smaller, and of a darker blue color.

Crinum Kirkii, from Zanzibar. Bulb, plant, spike and truss of flowers very large. Should be grown in the South until the bulbs reach a large size.

Richardia Æthiopica, var. compacta, known as the dwarf calla. Is dwarfer and more floriferous than the type, and, too, the flowers are smaller, but of fine shape.

Zephyranthes Andersoni, known in the trade as Habranthus. Is yellow flowered and a fine companion plant to the pink and white flowered species. Easy to grow and keeps well.

Gloxinias.—The French tigered and spotted and some other good strains come true from seed. Defiance, scarlet, and Emperor Frederick, azure blue with white throat, are both fine varieties that come true from seed.

Tigridia violacea and T. Patscuaro (?) are new this year. T. buccifera has small, purple flowers, but they last only a short time and the plant soon runs to seed; these should be cut off, however. T. Pringlei is a fine species of the pavonica type, but I have found various shades of color in it. Rather a good bulb; grows very compact.

Montbretias have thoroughly established themselves in the public's favor, and, too, in the dealer's pocket. They possess all the advantages of a gladiolus—they are easy to keep, grow and bloom, and the blossoms are beautiful on the plant or cut. Some kinds have distinct bulbous roots, others more fibrous—don't bother with the latter; and some have a better habit than others. The very best sorts are Crocosmiaeflora, Pluie d'Or, Transcendent, Soleil Conchant and Elegans.

Irises.—Among Kæmpfer's irises, Alexander, Malmaison, Gold Bound, Beth Hallock and Blue Danube are very fine.

Iris Iberica, although an old plant, is a good one, but scarce. I. reticulata, a bulbous, early, sweet kind, has always been high priced, but it is coming down.

Gladioli.—Creole and U. S. Grant, of Dingee & Conard, and Miss Dudley and Nydia, of Burpee, and Florence Vaughan are exceedingly fine new varieties of American origin. Lemoine's new strain of Nanceianus is typical of the parents. In Harry Veitch the individual flowers are distinct and good, but set very bad on the spike; the same is the case in Dr. H. P. Walcott and Carnot. In other instances the spike is finely furnished, but the flowers lack color and form. New Blue has not brought much *blue* with it, except to the one who paid $2 for it. The color is bluish violet, or purplish blue, and quite deep, and the flower is small and shaded, like purpurio-auratus. But much to my surprise the variety is a good grower. Speaking of blue flowered gladioluses: We ourselves have had many, from deep in color to white stained with clear blue; in some the bulbs are even blue. But all are poor growers. Of ten varieties of these we have, five have not yet started to grow this year, although the bulbs are apparently in good order and healthy. To get up a stock of blue gladioli is hard work and no "kodak" process, and this is what surprises me in the New Blue; it is a good



THE SHEPHERD'S CROOK. [SEE PAGE 48.]

grower. Louis Van Houtte, both in Nanceianus and Gandavensis is so poor as to have no excuse to exist in either section. And I would ask our Gallic friends, why put out eight to fourteen new varieties a year when there is real merit in only two or three?

Lilies.—In lilies there is Lilium ochroleucum, soft, yellow, trumpet shaped, from India. L. Grayi, from Roan Mt., not unlike a crimson L. Canadense, but the flowers are not reflexed. There is also a small form of L. Washingtonianum on the market, and said to possess merit. I don't mean rubescens. L. auratum macranthum is very fine. And L. speciosum var. Opal will soon be on hand. It is a good one. (I have had an eye on this new variety called Opal for several years, and seen it in all its stages of growth, rest, multiplication and bloom, and unhesitatingly pronounce it one of the grandest acquisitions we ever have had in the way of hardy lilies. The plant is healthy, and an excellent grower and free blooming; the flowers are white, spotted —stained with pink. A most lovely lily. WM. FALCONER.)

Dahlias.—A. D. Livoni is the best of all pinks. Triumphe de Solforino, a very marked bush form, with large, intense solforino flowers; Margaret Bruant, the best dwarf white, on camelliæflora order; Lucy Fawcett, a show variety, early and exceedingly free; Electric, cactus order, brilliant scarlet, very free; White Dove, long stems, toothed petals; Harry Freeman, cactus order, an improvement on Henry Patrick; Crimson Beauty, a remarkable pompone, and Robert Maher, the best yellow cactus dahlia.

Herbaceous Phloxes.—The new ones are wonders, single florets in many cases cover a silver dollar. Aurore Boreale, Eclaireau, Panama, Paul Bert, Le Soleil, Steudhal and Flambeau are fine. The foliage of Golden Bedder is of a good yellow color.

Chrysanthemums.

CHRYSANTHEMUMS.—MR. EDWIN LONSDALE, SECRETARY OF THE NATIONAL CHRYSANTHEMUM SOCIETY, SENDS ME THIS:

The following are the best new chrysanthemums which came under my notice last November, and I believe were distributed for the first time this year.

Louis Bœhmer, (P. Henderson & Co., imported). Light purple, hairy like Mrs. Alpheus Hardy. Plant very vigorous.

Mermaid, (Dorner). Delicate pink. Very good

Frank Thompson, (not Mrs. Frank Thompson), (Jamison). White, shaded with delicate pink. Vigorous.

Mrs. Isaac D. Sailer, (Harris). Silvery pink. Winner of the "Sailer Prize" at Philadelphia last November.

Mrs. J. D Whilldin, (Harris). Light yellow. Winner of the "Whilldin Prize" at Philadelphia.

Eldorado, (Monahan). Deep yellow; incurved broad petals.

Mrs D. D. L. Farson, (sent out by Spaulding). Rich silvery pink.

John Firth, (Spaulding). Soft pink.

Lily Bates, (Spaulding). Bright pink.

Anna M Weybrecht, (E. A. Wood). Pure White; Chinese form.

Target, (Surman). Bright crimson, similar to Cullingfordii or Tokio. Exhibited in Philadelphia under the name of Shenandoah.

Yonitza, (N. Smith & Son). White; Chinese; distinct.

Mrs. H. A. Pennock, (Harris). Might be described as a yellow Violet Rose.

Beacon, (Fewkes). Creamy white; an improvement on Mrs. Langtry. Winner of silver medal at Boston.

Waban, (Fewkes). Pink. A very much improved Robert Crawford Jr.

Mrs. John Westcott, (Harris). Creamy white, shaded with delicate pink; very large.

Flora Hill, (sent out by E. G. Hill & Co.) White. Extra fine variety.

Mrs E W. Wood, (Wood). Rich dark purple. Very distinct.

James H. Freeland (Wood). Blush; petals broad; flower large. Beautiful.

Pitcher & Manda name Dr. Chas. Brigham, white; John Dyer, chrome yellow; W. W. Lunt, lemon yellow; Rohallion, chrome yellow; John Lane, pink tipped with yellow; Etoile de Lyon, white; Harry E. Widener, yellow; Shasta, white, and Mrs. Grace Hill, blush. But most of these have been in the trade for a year or more.

SOME HARDY PLANTS.—BY EDWARD GILLET, SOUTHWICK, MASS.

Arenaria Grœnlandica.—A little alpine, easily grown from seed, forming small tufts of fine narrow leaves and large flowers.

Clematis Fremontii.—A low-growing herbaceous species with light purple flowers, perfectly hardy and adapts itself to any garden soil.

Cooperia pedunculata and *C. Drummondii.*—Fine bulbous plants from Texas. The flowers are white and pink. Pedunculata blooms earliest in the season and has larger and more numerous blossoms than Drummondii.

Erythronium albidum var. coloratum.—A bulbous plant from Texas. Has large white, sometimes pink flowers; a thrifty grower, great bloomer and quite hardy.

Shortia galacifolia—Its beauty is much over-rated, and it is not an easy plant to establish. The interest attached to its re-discovery after having been lost for a hundred years has made it famous.

Galax aphylla is, in my opinion, a finer plant. Its flowers are not showy, but it has such beautiful leaves, from dark green to bright crimson, and it can be grown in shade or sunshine, in dry or wet soil.

Trillium stylosum has beautiful white or pink flowers, and is very easy to grow.

Calochortus flavus comes to us from Mexico and is a beauty. The outer leaves of the flower are dark mahogany color, and not quite as open as are those of Cyclobothra flava.

Lilium Grygi.—Like L. Canadense, but the flowers are darker in color.

Nemastylis Pringlei and *N. Brunnea* are both new bulbous plants, but tender.

Tigridia buccifera has blue flowers. Tigridia Pringlei has scarlet blossoms. Both are tender and should be cultivated exactly like the older tigridias of our gardens.

Azalea calendulacea, our native flame colored species, is one of the loveliest shrubs of this continent and thrives admirably in cultivation; indeed, it is as well worth growing as any of its hybrid progeny, called Ghent Azaleas.

Hydrangea radiata is another much over-looked native shrub we should grow more of for the sake of its striking handsome foliage—deep green above and cottony paper-white below.

SOME HARDY PERENNIALS.—BY MR. GEO. W. WOOLSON, SUP'T OF GARDENING, NEW YORK CITY PARKS.

Aquilegia cærulea var. alba—This is what the seedsmen in Europe have been sending out as A. chrysantha alba. I had it from Utah some ten years ago. It is entirely distinct from chrysantha which I have never seen make any break towards a white form. (I have grown A. cærulea alba for years; it is the most elegant and beautiful white columbine known. The variety above referred to as A. chrysantha alba, so far as my experience with it extends, is not as good as cærulea alba. At first I thought it belonged to cærulea because of a bluish tinge in the white, but as the strain is not yet quite fixed, every plant has either white or yellow flowers and among scores of plants not one had blue flowers. This leads me to think that chrysantha blood is here, but not pure, because of the lesser stature and earlier blooming properties of the "new" variety. But as we all know, A. cærulea, A. chrysantha and A. truncata, in gardens have been thoroughly mixed together and given rise to an interminable assortment of so-called "Hybrids." W. FALCONER.)

Coreopsis grandiflora is commonly sent out under the name of C. lanceolata. Flowers, orange yellow. In bloom from early summer till fall. About 2 feet.

Centaurea macrocephala.—Flowers in head, 2 inches in diameter; bright yellow; June; 2 feet.

Leuzea conifera.—Flowers in cone-like bunches in June, purple; foliage whitish, pinnatifid; 12–18 inches.

Hypericum Buckleyi—A dwarf species with numerous half-inch wide yellow flowers in June; also has handsome leaves.

Echinacea angustifolia var. alba—Plant 2 to 3 feet, flowers white, 2 inches across and appearing all summer.

Pentstemon decumbens—A dwarf, spreading half-shrubby plant with spikes of deep purple flowers in summer.

Psoralea subacaulis.—A tuberous-rooted species with clover-like heads of purple flowers in June.

Geum Pyrenaicum.—Has bright yellow flowers in June; 12 inches high.

Potentilla Thurberi.—Flowers, deep red, numerous in July and August; plant 18 to 24 inches.

Serratula Tartarica—Has yellowish scabios-like flowers all summer; plant 4 to 5 feet.

Liatris pycnostachya var. alba—A fine white variety of the purple Kansas Gay Feather.

Echinosponnum macranthum—A thistle-like plant, 4–5 feet high, with round heads of light purple flowers all summer.

Echinops communtatus—Has reddish purple flowers in 2-inch heads in July and August; plant 2–3 feet.

Schœnolirion croceum—A tuberous-rooted plant, 12 to 18 inches high, with spikes of small yellow flowers in June.

Zizyophora chenopodioides.—Flowers purple, in spikes; the whole plant strongly scented.

Brachychæta cordata.—Similar to a golden rod; 18 to 24 inches high; flowers bright yellow in August and September.

Rhododendron Indicum var. obtusum came to us from Japan as Azalea amœna from which, however, it is very distinct; it has brilliant red flowers, and is an evergreen, hardy and most desirable little shrub. [CONTINUED NEXT WEEK]

OBITUARY.

GEORGE S. HASKELL.

From Rockford papers we extract the following biography of Mr. Haskell's life. He has made a brave fight in all ways and many friends will mourn the loss of him who has just gone, after meeting most of the trials that this human life is ever called on to endure:

George S. Haskell was a native of Rockford, being born Oct. 4, 1838. He was one of the first persons born in this vicinity. His parents were among the pioneers of this country and his father was a man of ability and prominence. In 1864 Mr. Haskell started the seed business which he subsequently built to such magnitude. He was a young man of 26, full of energy and vigor, and possessed of splendid business qualifications. He made his business a great success. All over this country, even in Europe the firm bore a high reputation as a seed house. Along in the 80's Mr. Haskell became enamored with silver mining and put a considerable sum of money into a mine out west, being associated with several other gentlemen. The mine did not pay and the whole of the Masonic block on West State street, which he once owned, went into that silver mine, it is said.

Mr. Haskell was a very generous, open-hearted man, always at the service of his friends and endorsed notes for an eastern business man who was a warm personal friend. This man failed about two years ago and a lot of his paper came back onto Mr. Haskell to pay. Stripped as he was by his mining speculation, this extra demand on resources swamped him and a failure resulted. It nearly broke his heart and he has never been a well man since. After having made an ample fortune in legitimate business to lose it in such a dismal investment and because he was true to a friend, preyed upon his health and he could not recover himself. He said to the writer at the time of his reverses: "It all came because I was too anxious to get rich fast." Generous always, he blamed not the friend whose notes he had signed and which precipitated his trouble. He bowed before the misfortune, and heroically accepted the blame all on himself.

But he did not sit idly down and pine away. He made a brave effort to re-establish his fortunes, and had his health been spared he would doubtless have succeeded. The seed business was purchased by a stock company composed of men who knew Mr. Haskell and trusted him, and he was put in charge. The past year has, it is said, been a singularly successful one with the business, and the future augured bright, but ever since the catastrophe Mr. Haskell has not been perfectly well and has struggled against ill-health. A few months ago he was in attendance at the state board of agriculture of which he was president when taken very ill suddenly, and since then he has grown steadily worse. His disease was dropsy, and for weeks it has been only a question of time.

In his home the hand of affliction fell most heavily upon him. His only children, two splendid sons, the pride of his life, died in the early years of manhood's estate, just when he was looking forward with keenest anticipations to a bright and promising career of business success and social position for them. George Haskell died in 1879, aged 19; and Mark in 1882, also 19 years old.

Words are feeble expressions at best under the dark shadow of a sorrow like this, but there must come some consolation to the stricken wife and sorrowing relatives to know that no man has ever gone out of this community into the mysterious unknown who bore a greater flood of affection and appreciation or who will be more sincerely mourned. Open-hearted to a fault, outspokenly frank in his opinions, with no pretense of being better than other men, he did the right as he knew the right and was not swerved from his convictions by any influences.

Lilium Auratum.

The accompanying engraving (page 43) is from a photograph sent us by A. Unger, Yokohama, Japan, who writes: "Herewith I send you a photograph showing two spikes of Lilium auratum taken from Louis Boehmer's lily field here. The long one is a normal flower stem with twenty-two flowers and buds, and the smaller one is a monstrosity with 113 flowers and buds. The bulbs of each are about equal in size and were growing in the same field. The stem of the smaller one is flat-like, pressed together, and about three inches broad where the stem is parted. So many flowers on one stem is a great curiosity, though stems with thirty flowers are found. I intend to experiment with this bulb next season and see how many flowers it will bring the next year, and how many those which now have less."



New Carnations.

BY FRED DORNER.

[*Read before the Society of American Florists at the Toronto Convention.*]

The advisability, no, I will term it stronger, the necessity of introducing and the growing of new varieties to take the place of the worn out and exhausted ones, has been demonstrated. There is a wide field of progression and improvement for any florist, whose love for the divine flower will prompt him to spend a little time and labor, in producing new varieties.

I will first call your attention to a fact which cannot be disputed, and ask the question: What has become of the varieties grown ten to fifteen years ago, varieties like Pres. De Graw, La Purite, Edwardsii and many others? I suppose they are cultivated yet, but only in certain localities. And how many of our present varieties are fast degenerating and are no longer profitable? What is the cause, and what remedy shall we apply? We will look into the first, an answer will suggest itself for the second.

I have been told that in Europe—and you will agree with me that it is here the same—they put the life, or rather the paying time to grow a variety, from six to eight years. I believe some of our varieties are even shorter lived. To my mind the cause of the degeneration, lays in the nature of the plant, in its perpetuity of growing and blooming. Although perennial we put the life of an individual plant at one year and grow new plants every season. But propagation is not reproduction, it is only a part from the old plant grown to an individual again. This process gives new life, but by following it up year after year it must degenerate. We may just as well say: We grow the first plant from seed in an endless multiplication of plants from year to year until it dies. Just the same as you grow a plant from seed, give it all the best requirements to grow and bloom, its life will be at the longest two years; propagation only prolongs its life. There is no rest in the nature of the carnation, it still keeps growing even in a low temperature, that will put other plants to rest, while actual frost will kill it. Its sisters, the hardy pink and the hardy carnation so extensively grown in Europe but only for summer blooming, rest through the winter. The ever-blooming carnation would die if subjected to the same treatment. Now for the regeneration of our degenerating varieties, nature tells us to reproduce; and the natural reproduction of all plants is only through the seed. Through this source we also receive our new varieties. We actually get a new born plant with new vitality and fresh vigor. But not only do we get new varieties; here is also the time and place to make improvements. Great predictions are made for our divine flower, and truly much can be accomplished yet. Look at the rose, the chrysanthemum and others; with rapid strides they are moving on. The divine flower will not, and shall not, stay behind. Here is a wide field for enterprising florists, who will not leave everything to chance, but calculate and experiment. They are expensive operations, but seldom losing ones, as I will show farther on with my experiments.

In this work we have to deal with factors in the nature of the carnation, which present many obstacles. And I will say here, if it were not for these difficulties, I believe we would grow all our plants from seed instead of cuttings, and thus double our crops. These difficulties are the tendency to revert back to the original, a single flower of a carnation or flesh color, and the incompleteness of the sexual organs. Like all double flowers, the double carnation is the result of high cultivation, and its doubleness becomes only part nature. Single flowers, I presume, will only bring single blooming plants again, while seed from double flowers will only produce from 40 to 50% double blooming plants; the rest will be single again. As to the incompletenes of the sexual organs, I have found flowers totally destitute of the same, few have only the anthers, while a good many have only the pistils. I never found any pollen on the Silver Spray yet, but have successfully grown seed on it, when fertilized. Many flowers have the anthers but are destitute of pollen. In most flowers, when perfect, the pollen is ripe and gone before any fecundation can take place. So if we want to grow seed we have to employ artificial fertilization. The tendency of breeding back has also a great influence in regard to color. Seed gathered from only white flowers, may produce red and pink, if some of their grand-parents, or still older ancestors were of that color. From a white and pink variety I got scarlet and deep maroon. On the other side, when successful, from Century and Grace Wilder I got excellent pink varieties, improvements on both the parents. So this running out of the line happens, but is not a rule. From 500 plants grown by me in 1889 about 250 were single, 150 bore split and imperfect flowers, some monstrosities measuring six inches in diameter. I selected 100 and grew again last year, and these were thinned out to about 25. This leaves me 5% good new varieties. Varieties with more vigorous growth, blooming more prolific than any of the present older varieties now in cultivation, and a goodly number far ahead of any in every point, not to speak of the new shades which are truly beautiful.

The expense is in growing the seed and growing the young plants to the first blooming, but this is considerably lessened by the out door culture. The seed germinates readily, the young plants grow on fast, and by the time to plant out they are as large as those grown from cuttings, and by the time to house again, most have bloomed and show what they are. True, it is discouraging to throw about 75% away as worthless, but the remaining 25% may repay you well for all your work. I give this as my own experience and think I am not far from an average. The second year's growing, or testing their merits—that is plants grown by cuttings from the seed plant—is very interesting, and what is still better, remunerative. It is a delight to see the luxuriant vigorous growth, the prolific blooming, and what a contrast when grown side by side with the older varieties. Of the 1,000 or more plants, an average of ten of each of the 100 seedlings retained and grown for a second season, beside about 300 new seedling plants, were a sight worth seeing, as some of our brother florists present here, who visited my place last January can testify. I am very sorry I did not keep an accurate record of all flowers cut, but I feel confident that it would out-number any statement made in last winter's controversy in the AMERICAN FLORIST.

But on the other side, you will meet disappointment as well as surprises. Varieties which, judging from the first blooms, I thought the climax of a carnation, subsequently produced flowers far inferior to its first blooms, and others, regarding which I was undecided whether to keep or throw away, came out on top. This shows that no varieties can be considered constant until tested a second season. It has also been plainly demonstrated that carnation culture can be made more remunerative if we supplant our old varieties from time to time with new ones grown from seed.

One variety has a longer life than another; one grows in one locality better than in another. New varieties can be grown and put on the market at a price that will enable every florist who grows carnations to try them, and select what does best with him. Every merchant praises his wares, every grower has the best new varieties. Put them within the reach of all, and the best will surely come to the surface. By the short life a variety may have it is not well to keep it back for higher prices, and then throw it on the market when half its life is spent. And only by this method of reproduction can we make and expect improvements. One should be careful in selecting the parent plants to use only the most perfect material. Strong healthy growth, long stiff stems and the most perfect flowers. Our divine flower, a flower that is in our reach every day in the year, deserves more attention. More interest is already awakened, and I am very much mistaken if we are not nearer Mr. Thorpe's ideal than he thinks himself.

Winter Blooming Plants Suitable for Decoration.

BY W. H. TAPLIN.

[*Read before the Toronto Convention of the Society of American Floris's.*]

This subject is one of much importance to a majority of the members of our society, and it is therefore with some degree of hesitancy that I have attempted its brief consideration, and also from the fact that I have been in some doubt as to the proper limitations of such a paper. The conclusion arrived at, however, is that it would be advisable to divide the subject into three heads. First, plants that bloom naturally during the winter season; second, plants forced into flower during the winter; third, bulbous plants suitable for decorations.

The first section, that of plants whose natural season of flowering falls in the winter, probably comprises the shortest list, for while there are many winter flowering plants, yet all are not adapted for the purpose in view, there being in the opinion of the writer some special qualifications necessary in order to render a plant valuable for this particular use. Some of these qualifications may be briefly stated as follows: Shapely or graceful form, decided color, moderate rapidity of growth, and last, but certainly not least, the quality of being easy to grow under ordinary conditions, for on the latter attribute largely depends the popularity of most plants used for decorating.

Among the plants of the first section the poinsettias deserve a more prominent place than has been accorded them of late years, for where vivid coloring is wanted they meet all requirements, and as the bracts of these plants keep in good condi-

tion for several weeks, there need be but little loss from waste of flowers. The original variety, P. pulcherrima, is perhaps the most satisfactory for all purposes, though the double form of this is also extremely showy, and keeps well, too, providing that water is not allowed to lodge among the bracts. P. pulcherrima major is also pretty, the color being crimson, rather than the scarlet of the type, and either of these, to become useful for decorations, should be stocky, well grown young plants from summer cuttings of soft wood, and which may be made to produce one large head of bloom on a well furnished plant in a 5 or 6-inch pot.

Plumbago rosea coccinea is another brilliantly colored winter flowering plant, the terminal spikes of which are clothed with bright red flowers about one inch in diameter. Of course, this is not by any means new, but may possibly find a more extended opening in the future than it has in the past, being easy to propagate and flowering with the least encouragement.

The cinerarias, too, have been wonderfully improved of late years, and not only in size and color, but also in methods of cultivation, the chief requisites of the latter appearing to be a cool, moist atmosphere and generous treatment in the matter of fertilizers. And in order to keep up a succession of these useful plants it is well to make more than one sowing of the seed, the latter to be of the best strain that can be secured.

Yellow flowers are somewhat scarce among the winter flowering plants (with the exception of chrysanthemums) and an old fashioned though pretty subject of this popular color is Reinwardti trigyna, perhaps more readily recognized under its former name of Linum trigynum, and which may be grown into bushy little plants in 5 or 6-inch pots with very little trouble.

Erica hyemalis, now frequently seen during the season in the larger cities, is probably the most useful of its family for our purpose, being of free growth when given reasonable care, while its long sprays of rosy tinted flowers give an additional charm to many a tasty decoration.

Libonia floribunda still finds a place among useful plants, for although its red and yellow flowers are small they are produced in such profusion as to be quite showy, and the plant is also capable of enduring much neglect without great injury.

It hardly seems necessary to remind the members of this society that chrysanthemums should be included among our decorative plants, this fact being already well proved. And the only suggestion offered in this connection is that none but distinct colors be grown for this purpose, and only sorts enough to insure a proper succession of bloom.

Pot plants of carnations, bouvardias, roses, some of the begonias and eupatoriums and other well known plants will naturally suggest themselves to the decorating florist, and therefore do not call for any extended notice in the present instance.

Primula sinensis in variety comprise a useful group for winter work, not the least important member of this interesting family being the double white variety, and as the single flowered forms found in some good strains vary from white to dark red, and also include all shades from pale lilac to almost blue, there is sufficient range of color to satisfy the most fastidious.

Coming now to our second heading, that of "plants forced into flower" for decorative use, we find a considerable variety to choose from, though largely found among familiar species. Very near to the head of the list, if not fully occupying that enviable position, are many of the splendid varieties now found among the Indian azaleas, the merits of which have often been discussed before. It may be noted, however, that Deutsche Perle, Fielders' White, and Borsig are among the most satisfactory whites, while Mme. Vander Cruyssen, Eugene Mazel, Vervaeneana, and Bernhard Andreas are fully able to sustain the reputation of the colored varieties.

Some of the rhododendrons also will bear further investigation regarding their utility as plants for winter decorations, there being no great difficulty in forcing some of the hardy varieties, while some of the hybrids produced among the East Indian species bloom at almost all seasons. Among the latter there are many notably beautiful varieties, and if they can be reproduced in quantity at a reasonable cost they would doubtless find a ready market.

A large number of hardy shrubs are now included in the forcing list, prominent among which are the lilacs, these being classed with the most popular from two reasons: Their beauty, and the ease with which they may be forced. Pyrus japonica has also proved easy to force into flower, though the flowers so grown are much paler in tint than those naturally produced, and some of the shrubby spiræas are satisfactory under similar treatment, one notable instance being S. Thunbergii, which produces its pure white flowers with as much freedom as does Deutzia gracilis.

The hydrangeas must not be omitted, there having been several handsome varieties added to the list within recent years, though most of these varieties appear more satisfactory toward spring. The method often adopted of growing on summer rooted cuttings of hydrangeas into nice little plants in 4 or 5-inch pots and bearing one head of bloom, gives some useful stuff for winter and spring use.

Has the Crape myrtle (Lagerstræmia indica) been thoroughly tested for winter forcing? If not, it may be worth trying, for either the white or pink variety would be an admirable addition to the stock of decorative plants, providing they are well flowered.

Acacia pubescens (and several other species of the same genus) may be used to supply pale yellow flowers, and the well-known gracefulness of these plants should secure them a place anyway, while Cytisis canariensis and C. racemosus furnish a deeper shade of the same color and are really invaluable for decorating.

Having now arrived at our third heading, "Bulbous plants for winter decorations," one of the first to suggest itself for mention is Cyclamen persicum, a plant that seems to be gradually coming to the front again after some years of comparative neglect.

Of course, cyclamens have been much improved by careful fertilization, and are consequently more valuable now to the florist, and in addition there have been some changes made in methods of cultivation, the most approved now being the system of growing on the plants from the seed to flowering size without any period of rest or drying off process, the whole operation being completed in from fifteen to eighteen months. It should also be remembered that "the best is the cheapest" as regards cyclamen seed, and by starting with a good strain and then carefully selecting some of the best plants for seed bearing it is possible that the stock may be still more improved in future seasons.

Liliums Harrisii and longiflorum should not be forgotten, as with proper handling these may be had in bloom in successive lots all through the winter and spring. Some of the amaryllis also force well and their showy flowers appear to advantage among a mass of foliage plants.

A selection of Dutch bulbs is one of the essentials for the complete equipment of the decorating florist, among the most useful being tulips, daffodils and other narcissi and hyacinths, and one point worthy of remembrance in choosing tulips and hyacinths is to have none but clear, distinct shades, these being naturally the most satisfactory when endeavoring to form a combination of color in a decoration.

In conclusion it will be understood that all the plants here referred to are not claimed to be profitable in all localities, the question of suitableness rather than profit having been the one under consideration, though in a majority of the examples cited the latter point has also been remembered.

The Shepherd's Crook.

The shepherd's crook, seen in the illustration (page 45), is sometimes used with good effect in place of bouquets or baskets for bridesmaids.

The Directoire stick is much the same style, with the exception that instead of a crook on the end it has a knob. Such sticks are carried by Mme. Bernhardt and lesser lights in La Tosca and by Lillian Russell in the Grand Duchess. How gracefully these women carry them goes without saying.

In recommending such arrangements for weddings, many things should be considered. They are especially suitable for a church wedding in spring or fall, when it would not be out of place for the bridesmaids to wear very light, airy gowns and large Gainesborough hats. But they are at their best at a suburban wedding, when there is often a little walk to the church door. It is wise also to consider the people to whom you recommend them, none better than young society ladies who are accustomed to extravagant dressing and apparently unconscious when they are the observed of all observers, for the success of the arrangements all depends upon the grace and ease with which they are carried.

Mr. Alfred Jingle would describe a wedding of this kind something in this fashion: "Egad, 'twas fine—old church—ideal wedding—sun shining—birds singing—organ pealing—flowers blooming—big crowd—carriages roll up—bridal party arrives—dainty feet on carriage steps—smiling faces—bride in white, like a lily—another beauty—hair as black as the raven's coat—eyes that look right through you—big bunch red roses—another beauty—eyes as blue as the soft sky—hair so light that it melts into the sunshine—pink roses. Egad, the color of her cheeks, and all carrying Directoire sticks and with such grace that it takes one back to Paris. 'Big odd,' 'twas the prettiest wedding of the season."

H. H. BATTLES.

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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

Duty on Plants—Two Decisions.

NURSERY STOCK—CERTAIN GRAPE VINES DUTIABLE AS.

Before the U. S. general appraisers at New York July 13, 1891.

In the matter of the protest, 11,695 *a*, of Peter Henderson & Co., against the decision of the collector of customs at New York as to the rate and amount of duties chargeable on certain grape vines, imported per *Aurania*, March 24, 1891.

Opinion by SHARRETTS, *General Appraiser.*

The goods covered by the present protest are "black Hamburg grape vines." Duty was assessed upon the same at the rate of 20 per cent. ad valorem as for nursery stock under paragraph 282, act of October 1, 1890. The appraiser reports that "the importer claimed on entry that the vines were free of duty, under paragraph 666, N. T., as plants for forcing under glass for cut flowers," etc. This contention was abandoned, however, and in lieu thereof a protest was duly filed in which the importers claim "that said goods should be admitted free of duty under paragraph 577 of the act of October 1, 1890, as fruit plants, tropical and semi-tropical, for the purpose of propagation or cultivation."

We are of the opinion that the vines in question are not the tropical or semi-tropical plants embraced within the terms of the statute.

Many plants indigenenous to tropical countries have by cultivation become common to colder climates. Vines such as these were not intended to be admitted free under paragraph 577, N. T. That paragraph provides for plants which are themselves natives of tropical or semi-tropical countries, or which have not lost their tropical or semi-tropical characteristics by propagation in other countries.

This ruling is in harmony with the long-established practice of the treasury department. (See synopsis 1746.) We find (1) that the black Hamburg grape vines in question were imported for propagation or cultivation; (2) that they are not tropical or semi-tropical fruit plants.

The protest is overruled and the action of the collector affirmed.

NURSERY STOCK—FRUIT AND FOREST TREES AND HARDY SHRUBS.

Before the U. S. General Appraisers at New York, July 13, 1891.

In the matter of the protest, 9858 *a* and others, of Messrs. Healy & Earl and others, against the decision of the collector of customs at New York as to the rate and amount of duties chargeable on certain fruit and forest trees and hardy shrubs for ornamental purposes, imported per vessels named in the accompanying schedule.

Opinion by SHARRETTS, *General Appraiser.*

The articles in the present case were fruit and forest trees invoiced as filbert, horse-chestnut, linden, mountain ash, pear, plum, cherry, mulberry, etc., and hardy shrubs invoiced as calycanthas, snowball, althea, etc. Duty was assessed upon the merchandise at 20 per cent. ad valorem under paragraph 282 Act of October 1, 1890 as for "Nursery Stock."

The protestants claim "that the terms decoration and ornamental are synonymous, and for that reason all kinds of ornamental nursery stock are entitled to free entry under section 666 of the Act of October 1, 1890.

The Board has repeatedly held that paragraph 666, N. T., provides only for plants such as are chiefly grown under glass. In the present case we find that the trees and shrubs covered by the protest are commonly known as nursery stock, and are not such as are chiefly grown under glass, for cut flowers for decorative purposes.

The protest is overruled and the action of the collector stands affirmed.

JOHN A. SUZER, of Suzer Seed Co., is seriously ill with Bright's disease at La Crosse, Wis.

MR. LEM BOWEN, treasurer of D. M. Ferry & Co, has returned from a three months' trip in Europe.

News Notes.

SALT LAKE CITY, UTAH.—James Dwyer is building a greenhouse 21x70.

AURORA, ILL.—Irving J. Budlong has succeeded J. A. Freeman at 185 Pennsylvania avenue.

SOUTH CHARLESTON, O.—C. S. Buttin has built a greenhouse here and will grow flowers for the local trade.

CINCINNATI.—Henry Schwarz, formerly gardener for O. J. Wilson, has started in business near the old St. Joseph's cemetery, and will at once erect two houses 16x60 each.

COLLINSVILLE, ILL.—The Collinsville Nursery Company has been incorporated with capital stock of $1,000. The incorporators are John W. Staley, F. Osins, and Louis F. Lumaghi.

NEW ORLEANS, LA.—It has been decided that the coming chrysanthemum show of the New Orleans Hort. Society will be held November 17, 18 and 19, at Odd-Fellows' Hall. All exhibits for competition must be entered and placed before noon on the 17th.

MILWAUKEE, WIS.—Wm. Edlefsen is building four new houses and putting in two more boilers. Two of the houses are for roses, one for ferns and one for violets. He has also added to his business quite an establishment which he calls a wreath factory. It is a two-story building in which are employed a number of young ladies making wreaths of dried flowers, of various sizes and patterns. Mr. E. has discovered a very effective remedy for mildew but wishes to experiment further before explaining to the trade. Archie Middlemass has begun the erection of two new houses, 13x60 each, for carnations. Ben Gregory has built a large house for boarding large plants, and is making arrangements for using oil instead of coal for fuel the coming winter.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a first class gardener and florist, thoroughly experienced in all branches. W N, 91 South St., Auburn, N. Y.

SITUATION WANTED—By an experienced florist and gardener; married; small family; aged 35; understands his business thoroughly. Address X W, Postoffice, Bath, Me.

SITUATION WANTED—By a landscape gardener; 25, single; can draw own plans or will work as assistant. Has a good knowledge of orchids. Address H, care American Florist, Chicago.

SITUATION WANTED—By a young man who has 11 years' experience in the growing of roses, ferns, palms, orchids and greenhouse plants. Address L, Flushing, Long Island, Postoffice box 121.

SITUATION WANTED—By practical working gardener as grower of roses carnations, violets and all kinds of greenhouse plants; 20 years' experience; married; age 35; disengaged Sept. 1. Address G, Box 54, Short Hills, N. J.

SITUATION WANTED—By an experienced gardener, single, either private or commercial; fully understands his business. Can furnish first class references. Address J E, care Am. Florist, Chicago.

SITUATION WANTED—As propagator and grower of roses, rhododendrons, clematis, stove and greenhouse plants. Commercial, or would accept position as second in private place. Address C M, 208 Dartmouth St., Boston Mass.

SITUATION WANTED—By a German florist, married; no family; long experience in all branches of horticulture; best of references; prefers to go South. Address G K, Postoffice box 410, Princeton, Ill.

SITUATION WANTED—As head gardener on private place by Englishman; aged 39; married; 25 years' experience; proficient in all branches; strictly sober and reliable; best of references. ROBERT ADDICOTT, Box 145, Glendville, Ohio.

SITUATION WANTED—By a thorough, practical gardener, who understands the forcing of roses and all kinds of flowering plants, fruits and vegetables, also grapes, both in open ground and under glass; best of references from last two employers. Address J. SCOTT, Millbrook, Duchess Co., N. Y.

SITUATION WANTED—By a practical gardener as manager of private or public grounds or large commercial plant; thorough knowledge of all branches. A successful collector and hybridizer of orchids; unexcelled in palms, stove plants, roses, grapes, etc.; rockery and landscape gardening; 20 years' experience; unexceptional references; sober; married with small family. Only a first-class position required. Address BOTANIST, Niagara Street, Pittsburg, Pa.

WANTED—A second-hand steam heater in good condition, 8 or 10 horse-power preferred. H. W. LEE Linwood, Ind.

WANTED—To lease or buy greenhouses, dwelling and land, near good market. Address H. WISE, Mt. Prospect Ave., Newark, N. J.

WANTED—A man to assist in greenhouse work; experience necessary. Wages $40 per month. Address P. O. Box 356, Maywood, Ill.

WANTED—A thoroughly competent rose grower, capable of managing a large establishment. Apply HORTICOLE. Grand Central Hotel New York City.

WANTED—A second-hand No. 22 Hitchings base burning water heater with expansion tank; must be in good order and cheap for cash. JAMES H SMITH, Milan, Ohio.

WANTED—A man who has been successful in the management of a first class horticultural establishment, including a knowledge of forestry. Apply HORTICOLE, Grand Central Hotel, New York City.

WANTED—A practical florist, single man who thoroughly understands growing roses and general greenhouse stock. Send recommendations, stating wages wanted to MRS J. P. BEAN & Co., Mt. Pleasant Iowa.

WANTED—A first class floral designer and decorator of ability and good address, for a cut flower and plant trade. Address stating experience, particulars and wages expected. J. A. PETERSON, 41 W 4th St., Cincinnati, O.

WANTED—At St. Augustine, Fla., for 3 months' engagement, commencing January 1, a young woman who is a thorough artist in the arrangement of cut flowers; must be quick and of pleasing address; one from near New York preferred. Address giving age and experience. FLOWER DEPARTMENT OF EL UNICO, Postoffice box 2832, New York City.

WANTED—First class man to take charge of a private place. Must be well up in all branches of his profession. Will be furnished good house, spare vegetables in their season and two quarts of milk daily. Must board men in his employ. Address giving previous experience, references, nationality, age, size of family and wages desired. SAMUEL THORNE, Millbrook, Duchess Co., N. Y.

FOR SALE—Seven greenhouses in Chicago, well stocked with general line of florist stuff. Four year lease of ground. Heated with hot water. Will sell for $2,000 cash. Address H R, care American Florist.

FOR SALE AT A BARGAIN.

Through sudden illness a good business in a thriving western town; 5,500 feet of glass, well stocked with everything needed for the coming season's trade. Proof, profits for the past season $1,033. The property includes a handsome house of 8 rooms, a large barn to match, wagon-shed, etc., five lots on one of the best residence streets, near depots and electric cars; supplied with city water, lighted all through with electric lights; heated by steam. Nearly two-thirds of purchase money can remain at 6 per cent. Address WESTERNER, care American Florist.

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

August 25–Sept. 4, Detroit, Mich.—Annual exhibition of plants and flowers in connection with Detroit International Fair and Exposition. B. Schroeter, Supt. Hort. Dept., corner Elmwood avenue and Champlain street.

September 1–2, Springfield, Mass.—Annual exhibition Springfield Amateur Hort. Society. G. H. Lapham, Sec'y.

September 1–4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society. Thomas Vair, Sec'y.

September 8–10, Hartford, Conn.—Fall exhibition Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

September 15–17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

October 27-31, Los Angeles, Cal.—Annual exhibition Southern California Hort. Society. H. W. Kruckeberg, Sec'y, Los Angeles, Cal.

November 2-7, Louisville, Ky.—Chrysanthemum show Louisville Florists.

November 2–8, New York—Chrysanthemum show Madison Square Garden. J. W. Morrisey, Sec'y, Madison Square Garden.

November 3-5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

November 3–6, Boston.—Chrysanthemum show Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 3–6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club. W. H. Ellis, Sec'y, 133 Mason St., Milwaukee.

November 3–7, Detroit, Mich.—Chrysanthemum show Detroit Florists. Robert Flowerday, Sec'y, 460 John R. street.

November 4–6, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

November 4–6, Wooster, O.—Exhibition Wooster Floral Club. W. A. Porter, Sec'y.

November 5–7, Erie, Pa.—Chrysanthemum show Erie Chrysanthemum Club. H. Tong, Sec'y.

November 5–11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y, 811 North Water street.

November 10–12, Pittsburg—Chrysanthemum show Pittsburg and Allegheny Florists' and Gardeners' Club. G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society. John Butler, Sec'y, Berkeley Ave.

November 10–12, Toronto, Ont.—Chrysanthemum show Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School, Toronto.

November 10–12, New Bedford, Mass.—Chrysanthemum show New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.

November 10-12, Washington, D. C.—Chrysanthemum show Washington Florists' Club. Engene Cadmus, Sec'y, 1419 R St. N. W.

November 10-12, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society. Wm. Gammage, Sec'y, P. O. box 155.

November 10–12, Oshkosh, Wis.—Chrysanthemum show Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.

November 10–13, Philadelphia.—Chrysanthemum show Penna. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

November 10–13, Chicago.—Fall exhibition Horticultural Society of Chicago. James D. Raynolds, Sec'y, Riverside, Ill.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.

November 10–13, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.

November 10–14, Indianapolis.—Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.

November 11–12, Worcester, Mass.—Chrysanthemum show Worcester County Hort. Society. Edward W. Lincoln, Sec'y, 5 Oak St.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society. Thos. Vair, Sec'y.

November 11–12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.

November 11-13, St. Louis.—Chrysanthemum show St. Louis Florists' Club. S. Kehrmann Jr., Sec'y, 21 South Broadway.

November 11–13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St.

November 11–13, Utica, N. Y.—Fall exhibition Utica Florists' Club. J. C. Spencer, Sec'y.

November 12-14, Buffalo.—Chrysanthemum show Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.

November 17–19, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society. Chas. Wise, Sec'y, Third and Prytania Sts.

November ———, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society. Thos. E. Meehan, Sec'y.

November ———, New Haven, Conn.—Chrysanthemum show New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 478 Orange street.

November ———, Syracuse, N. Y.—Chrysanthemum show Central New York Hort. Society. H. Youell, Sec'y, 228 Beecher street.

November ———, San Francisco.—annual fall show California State Floral Society. Emory E. Smith, Sec'y, 321 Market St.

November —— ——, Little Rock, Ark.—Chrysanthemum show Little Rock Florists' Club. D. M. Tipton, Sec'y.

THE California State Floral Society has issued a premium list for its third annual fall exhibition, which will be held in October or November next, exact time and place to be announced later. Prizes for plants and cut flowers are offered in three classes: 1, Open to amateurs who do not employ skilled labor; 2, open to amateurs who do employ skilled labor, and 3, open to professionals; and there is another class open to all. This division may be suggestive to other organizations. The cash prizes amount to $230, and there are also offered two silver cups, eight silver and three bronze medals, and about $300 in special prizes. Copies of the premium list may be had on application to the secretary, Mr. Emory E. Smith, 321 Market street, San Francisco, California.

THE Horticultural Department of the Worlds Fair is still unorganized. At the meeting of the Directory last Friday evening, the appointment of Mr. J. M. Samuels was presented, but action on same was deferred. Under these circumstances the Director-General delegated Chief Allison of the Machinery Department to attend the S. A. F. convention at Toronto in the interests of the Horticultural Department.

IN THIS ISSUE we present a report of the opening of the Toronto convention, pretty complete we think in view of the fact that we had to go to press Wednesday morning. A report covering all details not presented in this issue will appear next week.

A CORRESPONDENT at Kosciusko, Miss., writes that the rose Climbing Perle des Jardins is a grand success there, surpassing in growth all the other climbers, the blooms not quite so deep in color as the Marechal Niel, but larger in size.

Joints—Without Rheumatism.

EVERLASTING HILLS JOINT.

Ten pounds ground litharge, four pounds Paris whiting, one-half pound yellow ochre, two pounds dry red lead, one-half ounce of hemp cut in one-half inch lengths. Mix well with boiled linseed oil to the consistency of thick putty. This cement will resist fire and will "set" in water.

THE USUAL THING.

Red lead in oil calked with oakum. Joints made with this can be taken apart by heating, (if you have plenty of time and heat).

THE PURSLANE JOINT.

Best Portland cement calked with oakum. If you use this joint its strength and persistence may not dawn on you until you try to get rid of it.

THE —— JOINT.

Fine iron borings, gnawings from a file or any other wearing and grinding of iron or steel. With a sprinkling of sulphur and sal ammoniac moisten slightly, make joint with rapidity and you can almost hear it grow together. What in this manner the AMERICAN FLORIST joins together let no man put asunder. The nomenclature of this joint is respectfully referred to proper committee.

Chicago. FRANK DAN BLISH.

[The above was kindly prepared by Mr. Blish at our request in response to a query by a subscriber as to best method of joining four-inch hot water pipes. Mr. B. knows several things about joints as well as the construction of boilers of the "flat top type."—ED.]

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Roses, Niphetos, Gontiers	2.00 @ 3.00
" Perle, Sunset	2.00 @ 4.00
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" La France	4.00 @ 6.00
" Hybrids	2.00 @ 6.00
Carnations	.50 @ 1.00
Asters	.50 @ 1.00
Lily of the Valley	4.00
Tuberoses	.50
Sweet peas	.10
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Pink pond lilies	8.00
Smilax	10.00 @ 12.00
Asparagus	50.00
Adiantums	1.00 @ 1.50

PHILADELPHIA, Aug. 17.

Roses, Beauties	8.00 @ 15.00
" La France, Albany	3.00 @ 4.00
" Mermets, Brides	3.00
" Perles, Niphetos	2.00 @ 3.00
" Gontiers	1.00
" Marie Guillots	2.00
Valley	5.00
Carnations	1.00
Asters	1.00
Tuberoses	5.00
Sweet peas	.35
Adiantums	1.00
Smilax	15.00

NEW YORK, Aug. 17.

Roses, Gontiers, Niphetos	1.00 @ 2.00
" Perles, Cusins	1.00 @ 2.00
" Watteviles	1.00 @ 2.00
" Mermets, Brides	1.00 @ 3.00
" La France, Albany	2.00 @ 4.00
" Beauties	2.00 @ 15.00
Carnations	.50
Smilax	6.00 @ 12.00

CHICAGO, Aug. 18.

Roses, Am. Beauties	8.00 @ 10.00
" La France, Albany	3.00 @ 3.50
" Perles, Niphetos	2.50 @ 3.00
" Brides	4.00
" Mermets	2.00 @ 3.00
Carnations, long	1.00
Carnations, short	.50 @ .75
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Tuberoses, long	1.50 @ 2.00
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ED. AM. FLORIST:—We note your remarks in July 20 issue concerning Express Rates and wish to place ourselves on record as heartily in sympathy with the movement suggested. When it comes to an assessment we are in it. We have many complaints of the exhorbitant rates charged by the Southern Express Company. PIKE & ELLSWORTH.
Jessamine, Fla.

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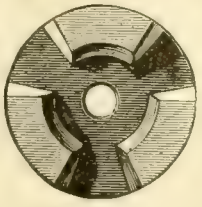
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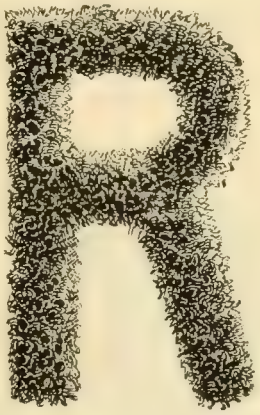
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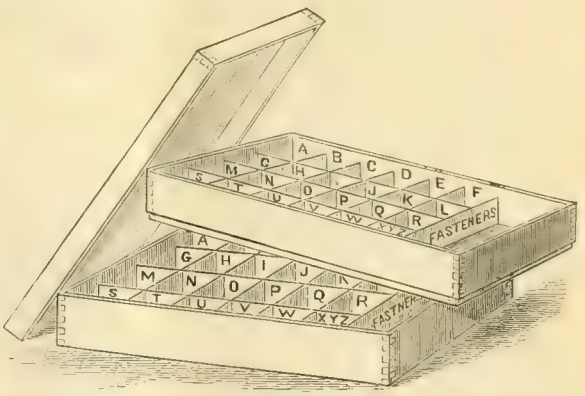
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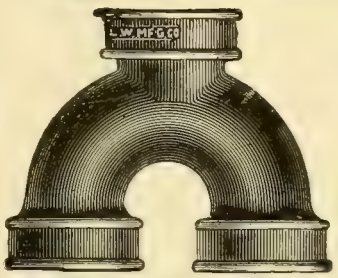
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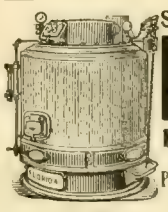
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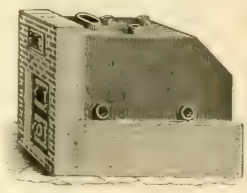
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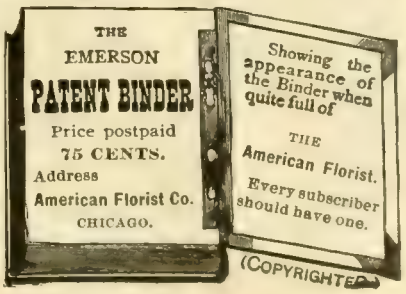
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Can some reader of the FLORIST tell me how to get rid of the chrysanthemum bug? I have tried many things but none have had the desired result. They seem to grow fat on Paris green—at least it does not harm them. AUG. S. S.

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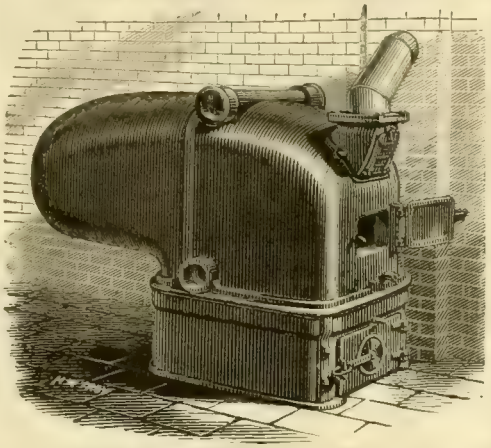
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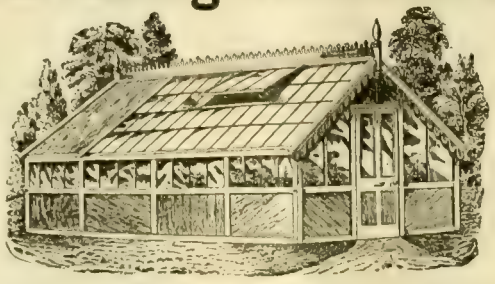
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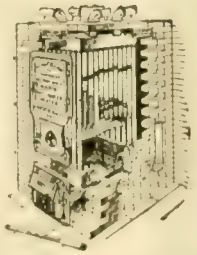
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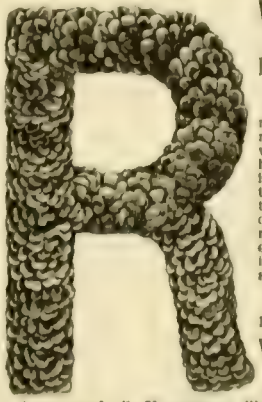


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Vol. VII. **CHICAGO AND NEW YORK, AUGUST 27, 1891.** **No. 169.**

THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

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PRESIDENT James Dean and Vice-President Wm. R. Smith make a powerful team and under their leadership we may expect to see the Society of American Florists maintain if not exceed the progress it has made in the past.

WE SHALL MEET at Washington next year. Everybody wants to visit the National Capital, and without doubt the convention of 1892 will be the largest in the history of the society.

WHEN sending us small amounts in postage stamps, please select those of the 2-cent denomination.

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The Toronto Convention.

The Toronto convention of the Society of American Florists is now a matter of history, and in spite of previous apprehensions on the part of some as to the expediency of meeting outside of the confines of the "States" it will be recorded as decidedly one of the best conventions ever held by the society. The attendance was large and those present were unusually earnest in the work of the sessions. But the entertainment feature was not overlooked, by any means, and how the Torontonians did entertain! Between the sessions of the convention it was one continual round of festivities, and good-fellowship reigned supreme. But first, to the work of the society. In this issue we will attempt to cover all the main points not given last week, and reserve for another issue the final "clean-up." All of the essays presented were of decided merit, so that selection is difficult and we shall publish at least a majority of them in full as fast as space is available.

The treasurer's report showed that the society's income during the past year was $3,344.87, and the expenditure $2,318.32, leaving a balance on hand of $1,026.55.

Mr. James Allison, acting chief of the Bureau of Horticulture of the World's Columbian Exposition, was present, and in a half hour's address told the society of the preparations that were being made for the horticultural exhibit at the great fair. He described the horticultural building and caused to be displayed on the walls of the convention hall engravings of the various buildings and plans of the exposition grounds. He asked the co-operation of the society and desired to know its wishes regarding any details in which the members were interested. A committee of five was appointed to confer with Mr. Allison on the subject. The conference was held and Mr. Allison expressed himself as well pleased with the advice and information he had received. Later the committee presented a report to the society recommending (1) immediate action for obtaining plants; (2) the making of arrangements for ample outdoor space at the fair; (3) the obtaining of the co-operation of keepers of private conservatories; and (4) that united action be taken to make the exhibit of the florists a success. The president appointed Messrs. John Chambers, Toronto; Robert Craig, Philadelphia, Pa.; John S. Bush, New York; H. A. Siebrecht, New York; and F. L. Harris, Wellesley, Mass., a committee to carry out the views of the society in this matter, and they were requested to endeavor to make the exhibit of plants and flowers at the World's Fair as fine as possible. Mr. Allison said he recognized the necessity of conforming to the expressed wishes of the society and that he would urge upon the director general the various points made. It was moved by James Dean and seconded by John Chambers that whereas, John Thorpe, the father of this society, has signified his willingness to accept the office of chief of floriculture of the World's Fair, Chicago, be it resolved that this society give to him its heartiest endorsement. The resolution was adopted.

The committee appointed to consider the advisability of the society recommending a man for the position of chief of the bureau of horticulture of the World's Columbian Exposition reported: "That it is the sense of this committee that it is inexpedient for the S. A. F. to present any name for the position, but that the society is prepared to endorse any man of high character, broad views, and good executive ability. Such men, for instance, as Wm. C. Barry, Rochester, N. Y.; P. J. Berckmans, Augusta, Ga., or J. DeBarth Shorb, California."

Washington, D. C., was selected as the place for holding the convention of 1892 and officers for the ensuing year were elected as follows: James Dean, Bay Ridge, N. Y., president; Wm. R. Smith, Washington, D. C., vice president; Wm. J. Stewart, Boston, secretary; M. A. Hunt, Terre Haute, Ind., treasurer.

The executive committee was given power to wait upon the United States government with the view of securing uniformity in the valuation of imports.

NOTES.

THE Convention Hall presented a truly international appearance, the Union Jack and the Stars and Stripes being given each about equal prominence in the decorations and they blended together almost as harmoniously as did the visitors and their hosts.

MAYOR CLARKE'S address of welcome was supplemented by words of a similar kindly character from Aldermen Score, Orr, Hallam and Leslie and Warden Massie, of the Central prison. The latter invited the delegates to visit the institution over which he presides, and assured them that they would all be permitted to return at their pleasure.

MR. THOMAS MANTON and his assistants handled the trade exhibit like old hands at the business, and spared no effort to give every assistance in their power to those making displays. The recipients of these attentions felt that some expression of appreciation was in order, and it took form in the presentation to Mr. Manton of a handsome gold watch and chain, another handsome present being also given to Mr. Walker.

THE meeting of delegates from florists' clubs was held and some good accomplished, though not nearly as much as had been hoped. It is a matter of regret that several gentlemen who had matters to bring before this meeting were unable

to be present, owing to other important engagements.

MR. BEATTY'S essay on "Credits" contained some points worth very careful consideration. We shall probably print it in full in a subsequent issue.

RESOLUTIONS of thanks were unanimously passed to the Florists' and Gardeners' Club of Toronto, the mayor, city council and citizens, Alderman Hallam, Warden Massie, the authorities of the Victoria rink, and the press.

A PORTRAIT of President James Dean will appear in next issue.

THE report of the secretary of the Hail Association showed that during the year $638.13 had been received in membership fees and $23.98 for reinsurance of glass broken. The total amount in the hands of the treasurer, after paying all losses and expenses for the year, was $1,170.40. Messrs. J. C. Rennison, Sioux City, Iowa; J. D. Carmody, Evansville, Ind.; James Horan, Bridgeport, Conn.; B. F. Dorrance, Wilkesbarre, Pa.; Edwin Lonsdale, Philadelphia, Pa.; Julius Roehrs, Carlton Hill, N. J., and J. M. Jordan, St. Louis, Mo., were elected as the board of directors for the ensuing year. Some amendments were made to the constitution. The officers elected were: Mr. J. M. Jordan, St. Louis, president; Mr. J. D. Carmody, Evansville, Ind., vice president; Mr. J. C. Vaughan, Chicago, treasurer; Mr. John G. Esler, Saddle River, N. J., secretary.

The Entertainments

A CARRIAGE RIDE.

On Tuesday afternoon the ladies were treated to a drive through the principal streets of Toronto, and after being shown the public buildings and private residences they were taken to Island Park, where refreshments were served. The ladies were afterward joined at the park by a large number of the members of the society and all enjoyed the outing.

ALDERMAN HALLAM'S GARDEN PARTY.

Wednesday afternoon the members attended the garden party tendered by Alderman Hallam at his residence at Rosedale, where that gentleman has grounds of great natural beauty which is being developed with wisdom and taste. Refreshments were served in tents and the band of the 10th Royal Grenadiers played a number of selections. A number of toasts were proposed and appropriately responded to and there was singing and recitations. The weather was perfect and all present heartily enjoyed themselves.

BANQUET.

On Thursday evening, after the bowling contest, there was a banquet at Webbs, at which the prizes were presented to the winners, and a general good time was had. Mr. J. N. May presided.

EXCURSION AND BANQUET.

Friday noon found the visitors on board the Eurydice for a sail on the lake. After a few hours afloat a landing was made at Exhibition Park, and after an inspection of the beautiful grounds and elaborate exhibition buildings all were invited to enter an annex to the main building, in which were discovered tables at which the whole party was seated and began to partake of the good things provided. After these had been disposed of, Mr. John Chambers, president of the Toronto Club, who presided, proposed a toast to "The Queen," which was responded to by all singing the British national anthem, accompanied by the band, which was with the party both afloat and ashore.

"The President of the United States" was honored with "The Star Spangled Banner" and a pleasant speech from Mr. E. G. Hill, of Indiana. He made some flattering remarks about President Harrison and the interest he had taken in the exhibition of chrysanthemums in the city of Indianapolis. The only danger of international complications he said in conclusion, was from the fact that the young men who came over had been looking after the Canadian girls, and that could be settled by the highest court of appeal—the girls themselves. He concluded by expressing his gratitude for the reception and entertainment that had been freely tendered by the people of Toronto.

Mr. Chambers next proposed "The Mayor and Corporation," calling on Ald. Hallam to respond. On behalf of the mayor, he said, speaking as a florist, he thought his worship was rather too fond of one special variety, the orange lily; yet he knew that the mayor had a good warm Irish heart.

Ald. Gibbs was next called, and spoke of Toronto as a moral and Sabbath keeping city. The crowd that was regularly turned out of the hotels at 11 o'clock every evening of the week and at 7 o'clock on Saturday evening was very small compared with the great throngs turning out every Sunday to attend divine worship. The remarkably good conduct prevailing during exhibition week each year, when a visitor might walk the grounds all day without seeing a drunken man or hearing a profane word, was a feature of which the city should be proud.

Ex-Ald. Frankland followed with an allusion to the passage by Kingsley, in which the author says that the leaves have a language, the grasses speak of the mysteries of nature and the roses have power to restore amity of feeling and good-will. There had been talk, he said, of war to the knife and of struggles for conquests between Canada and the United States. The American florists had come over here and had been taken, and seemed to be comfortable under the circumstances. He would not have known that there was an imaginary line between the two countries were it not for the interference of the customs officers. And we injured ourselves as much as any other country could injure us. On his last visit to England he had bought some presents for his wife that he did not wish any one to see, but the customs officer must meddle with them. "And, ladies and gentlemen," he said in conclusion "if you had seen that great coarse man, with a fist the size of a shoulder of mutton stirring about and turning over those presents, you would have felt as I did."

Ex-Alderman Tait, the next speaker, was in a happy vein. He was sure the Americans would not object to the Canadian habit of speaking in praise of themselves and their dignity, for it was something in the American line. The humanizing influences of these meetings would lead the people to discuss questions, not as if the two nations were opposed to each other. He hoped that the feelings prevailing in conventions would soon prevail in all walks of life, and then the thing that Ex-Ald. Frankland had complained of would disappear from the land.

"The Society of American Florists" was responded to by the retiring president, Mr. M. H. Norton, who thanked the Toronto florists for the days and nights of entertainment that they had furnished. He called for three cheers for the Toronto Gardeners' and Florists' Club, for President Chambers and for the ladies. All were responded to with a will. He concluded by reading a resolution from the visiting ladies thanking the ladies and gentlemen of the Toronto Gardeners' and Florists' Club for the kind courtesies and social favors tendered.

Judge Hoitt, of Nashua, N. H., responded to the toast "The Ladies" in an address in which wisdom and humor were nicely blended.

Mr. M. H. Norton proposed "The Toronto Gardeners' and Florists' Club." Responses were made by Mr. John Chambers, Mr. George Vair, Capt. McMaster, Ex-Ald. Joseph Tait and Mr. J. H. Dunlop.

Short addresses were also made by Secretary Wm. J. Stewart, Robert Craig, J. M. Jordan and Alderman Score. The latter on invitation from Mr. Chambers sang "Good-bye, Sweetheart, Good-bye" in a very effective manner, and Mr. Robert Craig favored the company with "Annie Laurie."

The finale was the presentation to the retiring president, Mr. M. H. Norton, of a handsome silver tea service, by members of the society, the presentation speech being made by Mr. Wm. Scott, of Buffalo. Mr. Norton accepted the gift in a brief but appreciative address.

After the banquet there was a game of crickett on the grounds adjoining and later those present were grouped and photographed.

On the boat Messrs. Wood of Boston and Farson of Philadelphia furnished much entertainment in the way of comic songs.

The weather was delightful and there was absolutely nothing to mar the pleasures of the occasion. Certainly every one present bore away with him the pleasantest recollections of his stay in Toronto and a lasting faith in the fraternity and hospitality of our Canadian brothers.

The Trade Exhibit.

Following is a list of those making displays in the trade exhibit:

Storrs & Harrison Co., Painesville, O., hardy roses.

Pitcher & Manda, Short Hills, N. J., a very large display of orchids, palms, ferns, other decorative plants and bulbs.

Robert Craig, Philadelphia, Pa., palms, ferns, dracænas and roses.

John Burton, Chestnut Hill, Pa., palms.

J. Cotterill, Deer Park, Ont., palms, ferns, orchids and decorative plants.

Edwin Lonsdale, Chestnut Hill, Pa., palms.

Wm. Tricker, Dongan Hills, N. Y.; aquatics.

H. A. Dreer, Philadelphia, palms, ferns and other decorative plants, bulbs, blooms of French cannas and double petunias.

U. S. Rubber Works, Brooklyn, N. Y., rubber garden hose.

J. D. Imlay, Zanesville, O., pansies.

A. Gilchrist, West Toronto Junction, Ont., a seedling canna, the foliage variegated pink and green shades. Very pretty and distinct.

Otto Schucht, Sheboygan, Wis., geranium of the Happy Thought class.

Mrs. J. S. R. Thomson, Spartanburg, S. C., dried grasses.

H. A. Bunyard, Short Hills, N. J., chrysanthemum cut flower exhibitor, which consisted of a tray in which are placed receptacles for 24 blooms, each with an individual water holder and device for showing the bloom to best advantage.

N. Steffens, New York, wire work for florists.

H. Bayersdorfer & Co., Philadelphia,



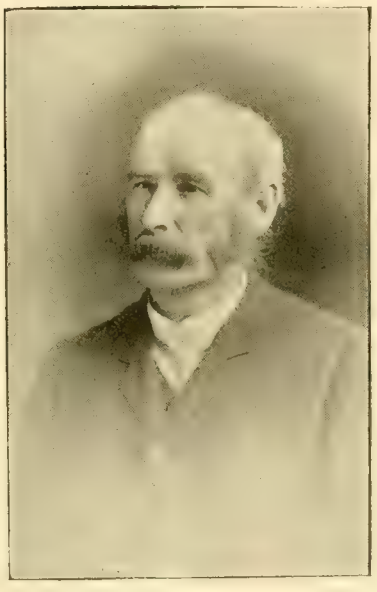
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J. M. Gasser, Cleveland, O., zinc joints for butting glass.

W. C. Krick, Brooklyn, N. Y., Immortelle letters and designs.

J. A. Simmers, Toronto, Ont., bulbs, florists' supplies and tools.

W. H. Elliott, Brighton, Mass., a fine display of cut strings of Asparagus plumosa.

J. G. Heinl, Terre Haute, Ind., Cycas revoluta in various sizes.

J. C. Vaughan, Chicago, a fine display of bulbs, blooms of new cannas, tools and supplies.

C. S. Ford, Philadelphia, Immortelle letters and designs and other florists' supplies.

Lockland Lumber Co., Lockland, O., sash bars, ventilators, etc., and section of greenhouse roof.

Cefrey Florist Letter Co., Boston, Immortelle letters and inscriptions.

F. E. McAllister, New York, bulbs.

C. H. Allen, Floral Park, N. Y., a fine display of cut blooms of gladioli.

E. J. VanReyper, Belleville, N. J., glazier's points.

Astoria Nurseries, Astoria, N. Y., ferns and other plants.

F. Mitchell, Innerkip, Ont., cut blooms of tuberous begonias.

G. B. Wilcox, Bay City, Mich, bouquet pin.

E. Hippard, Youngstown, O., ventilating apparatus.

D. B. Long, Buffalo, N. Y., floral photographs.

J. A. Penman, New York, books on ferns and orchids and the Dictionary of Gardening.

W. P. Wight, Madison, N. J., tiles for bottom of greenhouse bench. These are designed to take the place of boards or slates and were very favorably commented upon by many who inspected them with interest. Mr. Wight also exhibited a shipping box for cut flowers.

Quaker City Machine Works, Richmond, Ind., the Evans Challenge ventilating apparatus.

A. H. Hews & Co., Cambridge, Mass., Standard flower pots, jardinieres, etc.

Geo. Plant, Carlton West, Ont., flower pots, vases, etc.

John Davis & Son, Davisville P. O., North Toronto, Ont., flower pots, vases, etc.

Herendeen M'f'g Co., Geneva, N. Y., the Furman boilers, the display including several sizes and styles.

E. & C. Gurney Co., Toronto, Ont., hot water boiler.

Warden, King & Son, Montreal, the "Daisy" boiler.

J. Horace McFarland, Harrisburg, Pa., samples of printing for florists.

L. B. Brague, Hinsdale, Mass., hardy cut ferns, moss, etc.

A Quartette of Torontonians.

We have pleasure in presenting at this time portraits of four of the Canadian friends who so royally entertained the members of the S. A. F. at the convention last week.

Mr. John Chambers is the president of the Toronto Gardeners' and Florists' Club and is superintendent of the parks of Toronto. He is an able man in his profession and a jolly good fellow too. Any one who hasn't met John Chambers has missed a great deal.

Mr. J. H. Dunlop is vice-president of the Toronto Club, and a rose grower of marked ability. He has a splendidly kept establishment and is right up toward the head of the procession. Mr. Dunlop is a worker, and to his energy a full meed of credit for the success of the convention is due.

Mr. A. H. Ewing is the secretary of the Toronto Club and an all round good fellow. He is gardener at the Normal School and is recognized as a thorough plantsman and fully alive to the responsibilities of his position and ready at all times to do all in his power for the advancement of his profession. He did much hard work in connection with the preparations for the convention.

Mr. George Vair is head-gardener for Sir David Macpherson at Chestnut Park, which position he has occupied for 35 years. But he is only a boy in heart yet, and though wrapped up in his life's work, in which he takes the deepest interest, he can heartily enjoy the society of "the boys" and his presence in any gathering is always a source of pleasure to those with whom he comes in contact.

The Bowling Contest.

Thursday afternoon the bowling teams took possession of the Victoria Club Rink alleys. The Victoria Club was not to be outdone in the matter of hospitality, and in addition to freely giving the use of its bowling alleys it made each of the visiting florists a member of the club for the day. Six clubs entered, representing Philadelphia, New York, Boston, Buffalo, Chicago, and Toronto. There was a large crowd present to witness the contest and there was no lack of enthusiastic applause for well directed and successful work on the part of the players.

The first prize cup, of which we gave an illustration in the convention supplement, is a handsome trophy. The beaver at the top is of oxydized silver on a gold maple

branch. The two balls that rest at the base are also of oxydized silver, the rest being of plain silver, with gold ornamentation at various points. On one side is engraved the figure of a bowler in the act of delivering a ball and on the other the inscription within a finely chased wreath: "Presented by the Toronto Gardeners' and Florists' Club, Toronto, August 20, 1891." This elegant prize was won by the Philadelphia team, but only after a prolonged struggle. On the first two games it was found there was a tie between New York and Philadelphia for first place, each having 1,848. This was difficult to believe at first, as a tie under the circumstances seemed almost incredible, but no errors in addition could be found and these two teams had to play a half string to decide the contest. And Philadelphia won.

In addition to the handsome first prize there were five other prizes furnished by contributions to a sweepstake among the clubs. These were a silver cup valued at $25 for the club making the second highest score, a silver cup valued at $18 for the club standing third on the list, and three diamond pins valued respectively at $15, $10, and $7.50 for the three highest individual scores. Of course there was the inevitable booby prize, consisting of the delapidated remains of a stuffed beaver for the club at the foot of the list.

The following are the scores:

BOSTON.

	1st Game.	2d Game.
W. H. Elliott	167	162
Thos A. Cox	137	129
W. Edgar	139	150
F. W. Foster	115	140
McCarthy	127	114
L. H. Foster	146	142
Totals	831	837
		1,688

PHILADELPHIA.

	1st Game.	2d Game.
G. Anderson	148	159
E. Lonsdale	111	176
L. Brown	168	176
R. Craig	123	140
J. Westcott	170	136
R. Kift	174	167
Totals	894	954
		1,848

BUFFALO.

	1st Game.	2d Game.
Wm. Scott	161	170
G. Asmus	130	133
J. Rebstock	137	146
J. F. Cowell	118	122
Wm. Milley	124	109
E. Mepsted	123	145
Totals	792	825
		1,617

NEW YORK.

	1st Game.	2d Game.
T. Roehrs	163	163
I. Forsterman	158	179
E. Asmus	127	156
Alex. Burns	184	135
C. H. Allen	145	168
W. A. Manda	110	160
Totals	887	961
		1,848

CHICAGO.

	1st Game.	2d Game.
G. L. Grant	135	193
P. J. Hauswirth	165	138
A. Ringier	144	135
F. F. Benthey	152	111
J. C. Vaughan	111	100
J. D. Raynolds	88	108
Totals	795	785
		1,580

TORONTO.

	1st Game.	2d Game.
McPherson	75	127
Foster	106	96
Dietrich	60	117
Muston	125	124
Vair	68	120
Arnolds	100	139
Totals	534	723
		1,257

Philadelphia and New York being a tie for the first place with 1,848, played off a half string with the following result:

PHILADELPHIA.		NEW YORK.	
Anderson	77	Roehrs	94
Lonsdale	89	Forsterman	86
Brown	71	Asmus	48
Craig	75	Burns	66
Westcott	110	Allen	64
Kift	58	Manda	74
Total	480	Total	432

The result gives Philadelphia the first prize, with New York second and Boston third. The following are the prizes for individual scores: First, Mr. G. L. Grant, Chicago, 193; second, Mr. Alex. Burns, New York, 184; third, Mr. I. Forsterman, New York, 179.

NOTES.

George Anderson, the captain of the Philadelphia bowling team, was so proud of the cup he had won that he couldn't wait to take in the excursion on Friday, but left Friday morning to take his trophy home.

Lonsdale needed no advice. In fact, no advice was good advice for him. With advice thrown at him he made 111, but without advice he accumulated 176.

All hands agreed that the alleys were crooked, and when the New Yorkers were so far ahead the Philadelphians suggested that the reason they got along so well on the alleys was because they were crooked themselves, but when the situation was reversed the Philadelphians dropped this theory as untenable.

The Toronto team made a noble showing for players making their first effort. Look out for them at Washington.

Deacon Harris, of the Philadelphias, is offering odds that his average in the next practice games will admit him to the team next year.

The booby prize, a stuffed beaver with ribbons in its whiskers, fell into the hands of the Torontonians. Capt. Geo. Vair did some grand work toward securing this much coveted prize.

At one time it looked as if New York had the first individual prize, but the fates decreed that it should go to Chicago.

John Thorpe acted as mascotte in general and rallied the boys all along the line. John says he is a cosmopolitan now.

Vice President Smith says that alleys will be built especially for the contest at Washington next year, and that they will be beyond criticism.

Tall Vase.

The vase seen in the illustration is one of several that we have for high table decorations. The flowers in this case are by no means what we would advise, but they serve to show the vase and size of cluster that we would recommend. The vase is thirty inches high and when put on a dinner table the obstruction by the narrow shaft is very slight, the flowers coming above the line of vision. If the chandelier is over the center of the table and this style of decoration is desirable, we use two vases, one at each end. When these vases are used it is also necessary to have flowers arranged in some low form on the table. Fine long stemmed chrysanthemums are among the best flowers to use. Lilium auratum, acacia, long ferns and long sprays of some of the orchids are very effective.

H. H. BATTLES.

Subtropical Planting.

BY DAVID ALLAN, MT. AUBURN, MASS.

[*Read before the Toronto Convention of the Society of American Florists.*]

Our high summer temperature is greatly in favor for the growing and planting extensively of this most gorgeous, interesting and highly decorative class of plants. There has been a great deal of prejudice against them by the gossip—that they are expensive; but this is not so. They are like all other plants; some are expensive and some are not. For instance: An effective bed or border of such plants as castor beans, cannas in variety, amaranthus, Eulalia japonica and other grasses can be had for a moderate sum.

Then again, such plants as palms, cycads, tree ferns, musa, dracænas, etc., cannot be grown or furnished without expense. A mixture of the former and the latter has a grand effect, for the noble palm will always keep its place.

Some good ones for that purpose are Chamærops excelsa and Fortunei, Cycas revoluta, Seaforthia elegans, Latania borbonica, Phœnix rupicola and its many varieties, Areca lutescens and sapida, Caryota urens and Sobolifera, and hosts of other cool growing, noble palms.

Dracænas well worthy of a place are D. australis, D. Draco, D. indivisa variegata, D. Guilfoyleii. The bright-colored varieties such as D. terminalis and the garden hybrids, do not succeed well unless planted in shady places.

Tree ferns, Cyathea Cunninghami, C. dealbata and C. excelsa, Dicksonia antartica, D. aborescens and D. davallioides. Many of our hardy ferns can be used with fine effect in the subtropical garden, such as Adiantum pedatum, Osmunda regalis and cristata, O. cinnamomea, O. Claytoniana and O. gracilis; Struthiopteris germanica and S. Pennsylvanica. Several Japanese varieties do well, as Woodwardia radicans and W. japonica, Asplenium Felix fœmina and others.

Of ornamental grasses there are many fine varieties, but some are not hardy, except in certain soil. For instance: Eulalia japonica will not winter with me in a heavy, clayey soil, but across the river, in a gravelly soil, it stands first rate. Therefore, we with the heavy soil have to store them away in cold cellars. That is the way Robert Fortune tells us the Japanese shelter their subtropical plants; having no greenhouses, they resort to cellars and sheds.

Some good varieties of the above are Gynerium argenteum, Arundo conspicua, Agrostis nebulosa, Arundo donax, Agrostis elegans, Eulalia japonica, Hordeum jubatum, Eulalia folius striatus, Lagurus ovatus, Eulalia zebrina, Panicum palmifolium, Briza maxima, Panicum virgatum, Briza minor and Pennisetum longistylum.

The rapid improvement with marvelous results in the raising of new flowering cannas by M. Crozy and M. Lemoine, of France, will have a sure tendency to boom all subtropical plants for outdoor summer decoration in the pleasure ground.

Some favorable places for subtropical planting are the open squares, called court-yards, of large hotels and other buildings similarly situated. There the



TALL VASE.

banana would make a perfect leaf without being torn with the wind. In such places palms, dracænas, cannas, caladiums, musas, etc. would be appropriate. It would be a consideration of profit and gratification to proprietors, as well as to the nurserymen supplying such, and rendered doubly so if the same space were filled in the fall with retinosporas in variety, or other coniferæ. All subtropical plants like a rich, deep extra well manured soil.

Of cannas there is now an endless variety, but we cannot dispense with all the old ones for the sake of their effective foliage, such as Nigricans, Liliiflora, and Indica. Of all the new dwarf varieties nothing can excel their brilliant color on the lawn. We have now flower spikes in summer with trusses like rhododendrons in spring. My friend, Mr. E. Lonsdale, regrets the want of good self yellows, and perhaps rightly so. I see good self yellows coming up among the dwarf seedlings. Still, beds of such varieties as Admiral Courbet and Mme. Just have a golden display in the flower garden I have not seen equaled in midsummer since I left the herbaceous calceolaria in old England fifteen years ago. Oncidium, spotted varieties—such as Francois Corbin—are more effective in borders than massed in beds, but such varieties as Jules Chretien, Mme. Crozy, Princesse de Lusignan, Paul Bert, Admiral Courbet, Mme. Just, Thos. S. Ware, La Guill, Sir de Jeanne Charreton, Jacquemot Bonnefond, M. Cleveland, Star of '91, Gen. de Negrier, Antoine Chantin, are all grand massed in beds, each variety separate, being sure that the beds are well manured and have an abundance of water after planting.

Other good plants suitable for subtropical work are: Acacia lophantha, Rhus glabra, Acanthus glandulosa, Yucca aloifolia, Aralia japonica, Yucca gloriosa, Aralia spinosa, Tritomas in var., Bambusa falcata, Nicotianas in var., Bambusa japonica, Caladium esculentum, Ficus elastica, Malva crispa, Musa ensete, Humea elegans, Solanum robustum, Amaranthus salicifolius, Celosia pyramidalis.

Phormium tenax is a rather stiff plant, but it will do to put in windy corners to shelter the others. A few of the best single dahlias look well intermixed. Tuberous rooted begonias in favored shaded places, also some of the strong growing spotted caladiums. Should the object be to hide some building, if brick or stone, plant Ampelopsis Veitchii, as hardy plants; also Bignonia radicans and B. radicans grandiflora to hide wooden fence back of subtropical borders.

Review of New Plants.

BY WM. FALCONER.

[*Presented at the Toronto Convention of the Society of American Florists.*]

(CONCLUDED FROM LAST WEEK.)

AQUATICS.—BY MR. E. D. STURTEVANT, BORDENTOWN, N. J.

He writes: I introduced the following new aquatics here last year (1890):

Nymphæa Marliacea chromatella.—This variety deserves unstinted praise. The petals are of a delicate yellow color and the stamens deep yellow; and the flowers are of fine form and fragrant and produced continuously from early summer till fall, long after N. odorata has ceased to bloom. It is of the easiest culture and perfectly hardy.

Nymphæa Marliacea var. rosea.—Flowers pink, somewhat lighter in color than those of N. odorata var. rosea. Have grown it for two or three years.

Nymphæa Marliacea var. carnea.—Flowers, delicate flesh color. Both this variety and the last named one bear fine flowers and for a long period, and both are hardy.

Eichornia (*Pontederia*) *azurea* I introduced in 1890. In habit it is quite distinct from E. crassipes as it has a creeping stem which rambles in shallow water as a verbena does on land.

Limnanthemum Indicum—Though not new in Europe, it is so here. Its white flowers are about the size of a silver quarter to half dollar and delicately feathered on the entire upper surface, making them resemble snowflakes. The plant flowers freely all summer and is easily wintered under glass.

Victoria Randi is the name now given to the new variety of Victoria regia.

ANNUALS.—BY W. ATLEE BURPEE & CO.

Asters.—Among the best are Comet, Queen of the Market, and The Diamond.

Balsams.—The Defiance strain has the largest and most double flowers; individual flowers measure 2 to 2½ inches through.

Calendula Oriole, or large flowering bright yellow, is a very large, golden yellow flowered variety, and Royal Marigold Trianon has sulphur yellow blossoms as big as those of Oriole.

Carnation, Marguerite strain.—About 80 per cent come true from seed.

Dianthus, Dwarf Fireball.—Blood red. Fine for late summer and fall cutting.

Euphorbia heterophylla makes a good pot plant for the greenhouse in fall.

Lobelia compacta oculata.—Distinct, robust compact, free blooming; good for bedding or as a pot plant.

Candytuft, Empress—An extra fine strain of Rocket.

Nasturtiums—Aurora, yellow, lower petals spotted with crimson; Brown Red, a rich shade, and Brilliant Yellow, well described in name, are the best of the recent additions.

Petunia.—The Defiance strain is a fine selection of the best of the grandiflora type.

Phlox Drummondii.—The Fordbrook strain of grandiflora has very large flowers of a wide range of color. The Star of Quedlinburg varieties have been improved immensely of late in size and form and it embraces about forty shades of color.

Salvia farinacea is a Texas perennial but grows well when treated as an annual. Flowers blue, or silvered blue, in long, close spikes. Easy to grow, free blooming and lasts long in flower.

Pansies.—Defiance strain has very large, circular flowers of fine substance; individual blooms measure 2½ to 4 inches across.

Poppies—Among Ranunculus-flowered varieties Golden Gate and Shirley are unsurpassed; and Fairy Blush is the most beautiful of the large flowered poppies.

Sweet Peas.—Blanche Ferry (or Nellie Janes) is the most profuse and earliest variety. Among the new varieties we would recommend Primrose, a near approach to yellow; Splendor, bright pink; Purple Prince, maroon and purple; Queen of England, white; Boreatton, maroon; Mauve Queen, white, delicately shaded with mauve, and Orange Prince, orange, pink and rose.

Among other plants we would especially recommend the orchid water lily (Pontederia crassipes major). It flowers better when grown in a tub of water on the lawn than in deep water.

MISCELLANEOUS PLANTS.—BY PETER HENDERSON & CO.

Mimulus Moschatus fl pl.—A novelty of much interest. Flowers quite double; whole plant as fragrant as the single-flowered one. A good grower, easily raised from cuttings and a fine pot or basket plant.

Impatiens Sultani fol variegata—Foliage edged and marked with silvery white; otherwise in manner of growth, brightness and profusion of bloom, like the typical form.

Double Show Pelargoniums—They appear to be equal to what the raisers claim for them, but they are too new yet to us, however, to say much about them.

Geraniums—Among very promising new ones are Souvenir de Mirande, Alphonse Daudet, Panache de Nancy, Glory of Lyons, Beaute de Poitevine, W. P. Simmons, Trophee, Mrs. E. G. Hill, Amphlett, Mme. Legros Lacaille, California (this being an improvement on Golden Dawn in point of habit) Le Cid, M. Caro, Beauty of Ramsgate and Copernic.

Carnations.—American Flag, Lizzie McGowan and Louise Porsch (the best yellow, perhaps, on the market to-day) are capital varieties.

Roses—Mrs. Degraw, Climbing Niphetos, Climbing Perle des Jardins, Ruby Gold, Gloire de Margottin, Jeannie Dickson, and Clotilde Soupert have proven worthy of favorable mention.

MISCELLANEOUS PLANTS.—BY JOHN SAUL, WASHINGTON, D. C.

Aralia Cashmeriana—A hardy, herbaceous plant of vigorous proportions and fine foliage.

Cienkowskia Kirkii.—A handsome plant from Zanzibar; though not quite new, is seldom grown. It requires a warm house during summer, and to be dried off and kept warm during winter. Flowers purplish rose, with a bright golden spot.

Dichorizandra (*Cyanotis*) *Zanonia* is a very beautiful plant of shrubby habit in foliage and appearance the counterpart of Tradescantia zebrina, save habit. As it is of fine growth and easy to grow it will be largely grown.

Gladiolus Nanceianus—Of this new strain of Lemoine's I have several now in flower. Comte Horace de Choiseul, Charles Baltet, President Carnot and Maurice de Vilmorin are fine.

Gloriosa superba and G. Plantii (virescens) are old but fine plants. The first-named needs a warm house; the last-named can be planted out during summer, when it grows freely to a moderate trellis, and its roots should be lifted and kept dry and warm over winter. Both are vines.

Overa pulchella.—A beautiful vine from New Caledonia. Has many flowered cymes of white blossoms in winter.

Phrynium variegatum, from Singapore. An elegant plant allied to the marantas, and requiring same treatment. Leaves pale green, blotched and variegated with white. A free growing and very valuable plant.

Reinwardtia tetrigynum.—A little shrubby Indian plant with sulphur yellow flowers. It is a capital greenhouse plant, and of the easiest cultivation. It is not new, but a plant deserving wider recognition.

Senecio pulcher.—Bedded out in summer, it flowers freely after July, and is very beautiful. Lift before frost comes and keep it cool but free from frost during winter. Propagates freely from pieces of the root.

Aranja (*Schubertia*) *grandiflora.*—A climbing plant bearing clusters of large, very sweet-scented white flowers. Although not quite new, it is too little known.

Tecoma Amboinensis—A handsome stove climber bearing racemes of large, orange-red flowers.

Tecoma Ricasoliana (Mackenii).—As this plant comes from South Africa we may expect it to prove hardy in the Southern States and Southern California. It bears magnificent racemes three to four feet in length of large, showy, trumpet shaped flowers of a rosy-lilac color. It has done well with me.

Wistaria Multijuga.—This is the Japanese species, with racemes three feet long, and which we see so often in pictures of Japanese gardens. I have had it for over twenty years. I have a large plant in bush form; when it flowers it is one of the most beautiful objects I have ever beheld; delicately and gracefully pendant from it hang innumerable two to three feet long racemes of flowers.

Cultivation of the Tuberous Begonia.

BY JOHN CHAMBERS.

[*Extract from paper read before the Toronto convention of the Society of American Florists.*]

The cultivation of the tuberous begonia, also the propagation of the same, may be of some little interest to you, so I will give a short outline of the general methods practiced by myself and of those who have made the tuberous begonia a specialty. It is a case of "first catch your hare and then cook him," that is, you must either start with seed or bulbs, or both, which you may either beg, borrow or steal. The seed should be new. If you have any shallow pans clean them thoroughly, use plenty of "crocks" at the bottom, mix a nice light compost of peat, a



CYPRIPEDIUM BROWNII.

little well decayed leaf mould and sharp sand; after covering crocks with a little dry moss to keep the soil from running among them, fill pan to within one-half inch of the top, press lightly, sow your seed very thin (this is an important point) and cover with a thin layer of silver sand, water well and cover with a piece of glass, and shade from the direct rays of the sun. As soon as large enough to handle prick out immediately into shallow pans with as little delay as possible, as this is one of the secrets of success. Keep shifting into larger pots until the time arrives for rest, gradually dry off and place in a dry shed or cellar. The seed should have been sown as early in the spring as possible.

Now that you have nice young tubers (unless you want to sow another packet of seeds) knock them out of the pots carefully, throwing away those that have been attacked with dry rot. Procure a few shallow propagating boxes and some leaf mould, place them in this about one inch apart till they commence to start and make a few roots, by which time you will have had some clean 5-inch pots ready for their reception. A nice light potting soil will do for this shift, but when it comes to 7, 10 and 12-inch pots, which you can easily shift them into in one season, the following is a good recipe: Say to 50 parts of good fibrous turf add 25 of good peat and 10 of leaf mould, 10 of sharp sand and 5 of good rotted manure or bone dust. Mix thoroughly and pot lightly. Begonias of this section are gross feeders, so when they have had their last shift and the pots are full of roots a good top dressing and a liberal supply of liquid cow manure applied three times a week will help them wondrously. Some varieties will require pinching, but one must be guided by common sense in this respect. A light, airy, span-roofed house is the best place to grow them, with plenty of shading on sunny days. Syringing in the early part of the day is also very beneficial. Tobacco stems placed around the pots will help to keep down green fly.

For bedding a partially shaded situation suits them best and they should be planted in from 4 to 5-inch pots. Keep well watered and they will well repay any trouble in that direction.

Cypripedium Brownii.

This new hybrid was obtained by crossing C. leucorrhodum with the pollen of C. magniflorum.

The growth and leaves are similar to C. leucorrhodum; flower nearly one-third larger than those of leucorrhodum in all its parts. The dorsal sepal incurving, white shaded with rose and green blotch at the base, the lower sepal very large, nearly pure white; petals broad and flat, with bright, rosy ends; lips large, roundish, rosy purple, with a greenish cast.

This distinct hybrid, which is the first selenipedium hybrid raised in America, was raised in a little over two years. The seed was sown March 1, 1889, and germinated July 26 of the same year, and flowered May 12, 1891, thus beating all the selenipedium hybrid records.

This beautiful hybrid is dedicated to D. S. Brown, Esq., of St. Louis, an ardent lover and happy possessor of a large collection of this genus.

JOSEPH MANDA, JR.

Propagation of Carnations.

[IN RESPONSE TO QUERY BY W. E H.]

The rooting of carnations from cuttings is a very simple process if anything like proper conditions be maintained. If strong healthy cuttings are taken from the plants any time in December, January or February and placed in a sand bed, where an even temperature of from 50° to 60° can be kept up and something like an even degree of moisture maintained, they may be depended upon being well rooted in from four to six weeks with very small loss.

Probably the most important feature

in carnation culture is the even degree of moisture to be maintained and this is more particularly the case in regard to the cuttings. It must be remembered that if carnation cuttings are allowed to become very dry and wilt even in a small degree the chances of their rooting are reduced to a minimum; then again, the continual watering is a decidedly objectionable feature which seems to point to the fact that a situation where the cuttings can be well watered when first put in and require but little afterward is just about right because an excess of water is just as injurious as too little, inasmuch as too much water will cause lower ends of cuttings to turn black, and then goodbye to all chances of rooting.

My main carnation cutting bench faces the west. Early in the fall I cause the glass to be painted inside with a thin mixture of white lead and crude petroleum, which seems to so modify the sun's rays sufficiently without causing darkness as to be just about right; last winter and early spring I rooted from three to three hundred and fifty thousand cuttings on this bench, with an average loss of not over five per cent.

H. E. CHITTY.

Paterson, N. J. Aug. 18, '91.

Palm Notes.

STEVENSONIA GRANDIFOLIA.—This very handsome species can hardly be included among florist's palms, that is to say as a suitable plant for decorating, the foliage being too tender to stand much exposure. It is, however, admirable as a specimen for exhibition, the leaves of a large plant being seven to eight feet long and three to four feet in width, bifid at the apex and the edges cut into short segments, while the leaf stalks are densely armed with long black spines. Stevensonia grandifolia is essentially a warm-house palm and enjoys an abundance of moisture both at the root and in the atmosphere, and grows best in a light compost in which peat predominates.

RHAPIS HUMILIS.—This graceful palm is more elegant in appearance than the well-known R. flabelliformis and like the latter is of sufficiently hardy constitution to be very useful as a decorative plant, the only objection being its comparative scarcity. The flabellate leaves of this species are not so stiff as those of R. flabelliformis and are more finely divided, the segments being pendulous. When grown in a warm house R. humilis soon makes a handsome plant, its habit of growth being somewhat more compact than that of its congener, but as there are no seeds of either of these species of rhapis offered in the market at the present time, division has to be depended on as a means of increase and consequently these useful palms continue to be rather high priced for ordinary work.

LIVISTONA ALTISSIMA.—The subject of this note is a noble palm and deserving of much wider distribution, for while it is by no means new, yet it seems comparatively rare. It is of somewhat similar habit to the ever-popular Livistona chinensis (Latania borbonica) and has bright green fan-shaped leaves on long foot stalks, the latter being armed on the edges with recurved black spines and the base of the stems surrounded with brown fibres. Livistona altissima also thrives best in a warm house and moist atmosphere, and under favorable conditions makes a remarkably handsome specimen. Another fine species of this genus is L. rotundifolia, the leaves of which are divided into very narrow segments and of dark green color. The latter species attains considerable size ultimately, but is most ornamental for ordinary purposes, when in an eight or ten-inch pot.

CEROXYLON NIVEUM is a strong-growing palm of great beauty, the leaves when fully characterized being pinnate and the pinnæ being about two feet in length, often reaching ten or twelve feet in length, dark green on the upper side and silvery white beneath. When the plant is young the leaves of Ceroxylon niveum are entire, and even in this condition the leaves are often five feet long, but present a very different appearance to the fully developed foliage. This species does not require a very high temperature in which to flourish, but like many other palms will make more rapid progress under warm treatment.

GEONOMA SCHOTTIANA is also a very graceful pinnate-leaved species and might be briefly described as a large-growing Geonoma gracilis, the habit of this plant being much like the latter. Geonoma Schottiana has a slender stem and leaves from three to four feet long, the leaflets being narrow and pendulous and the plant compact in habit. The geonomas having rather thin leaves are sometimes attacked by red spider when not thoroughly syringed, and in order to avoid this pest should be liberally treated in regard to water and a moderately warm temperature will be found most satisfactory.

W. H. TAPLIN.

The Lace-Leaf Plant.

This is a plant of exceedingly interesting structure, and, at the same time, one of the most beautiful occupants of our greenhouses. It is commonly known as the "Lace-leaf" or "Lattice-leaf Plant." The scientific name is Ouvirandra fenestralis, the former from the native name, *Ouvirandrano*, translated as "Water Yam," in reference to the edible roots, and the latter from the latin *fenestra*, signifying a window. It is within five years of being a century since the plant was first discovered in Madagascar, its native country, by Aubert du Petit—Thouars. This botanist thought it sufficiently distinct for a creation of a new genus, and thus it came to be described and figured by him under the above name. The genus originally comprised only three species, viz., O. fenestralis, O. Bernieriana, inhabiting the same region as the former, and O. Hendelotii, a native of Senegambia and not known in gardens. But the ouvirandra is closely allied to aponogeton, and some years after its being established four species from the latter genus were added, making seven in all. Now, however, the best authorities, Hooker and Bentham, include all the species under aponogeton; but, notwithstanding this, the plant under notice will be known as O. fenestralis for many years to come.

The authorities at Kew considered themselves fortunate in securing specimens of O. fenestralis, in press and in alcohol, about thirty years after its discovery, and it was not until 1855 that the Rev. William Ellis was successful in conveying live plants to England. O. Bernieriana was introduced through the same gentleman three years later. Both plants are true aquatics, growing, in their native habitat, on the margins of running streams. They are occasionally met with in gardens, and differ from all other cultivated water plants in that their leaves always remain underneath the surface, the flowers alone ascending beyond.

O. fenestralis has fleshy, rhizomous roots, which the natives of Madagascar use as an article of food. The curious leaves, proceeding from the root in spreading clusters, attain to a total length of two and a half feet, about one-half of which is taken up in the slender petiole. The blade of the leaf, by far the most remarkable portion of the entire plant, varies considerably in outline, and a good specimen will measure from five to six inches across at the widest part. It is generally oblong, with slightly undulating margins and blunt tip. The apex, however, is often the broadest portion, with a prominent depression, the margins sloping gradually in curved lines to a pointed base. It is traversed on either side of the mid-rib by several slender, equidistant fibres, which run parallel with the margin from base to apex, and are connected by means of numerous and still more delicate horizontal lines or nerves. The whole fabric reminds one of a perfect skeletonized leaf, or a piece of lace of exquisite workmanship, the color being dark green.

The scape resembles the petioles; and rises in autumn from a cluster of the leaves, exceeding them in length somewhat, and developing at the top, just above the water, two spikes, each from three to four inches long, of creamy white flowers, which are of little account individually, but by no means despicable in the compact masses.

O. Bernieriana bears a strong resemblance to O. fenestralis. The leaves, however, are longer and narrower, the petioles only about one-fourth of their entire length, and the interstices of the blade smaller, there being a tendency to fill the spaces between the nerves, and thus assume an appearance more like that of ordinary plants. The scape also differs in having four instead of two spikes of flowers, the color being white with a tinge of pink.

A specimen of O. fenestralis grown by Mr. Richard Gardner, in a stove on the beautiful grounds attached to the Newport, Rhode Island, residence of Cornelius Vanderbilt, Esq., was the finest I have seen. This plant attracted a great amount of attention at a recent exhibition of the Massachusetts Horticultural Society, and its appearance of healthy luxuriance fully merited all the praise bestowed upon it. Late last autumn, in the course of an inspection of Mr. Vanderbilt's garden and greenhouses, I carefully examined this plant. It had been planted in a pan which was placed in a tub two feet deep, four feet in diameter at the top and filled to the brim with water. There was not an inch of space to spare anywhere in the tub, and some of the largest leaves, to their disadvantage, were forced to float partially on the surface. The plant bore numerous scapes in all stages of development, and certainly not less than 200 full-sized leaves, besides many others of inferior dimensions.

The culture of the Lace-Plant is not difficult, but there are certain peculiarities about it in this connection which demand attention. It requires a stove temperature and should be potted in a rich compost. Two parts of rich fibrous loam to one part of thoroughly decomposed cow manure, with the addition of a liberal quantity of coarse, sharp sand, and, in the case of extra large specimens, a few pieces of charcoal and a little bone meal make an excellent mixture. The plant should then be completely immersed in a tub containing clean water, the longest leaves being at least two inches beneath the surface. A quantity of fresh water should be introduced daily, and care



LEAF AND INFLORESCENCE OF THE LACE-LEAF PLANT.—(OUVIRANDRA FENESTRALIS).

must be taken to keep the plant free of the deleterious green substance which accumulates so rapidly in standing water. To be successful in potting it is necessary to perform the operation while the plant is in active growth and not when it is resting or partially dormant. Mr. Gardner informs me that he believes O. fenestralis may be dried off in the manner so successfully pursued with Aponogeton distachyon, and this is supported to some extent by the evidence of the introducer. "I was informed," says Mr. Ellis, "that it also grew in places which were dry at certain seasons of the year; that the leaves then died down, but the root buried in the mud retained its vitality and when the water returned fresh leaves burst forth. The natives spoke of it as tenacious of life and said that whenever the earth around, even the smallest portion of it, remained moist, that portion would put forth leaves when again covered with water."

I have never been able to keep this plant alive for any considerable period when the vessel which held the water has not been constructed of wood. Glass and earthenware contrivances have been successfully employed by other growers, among whom I find the late Mr. B. S. Williams, who was a famous English nurseryman, but they have invariably been absolute failures with me. A knowledge of how to properly manage the plant in a tank constructed of glass would appear very desirable, such a structure permitting of the leaves being seen in all their beauty. My experience in this direction, however, has not been altogether exceptional, for in *The Garden*, during last March, Mr. Owen Thomas—gardener at Chatsworth, the celebrated horticultural establishment of the Duke of Devonshire—alludes to the matter as follows: "A wooden vessel to hold the water is preferable to any other. I remember some years ago sending a plant to Mr. Latham, of the Botanic Gardens, Birmingham. This he placed in a glazed earthen vessel and tended with the greatest care, only, however, to see it languish and die in a short time. I advised him to use a wooden vessel for his next plant, which he did, and he has since succeeded in its culture very well."

Some speak highly of the advantages to be derived from using rain water. This, however, is not strictly necessary. I have employed that which appeared handiest, rain, spring, pond or city—provided it was clean and warmed in winter by being stood in a tin watering-pot close to hot pipes for an hour or so previous to application—and have proved all kinds to be of equal utility.

Large, established plants ripen seeds freely, and propagation may be effected by sowing these, or by division of the roots. The former is the most satisfactory method. The seeds, if allowed to fall, will ultimately deposit themselves about the base of the plant, where they will germinate. The young plants very often perish soon afterwards, however, on account of their too great distance from the surface. Mr. Gardner's plan of raising seedlings is a very good one, and I give it here in his own words: "My method is to collect the seeds as soon as ripe, that is, when they fall upon the water, where they float for a day or two, and sow them immediately in a shallow pan containing water and a little sand. The process of germination takes several days, after which rootlets and leaves speedily make their appearance. I plant the seedlings in small pots containing rich sandy soil, when they have made two leaves, and place them in a tub of water, about one inch below the surface. Good plants may be obtained in this way very quickly."

I have to thank Mr. Gardner for the leaf and inflorescence of O. fenestralis from which the accompanying drawing was prepared, and for his general willingness to impart information likely to interest the horticulturists and florists of the world.

M. BARKER.

Cambridge, Mass.

Has Four Cutlers.

The *Register*, of Norristown, Pa., is responsible for the following: "Mrs. Heebner, No. 18 White Row, has raised a curious flower, which is known as a White Dallas, and is the shape of a perfect human face and closed up like a ball. The flower has four cutlers and has been much admired." This is certainly a most remarkable novelty.

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Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

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Coming Exhibitions.

August 25–Sept. 4, Detroit, Mich.—Annual exhibition of plants and flowers in connection with Detroit International Fair and Exposition. B. Schroeter, Supt. Hort. Dept., corner Elmwood avenue and Champlain street.

September 1–2, Springfield, Mass.—Annual exhibition Springfield Amateur Hort. Society. G. H. Lapham, Sec'y.

September 1–4, Boston.—Annual exhibition of plants and flowers Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

September 2-3, Galt, Ont.—Fall exhibition Galt Horticultural Society. Thomas Vair, Sec'y.

September 8–10, Hartford, Conn.—Fall exhibition Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

September 15–17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

September 22, Hamilton, Ont.—Fall exhibition of the Electoral District Hort. Society and Gardeners' and Florists' Club.

September 25–26, Gloucester, Mass.—Exhibition Cape Ann Hort. Society.

October 27–31, Los Angeles, Cal.—Annual exhibition Southern California Hort. Society. H. W. Kruckeberg, Sec'y, Los Angeles, Cal.

November 2–7, Louisville, Ky.—Chrysanthemum show Louisville Florists.

November 2–8, New York—Chrysanthemum show Madison Square Garden. J. W. Morrisey, Sec'y, Madison Square Garden.

November 2–5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

November 3–6, Boston.—Chrysanthemum show Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 3–6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club. W. H. Ellis, Sec'y, 133 Mason St., Milwaukee.

November 3–7, Detroit, Mich.—Chrysanthemum show Detroit Florists. Robert Flowerday, Sec'y, 460 John R. street.

November 4–6, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

November 4–6, Wooster, O.—Exhibition Wooster Floral Club. W. A. Porter, Sec'y.

November 5–7, Erie, Pa.—Chrysanthemum show Erie Chrysanthemum Club. H. Tong, Sec'y.

November 5–11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y, 811 North Water street.

November 10–12, Pittsburg—Chrysanthemum show Pittsburg and Allegheny Florists' and Gardeners' Club. G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society. John Butler, Sec'y, Berkeley Ave.

November 10–12, Toronto, Ont.—Chrysanthemum show Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School, Toronto.

November 10–12, New Bedford, Mass.—Chrysanthemum show New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.

November 10-12, Washington, D. C.—Chrysanthemum show Washington Florists' Club. Engene Cadmus, Sec'y, 1419 R St. N. W.

November 10-12, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society. Wm. Gammage, Sec'y, P. O. box 155.

November 10–12, Oshkosh, Wis.—Chrysanthemum show Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.

November 10–13, Philadelphia.—Chrysanthemum show Penna. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

November 10–13, Chicago.—Fall exhibition Horticultural Society of Chicago. James D. Raynolds, Sec'y, Riverside, Ill.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.

November 10–13, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.

November 10–14, Indianapolis.—Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.

November 11–12, Worcester, Mass.—Chrysanthemum show Worcester County Hort. Society. Edward W. Lincoln, Sec'y, 5 Oak St.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society. Thos. Vair, Sec'y.

November 11–12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.

November 11-13, St. Louis.—Chrysanthemum show St. Louis Florists' Club. Emil Schray, Sec'y, 400 Pennsylvania avenue.

November 11–13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St.

November 11–13, Utica, N. Y.—Fall exhibition Utica Florists' Club. J. C. Spencer, Sec'y.

November 12-14, Buffalo.—Chrysanthemum show Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.

November 17–19, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society. Chas. Wise, Sec'y, Third and Prytania Sts.

November ———, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society. Thos. E. Meehan, Sec'y.

November ———, New Haven, Conn.—Chrysanthemum show New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 478 Orange street.

November ———, Syracuse, N. Y.—Chrysanthemum show Central New York Hort. Society. H. Youell, Sec'y, 228 Beecher street.

November ———, San Francisco.—Annual fall show California State Floral Society. Emory E. Smith, Sec'y, 321 Market St.

November —— ——, Little Rock, Ark.—Chrysanthemum show Little Rock Florists' Club. D. M. Tipton, Sec'y.

News Notes.

CEDAR FALLS, IOWA.—Joseph Bancroft is building a rose house 20x93 feet.

ST. PAUL, MINN.—Messrs. Venzke Bros. have added a new rose house 20x100 this summer.

SAN DIEGO, CAL.—Mr. E. Benard, Jr., the florist and nurseryman, and Miss M. Herkert, were married August 11.

CLAY CENTER, KAS.—Charles Humfeld has purchased land at this place and is erecting three greenhouses 10x100 feet. Hot water will be used for heating.

HAMILTON, ONT.—The Electoral District Horticultural Society, assisted by the Gardeners' and Florists' Club, will hold a fall exhibition September 22.

DULUTH, MINN.—L. S. Swanson, who has conducted a florist's store here for a year past, is reported to have left town, leaving quite a number of unpaid bills behind him.

JERSEY CITY, N. J.—Messrs. Peter Henderson & Co. have added four large houses for growing cut roses and wood for propagating; some of the old houses are also being rebuilt.

LOWELL, MASS.—The employes of E. Sheppard & Sons, to the number of fourteen, enjoyed a very pleasant outing August 13 at Tyng's Island. The day was passed in sports and games.

MINNEAPOLIS.—The Society of Minnesota Florists will hold their annual meeting at White Bear Lake, Thursday, September 10. Business meeting and election of officers will be attended to in the forenoon, and the afternoon devoted to social pleasure and picnic.

GLOUCESTER, MASS.—The Cape Ann Horticultural Society will give an exhibition at the City Hall September 25 and 26. The committee in charge feels confident of a large exhibit, as a renewed interest in horticultural affairs is being manifested in this section.

BALTIMORE.—Owing to the removal of Knapp's building meetings of the Florists' club now take place at Raine's hall, corner Baltimore street and Postoffice avenue, on the second and fourth Monday of each month as before, and not on Tuesday, as stated in a recent issue of the FLORIST. Annual election of officers takes place the fourth Monday in March.

BELLEVILLE, N. J.—Mr. E. J. Van Reyper, the florist, had an unpleasant tussle with highwaymen the night of August 15 while on his way home. He was felled to the ground by a powerful blow from behind. Though stunned he managed to defend himself, and finally scared his assailants away by threatening to shoot. Fortunately his injuries are not serious, though he was in a dazed condition when he reached home.

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" Mermets, Brides	1.00 @ 3.00
" La France, Albany	2.00 @ 4.00
" Beauties	2.00 @ 15.00
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Smilax	6.00 @ 12.00

CHICAGO, Aug. 25.

Roses, Am. Beauties	8.00 @ 10.00
" La France, Albany	3.00 @ 3.50
" Perles, Niphetos	2.50 @ 3.00
" Brides	4.00
" Mermets	2.00 @ 3.00
Carnations, long	1.00
Carnations, short	.50 @ .75
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Boston to Toronto.

Two delegations went from Boston to the Toronto meeting, numbering altogether eighty persons. President Norton felt very highly pleased by the compliment which was implied by this big attendance, it being by far the largest number on record as attending a convention from Boston.

The first party started on Saturday evening, Aug. 15, at 7:15 P. M. The Harris Palatial Car had been secured, but the crowd was too large for it and the overflow was provided with accommodations in an extra sleeper. Arrangements had been perfected whereby the delegation could be fed on the car. The unexpected large number in the party seriously interfered with the satisfactory carrying out of this part of the program, but the inconvenience thus caused was shared alike by everybody and the unavoidable discomforts were borne good-naturedly. After supper the piano was opened and singing was in order, "God Save the Queen" and "The Star Spangled Banner" both receiving their share of attention. Miss Hamblett of Nashua furnished the accompaniments on the piano assisted by Warren Ewell, who did lusty service with his harmonica, his cheeks puffing out like two big red apples. Judge Hoitt also furnished his share of accompaniment betimes with a knife and fork and plate, this performance on his part being not only ornamental but useful, as it was intended to announce to the waiter that he was hungry. Mr. Sheppard forgot which berth belonged to him, whereupon he was offered a share in a number of berths already occupied, all of which he refused, although it is difficult to understand how he had the courage to resist such tempting invitations.

Upon arrival at Montreal the party was taken in charge by the brethren in that city and shown the sights of the town, including the cathedral and a drive up the mountain. The visitors were hardly prepared for the magnificent sight which met their gaze after reaching the outlook on the mountain top. No grander sight can be seen in any city on the continent. The whole city and surrounding country appear spread out like a map and the great St. Lawrence river can be seen for many miles. The beauties of that drive and the kind hospitality of the Montreal boys will never be forgotten by those who were so fortunate as to participate on that occasion. Sunday evening the trip was resumed and Toronto reached on Monday morning.

The second delegation started from Boston on Monday morning, due in Toronto Tuesday morning, but alas! while they slept their special car was, through the stupidity of some railroad employe, sidetracked and billed to Ottawa by mistake instead of Toronto, and the blunder not being known till morning, it was after the close of the opening session of the convention when they arrived. A large placard in the exhibition hall announced that the Boston delegation had been "lost, strayed or stolen" and offered a suitable reward for their recovery. The members of the party refused, however, to accept any condolence or sympathy, and claimed to have enjoyed themselves every minute of the time, and when it is remembered that in the number were such worthies as Tom Cox, Elijah Wood, Lucius Foster, D. Zirngiebel and other shining lights it is probable they tell the truth.

The return trip to Boston after the close of the convention was as enjoyable as the outward journey had been. Many of the delegates went their own way, but there were enough leaving together on Friday night to fill a car for Montreal and Boston direct, and one via Ottawa, the latter party wishing to make the trip down the Ottawa river by boat. The only man who objected to being asked inquisitive questions was Robert Blair. Every other man in the party was perfectly willing to give a detailed account of what he had done. On arrival at St. Johnsbury, Mr. Dirwanger changed cars for Portland and was given three rousing cheers, accompanied by the vociferous announcement in song that "he was a jolly good fellow." Stacey at Manchester, Sheppard at Lowell, and Stewart at Winchester all received the same hearty send-off, and at 10 P. M. on Saturday, August 22, the trip was a thing of the past.

W. R. Smith, of Washington, accompanied the Boston delegation, both going and coming. They are his boys, he says.

W. J. S.

The World's Fair.

Last Friday Director-General Davis nominated Mr. John Thorpe for Chief of the Division of Floriculture of the World's Columbian Exposition. The appointment will unquestionably be confirmed as soon as the Directory and Board of Control meet. Mr. Thorpe came direct to Chicago from Toronto and the long delayed work of the division will undoubtedly be at once begun. Mr. Thorpe is beyond question the right man in the right place and we may now look forward to a grand display in this division whatever may be the outcome of the contest over the chiefship of the Horticultural Bureau.

The appointment of Mr. J. M. Samuels as Chief of the Bureau is still unconfirmed by the local Directory, no meeting having been held since the one at which the matter was referred to a committee for consideration. Reports as to the conclusions of the members of the committee are conflicting.

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SITUATION WANTED—By a first-class florist; best of references by a rose and cut flower grower; in vicinity of Chicago preferred Address J ZWEIFEL, 343 Jefferson st., Milwaukee, Wis.

SITUATION WANTED—By a young Scotchman, 21 years of age, as assistant gardener on private place; 5 years' experience; best of references. Address JAS. WHITTON, Carleton West P. O., Canada.

SITUATION WANTED—By an experienced gardener, single, either private or commercial; fully understands his business. Can furnish first class references. Address J E, care Am. Florist, Chicago.

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SITUATION WANTED—By gardener of executive ability and experience of all requisites and routine of commercial place, inside and outside operation, general propagation, successful growing of cut flowers, roses, pot plants, accessories to the nurseries, etc. Address HORTICULTURAL, care American Florist.

SITUATION WANTED—By a young Scotchman, aged 22 years, as second gardener on private place; experience in greenhouse work and all other branches pertaining to the profession; first-class references; present employer can be consulted. Address PETER DUFF, care J. Scott, "The Crest," Millbrook, Duchess Co., N. Y.

SITUATION WANTED—By a practical gardener as manager of private or public grounds or large commercial plant; thorough knowledge of all branches. A successful collector and hybridizer of orchids; unexcelled in palms, stove plants, roses, grapes, etc.; rockery and landscape gardening; 20 years' experience; unexceptional references; sober; married with small family. Only a first-class position required. Address BOTANIST, Niagara Street, Pittsburg, Pa.

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At a ball given by Mr. and Mrs. I. Townsend August 17, the floral decorations were exceptionally fine. Palms and flowering plants lined the broad hall to the staircase, which was hung with heavy wreaths of laurel caught with bunches of scarlet gladioli tied with cream satin ribbons. The sitting room was transformed into a conservatory of palms and orchids. The ball room was decorated with cut flowers in panels, fringes and garlands with pendants. The walls were hung with tapestry relieved by bulrushes tied with cardinal ribbons. Oaks inclosed the doorways, vines ran everywhere and golden-rod and wild grasses abounded. Other apartments were decorated with equal elaborateness and originality.

At the ball given by Mr. and Mrs. George Peabody Wetmore on the 18th the floral decorations were also very artistic. The principal decorations were confined to the ball room. From the panels hung garlands and pendants of natural flowers in white and blue, caught up with satin ribbons of a pale pink hue which were tied in long streamers. Combinations of garlands and pendants with the same shade of ribbon hung from two immense mirrors. Pink roses with green, and creamy yellow roses with jessamine were used for these. Vines of passion flowers in bloom were twined about bronze statuary with graceful effect, at the base of which were beds of gloxinias. Allmandas covered the mantel and palms and foliage plants were scattered about through all the rooms. The piazzas and the tent on the lawn presented the appearance of a garden. At one end of the main piazza was a huge tank of lotus and nymphæa plants in full flower. The piazza walls were paneled with wild grasses and bulrushes and oak boughs adorned the ceilings, which were of red and white material. Vines, bamboos, hydrangeas and hollyhocks were used in the tent.

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Wholesale Florists,

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FOR SALE FOR CASH.

	Per 100
Ficus elastica, 8 to 12 leaves	$50 00
1000 Yucca seedlings	3 00
500 fine 4-inch Br dal Myrtles	20 00
500 Nephrolepis exaltata	23 00
1000 2-inch Areca sapida	10 00
100 Dracæna Draco, 3-inch	10 00
500 fine Dracæna congesta	25 00
200 3 inch Mermet roses	6 00
200 3 inch Perle roses	6 00

Aspidistra lurida, 100 a leaf; Philodendron pertusum, 50c to $1 each; 500 Begonia Rex, 4 in $3 a doz; 100 Agave Americana, green, 50c. to $1 each; 50 Agave Americana variegated $1 to $3 each; 30 camellias, 3 years old, $25.

WANTED—200 strong Smilax, 100 Buttercup, 100 Century or Alexander Carnations, in exchange.

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COLEUS Verschaffelti, Golden Bedder, Golden Verschaffelti, Hunaet, from 2½-in. pots, $20 per 1000, $2 50 per 100. From 3-in. pots, $25 per 1000; $3 per 100. Large stock plants, $35 per 1000, $4 per 100. All orders should be accompanied by money, otherwise shipped C. O. D.

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75,000 STRONG FIELD GROWN ROSES

Splendid assortment Hybrid Perpetual, Moss and Climbing, best varieties for forcing and outdoor planting. **No better plants grown.**

Full line Clematis, Shrubs, Hardy Plants, Hardy and Forcing Bulbs, Greenhouse Plants and Roses.

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Strong, healthy stock PRIMROSES, $4 per 100, 2¾-inch pots.

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PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
PANSIES	$1.00	$ 5 00
SMILAX, 2½ inch pots	1.50	12.00
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SMILAX.

Several times shaken out, cut back and repotted, making them equal to plants grown in much larger pots; these are of good size, strong, well-rooted and compact; besides a great saving in Express charges over plants grown in larger pots.

Send for samples and prices.

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STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Bon Silene, Souv. d'un Ami, Cook, Mme. Cusin, Mme. Watteville, La France.

3-inch pots, $7.00 per 100; $60.00 per 1,000.

Carnations.

Hinze's White, Silver Spray, Fred Johnson, Orient, Portia, the Century, Mrs. Cleveland and Grace Wilder.

1st size, $8 00 per 100; $70 00 per 1000; 2d size, $6 00 per 100; $50.00 per 1000.

FRED CREIGHTON, a fine pink, $10 00 per 100.

Violets.

Swanley White, $6.00 per 100; Marie Louise, 1st size, $8 00 per 100; $75 00 per 1000; 2d size, $6 00 per 100, $55 00 per 1000; 3d size, $5 00 per 100; $45 00 per 1000

Our carnations and violets are strong, full grown plants and perfectly healthy, ready for delivery September 15.

SMILAX. Good strong plants, $3.00 per 100; $25.00 per 1,000.

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ROSES. ROSES. ROSES.

We have a few thousand left of the best forcing varieties, good strong stock in 3 and 4-inch pots at $7 and $9 per 100. Also several hundred bouvardia, large plants, in 6, 7, and 8-inch pots, $12, $15, and $20 per 100. Mostly Davidsonii, fine for forcing, all the leading varieties in 2½-inch pots, $4 per 100. Dracæna Indivisa, 2½-in. pots, $8 per 100; 4-in., $12; double white primroses, 3, 4 and 5-in. pots, $10, $5, and $20 per 100. Echeveria, all sizes, very cheap. Smilax, strong, 2½-in. pots, $3 per 100. Over one hundred of the best new and old varieties of chrysanthemums, all sizes and prices. Write

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5000 ROSE PLANTS FOR SALE

Strong, healthy stock, fine for planting, from 4-inch pots, $8 per 100, such as

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We have a splendid stock of Kentias in 2½, 4 and 5-inch pots, which we offer at exceptionally low prices. Plants are of our own growing and are strong and stocky. An inspection of stock solicited. 25 plants sold at 100 rates.

	In. pots.	In. high.	Per 100
Kentia Forsteriana.....	2½	—	$ 15.00
" "	4	15	35.00
" "	4	18	50.00
" "	5	24	90.00
" " (heavier)..	5	24	100.00
" "	6	36	200.00
Kentia Balmoreana.....	2½	—	15.00
" "	4	12	35.00
" "	4	15	50.00
" "	5	18	100.00

ROSES.

	Per 100
Waban, from 2½-in. pots, healthy stock	$15.00
Augustine Guinoisseau or White La France strong plants from 2½-in. pots.....	12.00
All the standard bedding roses at	4.00

$40.00 per 1000.

Send in your list to be priced.

ROBT. SCOTT & SON,

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Tuberous Begonias a Specialty.

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Just to hand. Cattleya Trianæ Schroederæ, the rare and very fragrant winter bloomer; Cattleya Trianæ, the old favorite, and also many Odontoglossoms, Oncidiums, etc., etc., at greatly reduced prices. Write for price list.

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Kentia Belmoreana Seedlings ready for potting.

$4.50 per 100; $40.00 per 1000. Sample of 20 plants, $1.00.

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Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10.00 each. Cycas revoluta, 50c to $5.00 and $15 00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII,

DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots strong, 15 to 18 inches $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

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CRINUM AMABILE retails for $2.50 to $3.00 each; my price, 75 cts. each. 300 on hand. To trade only.

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"Lady manager to World's Fair."

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PANSIES THAT ARE UP. Up and ready to plant when I send them. It is not only the plants that are up, the strain is up as well; up to, and most of my customers say, above any strain in the market. The price is down, considering the quality. Seed as good would cost you about as much per 1000 plants.

Price, free by mail, 100 for 75c; 500, $3; by express, $5 per 1000, with discount on large orders.

TRY THEM. THEY ARE WORTH A TRIAL.
SEND FOR LIST AND SHORT PAPER ON CULTURE.

SMILAX.

Plants have been growing, but the price has not; they are nice and stocky and ready to go right ahead. There is some 15,000 left. Let me have a chance to fill your order and do not delay it too long. Price $1.50 per 100; $12.50 per 1000, cash with the order. Sample for 10 cents.

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PANSIES OF THE BEST STRAINS.

$5 per 1000 by Express; 75 cts. per 100 by Mail. CASH WITH ORDER.

NOTE.—That my Specialties for the coming season are best varieties of

CARNATIONS, COLEUS, GERANIUMS. FIRST-CLASS ROOTED CUTTINGS.

Descriptive Trade List ready in November. Send for it.

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DRACAENA TERMINALIS,

very fine, 4 and 5-inch pots.

LATANIA BORBONICA,

and many other varieties, in 4, 5 and 6-inch pots.

Prices given on application.

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25,000 25,000

FIELD GROWN CARNATIONS.

Extra fine stock, best winter blooming variety. Send for Price List.

20,000 Smilax Plants, strong, out of 2 inch pots, $12.00 per thousand $1.50 per hundred. Cash with order.

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New crop seed of those superb strains now ready, in trade packets of 1,500 and 600 seeds respectively, at one dollar each.

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JAPANESE PLANTS

Trees, Shrubs, Bulbs, Seeds, Etc.

SEND IN YOUR ORDERS NOW, for

Lilium Auratum, Rubrum, Longiflorum, Etc.

Cycas Revoluta at greatly reduced prices.

Camellias in all colors, MAGNOLIAS, TREE PAEONIES, MAPLES, Etc.

Give us a trial, we can supply you with all Plants and Seeds, and can pack safely to any part of the world.

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303 to 312 Wayne St. & Crescent Ave.,
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FIELD GROWN plants ready in September and October; leading varieties. Prices per circular.

VIOLETS—Marie Louise and Swanley White. Young clumps for winter forcing $5 00 per 100.

Smilax—Strong young plants from 3-inch pots, $2 50 per 100.

ALYSSUM—Double for winter bloom, from 3-inch pots, $4.00 per 100. Send for circular.

W. R. SHELMIRE, Avondale, Chester Co., Pa.

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F. A. RIECHERS & SOHNE, Act-Ges,

Import and Export Nurseries,
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Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.

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PANSY SEED

Positively as received from F. Roemer.

	Per oz.
GIANT FANCY (Improved Cassier).....	$ 7 00
GIANT SHOW (Improved Trimardeau)....	6 00
ROEMER'S GIANT (five spotted).....	12 00

Trade packets of above, $1 00 each

H. WATERER,
109 South 7th St., Philadelphia, Pa.

Pansies. Pansies.

200,000 plants of the Jennings strain ready in September and October. 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies to be A No. 1 in every respect. Seed can yet be had at 50 cts. to $1.00 per packet.

ADDRESS **E. B. JENNINGS** Pansy Grower,
Box 76. SOUTHPORT, CONN.

	Per 100
Adiantum Cuneatum, 3-in.,	$8.00
" " 2 1-2 in.,	6.00
Ferns in variety, 3-in.,	8.00
Fittonia Argyroneura, 2-in.,	3.00
Clerodendron Balfourii, 2-in.,	4.00
Grevillea Robusta, 4-in.,	10.00
Begonia Metallica, $4, $6, and	10.00
Smilax, strong, 3-in.,	3.00

TUBEROUS BEGONIAS FOR FALL DELIVERY.

PROBST BROS. FLORAL CO.,
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PANSIES ONLY.

The Greatest Collection ever offered, including all the Latest Novelties. Our Seed is Warranted to be Fresh, Pure and Strictly First-class. Send for new Circular and Price-list to the trade.

ALBERT BENZ, Douglaston, N. Y.

Philadelphia.

The rubber game of the series of base ball games between the Craigs and the Dreers was played at Riverton on the 15th inst., and resulted in a win for the Craigs by a score of 9 to 3.

W. P. Craig, who did the twirling for his team, did some magnificent work, allowing his opponents only four scattered hits and retiring nine batsmen on strikes. Carr and T. Mullen did some good work with the stick. The Dreers' infield all played good ball, and had many chances offered them to show their mettle which were generally accepted.

THE SCORE:

CRAIGS—	R.	H.	PO.	A.	E.
T. Mullen, c	1	2	9	2	0
Carr, 3b	2	3	0	0	0
P. Mullen, 2b	0	0	2	2	0
Kelly, 1b	0	1	3	0	0
Toomey, ss	0	1	1	0	0
McLean, cf	2	1	0	1	0
T. Heywood, lf	1	1	0	0	0
H. Heywood, rf	1	0	0	0	0
W. P. Craig, p	2	2	0	0	0
Total	9	11	15	5	0

DREERS—	R.	H.	PO.	A.	E.
Jordan, p	0	0	0	3	0
Kerins, lf	1	0	0	0	0
Faunce, 1b	1	0	5	0	0
Truax, 3b	0	1	3	1	1
Tritag, ss	0	0	1	3	0
Shuyler, cf	0	0	0	1	1
Smith, rf	0	1	0	0	0
Horrick, 2b	0	1	4	0	2
Rowe, c	1	1	2	0	0
Total	3	4	15	8	4

SCORE BY INNINGS:

	1	2	3	4	5	
Craigs	1	2	0	3	3	—9
Dreers	1	0	1	0	1	—3

PHILADELPHIAN.

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OF
28 GREENHOUSES AND STOCK,

Comprising thousands of Azaleas, Camellias, Palms, hot house and bedding plants. Also boilers, 4-inch pipe and fittings, will be sold without reserve

Sale to Commence Monday Aug. 31, 11 o'clock a. m.,

and continue until everything is sold. The above stock will be on private sale until date of public sale, at greatly reduced rates. Florists wishing a stock of fine Azaleas or Camellias would find it to their advantage to inspect before purchasing elsewhere.

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53rd and Woodland Ave. PHILADELPHIA, PA.

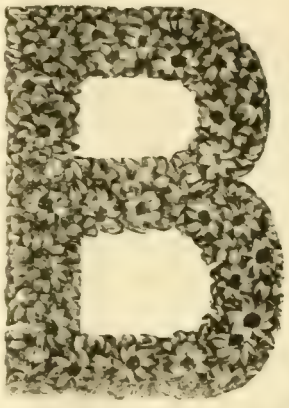
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WHOLESALE
FLORISTS' SUPPLIES ONLY,
50 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

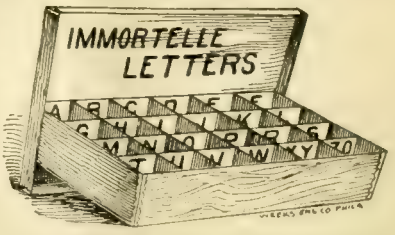
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The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address (with $3.50 for the book)

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Box 655, HARRISBURG, PA.



THE only genuine **all Immortelle Florist Letter** in the market to-day is **FORD'S.** The above shows a cut of a 2-in. block letter, made of the best immortelles, on a **pliable twisted wire.** Will not **break or warp,** as no **wooden frames or composition material is used in their manufacture. Florists** can **reshape** them into any other letter desired, thus preventing the necessity of carrying a large stock. Fasten them in your designs with wire pins, which are furnished free with each letter. Price **$3.00** per 100; postage 15c. A special discount on smaller sizes. Used and recommended by some of the leading florists in the U. S. One gross (144) of these letters, nicely assorted, including



a **Letter Box,** made of strong material, bound with dark cloth, or heavy wood board with patent metal edges, will be sent to any address for **$5.00** cash. Separate boxes $1.00 each; capacity 800 letters. Address

C. S. FORD, JR. Manufacturer of Florists' Letters, Designs, Novelties in Wheat, Etc. Also Dealer in GENERAL FLORISTS' SUPPLIES.
Estab. 1881. P. O. Address, Box 287. MENTION THIS PAPER.
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If you wish to illustrate your Printing with Cuts, send 50 cents for my Catalogue of FLORAL ELECTROS—2,250 Engravings.
A. BLANC, PHILADELPHIA.
Catalogue of Cactus plants free.

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I MAKE 'EM, WITH CUTS AND "KNOW HOW."
J. Horace McFarland,
HARRISBURG, PA.

THE AMERICAN FLORIST CO.'S
TRADE
DIRECTORY
OF { FLORISTS, NURSERYMEN, SEEDSMEN,
OF THE
UNITED STATES AND CANADA,
1890.

No one in the Trade can afford to be without it.

PRICE, $2.00.
ADDRESS
AMERICAN FLORIST CO.
54 La Salle Street, CHICAGO.

THE CHEAPEST AND BEST OF ALL.
FIR-TREE OIL
INSECTICIDE—soluble.

FOR PLANTS.—To make a solution for washing or cleansing purposes—Half-a-Pint of Fir-Tree Oil to ten gallons of water.

For Green and Black Fly, Thrip, American Blight, Wooly Aphis, etc.—Half-a-pint of the Fir-Tree Oil to two or four gallons of water, or two or three tablespoonfuls to the pint.

For Red Spider and Caterpillar—Half-a-pint of the Fir-Tree Oil to two gallons of water, or three tablespoonfuls to the pint.

For Mealy Bug, Brown or White Scale—Half-a-Pint of the Fir-Tree Oil to four or six quarts of water, four to eight tablespoonfuls to the pint.

For Mildew and Blight on Fruit or Foliage—Half-a-Pint of the Fir-Tree Oil to a gallon of water, or six tablespoonfuls to the pint.

Used with warm water it is quicker in its action than when cold is used.

Soft or rain water is necessary, and Applied in Wood, Tin or Pot Vessels.—Galvanized Iron Vessels must not be used.

FOR ANIMALS.—For Skin Diseases and Killing Vermin mix one part of Fir-Tree Oil with three parts of warm water and wet the affected part each day. In some cases it may be used stronger For Ring-worm apply full strength with a brush each day.

FOR BIRDS INFECTED WITH PARASITES.—Put a tablespoonful of Fir-Tree Oil in one quart of warm water and dip the bird in it, taking care that its eyes are protected, hold the bird in one hand for one minute, then dip into clean tepid water; this may be repeated. If necessary a much weaker solution may be used with a spray producer.

Sold in Bottles and Tins.

Manufacturer—E. GRIFFITHS HUGHES,
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SOLD BY ALL SEEDSMEN.
— WHOLESALE AGENTS —
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Mention American Florist.

THE CEFREY FLORIST LETTER CO.
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Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-inch and 2-inch, $2 00 per 100. Patent fastener with each letter.
WHEAT DESIGNS OF EVERY DESCRIPTION.
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You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

If in need of anything in the
FLORISTS' SUPPLY LINE,



Send to us, we carry a complete line at lowest market prices.
Importers, Manufacturers and Dealers,
PHILA. IMMORTELLE DESIGN CO.
725 Arch St., Philadelphia, Pa.
New Fall Catalogue and Price List will be ready for distribution about August 10, 1891.

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GREEN HOUSE
Glass.
507 & 509 W. RANDOLPH ST.
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ALL SIZES OF SINGLE AND DOUBLE THICK
GLASS FOR GREENHOUSES.
—ALL GLAZIERS' SUPPLIES.—
☞ Write for Latest prices.



Ventilator Machinery
FOR ALL CLASSES OF GREENHOUSES
EITHER FOR TOP OR SIDES.
Awarded the only Certificate of Merit at Buffalo Convention.
Patented Dec. 10, 1889.
Write for Catalogue before ordering elsewhere.
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Floral Wire Designs,
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335 East 21st Street. - NEW YORK.

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MANUFACTURERS OF
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122 W. 25TH ST. NEW YORK

IMPROVED GLAZING.
J. M. Gasser's Patent
Zinc Joints for Butting Glass without laps.
101 Euclid Avenue, CLEVELAND, OHIO.

ALL ABOUT PROPAGATION
THE NURSERY BOOK, by L. H. Bailey, assisted by noted propagators. Describes best methods of propagating over 2000 Varieties of cultivated plants. Nearly 100 Illustrations. Price, Cloth, $1.00; Paper, 60 cents.
THE RURAL PUBLISHING COMPANY,
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HOW CAN YOU GET ALONG WITHOUT OUR
TRADE DIRECTORY?
AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

EXCELSIOR STANDARD FLOWER POTS,
With Patent Ventilated and Perfect Drainage Bottom.



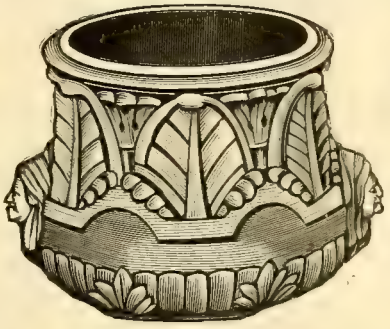
CARD. We beg leave to call your attention to our EXCELSIOR STANDARD POTS. You cannot well afford to be without them, as they are especially adapted for growing Chrysanthemums and all valuable plants.



FIRST CLASS CERTIFICATE OF MERIT AWARDED WHEREVER SHOWN.

We still carry in stock a full line of the regular "STANDARD" POTS.
When writing for price list state sizes and quantity wanted.
Price List sent on application to
THE WHILLDIN POTTERY CO., 713 & 715 WHARTON STREET, Philadelphia, Pa.

STANDARD FLOWER POTS
—AND—
JARDINIERES IN GREAT VARIETY.



NOTE.—Our new Catalogue for the Fall of 1891, containing illustrations of New Jardinieres especially adapted for Standard Pots is now ready and will be sent on application.

A. H. HEWS & CO., CAMBRIDGE, MASS.

AHEAD OF EVERYTHING.
We Follow None, Prize or No Prize.
Our latest improvements in machinery produce a Standard Pot which for lightness, smoothness and durability, has never been equaled. Customers buying of us will
SAVE ONE-THIRD IN FREIGHT.
And to prove this, we give below a table showing number in Crate and WEIGHT of same, which speaks for itself:

Size.	No. in Crate.	Weight.
1¾-inch	3,000	250 lbs.
2 "	2,400	250 "
2¼ "	1,750	250 "
2½ "	1,450	250 "
3 "	1,280	350 "
3½ "	800	350 "
4 "	600	350 "

It will be seen at a glance, that our pots are one third lighter than formerly, and yet we claim that owing to the superior quality of our clay and improved machinery, they are stronger than any pot in the market, and we frankly ask you to make the test. ☞ SEND FOR PRICES.
SIPPLE, DOPFFEL & CO., Syracuse, N. Y.



FANCY. DAGGER.
per barrel; 6 barrels, $5.00. 20 barrels, $15 00.

NEW CROP EVERGREEN CUT FERNS
NOW READY.
Special attention paid to supplying the wholesale trade.
Single thousand, $1.25; in lots of five thousand and upwards, C. O. D., $1.00 per thousand.
SPHAGNUM MOSS. Long, clean fibre, hand sorted, DRY or GREEN, $1.00
BOUQUET EVERGREENS, $2.00 per barrel.
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CONSERVATORIES,
GREENHOUSES, ETC.
Erected in any part of the U. S. or Canada Glazed on the
HELLIWELL PAT. IMPERISHABLE SYSTEM,
OR WITH PUTTY.
For further testimonials, illustrated catalogue or estimates, address
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HORTICULTURAL AND SKYLIGHT WORKS.
NEW YORK OFFICE: 145 Liberty Street.
MAIL OFFICE AND WORKS: 148-156 RANDOLPH AVE. Jersey City.
Mention American Florist.

Chicago.

The "World's Fair Floral Co." is the title on a new sign on Milwaukee avenue.

Mr. A. Mailander, the West Madison street florist, was married last week.

John E. Bohan has started in as a wholesale commission dealer in cut flowers.

The Chicago delegation had a very pleasant trip to Toronto, and those in the party couldn't say enough in praise of the way they were entertained while in the city over the line. Among those who accompanied the Chicago party from this point were: Mr. R. J. Mendenhall, wife, and three nieces, Minneapolis; G. J. Braun, Denver; Wm. Clark, Colorado Springs, Colo.; H. W. Buckbee, Rockford, Ill.; Fred. Heinl, Terre Haute, Ind.; Thomas Franks, Champaign, Ill.; Mr. Oestertag and two ladies, St. Louis.

Chicago didn't get within good hailing distance of the cup in the bowling tournament, but it got the first prize for highest individual score, and that's something.

Springfield, Mass.

The Springfield Amateur Horticultural Society will hold their fall exhibition of flowers and fruits September 1 and 2 in Union Armory, Springfield, Mass. The indications are that this will be one of the largest fall exhibits of out-door flowers ever held in this country. A large number of tables and other requisites have been ordered to stage the extra quantity of flowers. The June exhibition was a grand success, the society having added a number of hundred dollars to the treasury. The 750 members are not only hard workers for the society, but are all growers from the modest window garden to the seedsmen with 10 acres now in bloom, and when this large body of flowers is staged it will make a sight worth going miles to see. Any grower in this country is invited to exhibit, sending their flowers by express at the society's expense, also catalogue price lists, cards, etc., will be distributed by the society for exhibitors. CHARLES L. BURR.

CYPRESS GREENHOUSE MATERIAL

CLEAR CYPRESS SASH BARS

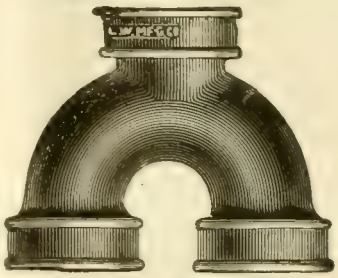
HOT BED AND VENTILATING SASH

JOHN L. DIEZ & CO.
530 North Halsted Street.
CHICAGO, ILL.

MARING, HART & CO.
MANUFACTURERS OF
Window Glass
MUNCIE, IND.
We make a Specialty of GLASS FOR HOT-HOUSES.

Greenhouse Pipe and Fittings





Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST!

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.
WRITE FOR ILLUSTRATED CIRCULAR.

BOLTON HOT WATER HEATER
FOR WARMING RESIDENCES, GREENHOUSES, SCHOOLS, HOSPITALS, ETC.

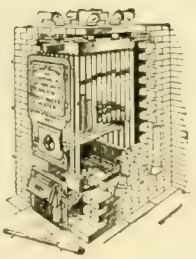
SCRANTON, PA., Mar. 16, 1891.

Gentlemen:

The Bolton in my greenhouse at Dalton works with the most complete satisfaction; consumption of fuel very light.

I am for hot water first, last and always; think it much better than steam.

Yours truly,
JAS. P. DICKSON,
Pres. Dickson Mfg. Co.



Send for Illustrated Book "WARMTH FOR WINTER HOMES."

DETROIT HEATING AND LIGHTING COMPANY,
Manufacturers also of the COMBINATION GAS MACHINE.
FACTORY AND HOME OFFICE, 550 WIGHT STREET, DETROIT.
BRANCHES: NEW YORK, BOSTON, CHICAGO, ST. LOUIS, NEW ORLEANS.
CONTRACTORS FOR COOK COUNTY: BLAKE & SMITH CO., CHICAGO.

GALVANIZED IRON GREENHOUSES ENTIRE.

No more decaying and sagging bars and frames. Solid Angle Iron Structures. ***NO PAINTING AND REPAIRING.*** We have built the largest plant in the United States. Send for sample bars and circulars.

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MINNEAPOLIS, MINN.



Pat. 1882, '85, '86, '88, '90.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes, ½ inch to 42 inches diameter.

The making, vending, or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mf'g and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.

J. C. VAUGHAN, AGT., CHICAGO.

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VENTILATORS, RIDGES, GUTTERING AND LUMBER.

NO WIDE-AWAKE FLORIST need be told it will pay him to use SASH BARS, etc. made from

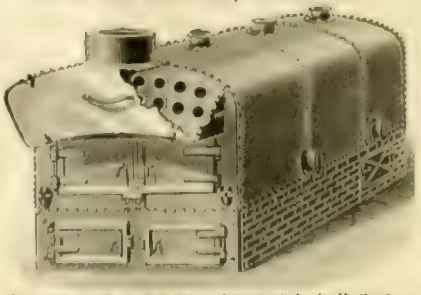
CLEAR CYPRESS.

Bars all Shapes up to 20 feet long.

Send for circulars and estimates.

LOCKLAND LUMBER CO.,
Hamilton Co., LOCKLAND, OHIO.

KROESCHELL BROS.
IMPROVED
Greenhouse & Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.

Highest International Honors.

REPORT OF COMMITTEE ON HEATING BOILERS.

Seventh Convention of American Florists,
Toronto, Ontario, August 20th, 1891,

REPORT ON HOT WATER:

The Vertical Circulation of the water and the manner of the circulation of the draft through the back tubes as it enters the chimney, points to

GREAT ECONOMY OF FUEL.

Committee on Heating Apparatus,
JOHN BURTON, Philadelphia.
HENRY DALE, Toronto.
F. G. FOSTER, Hamilton.
W. H. ELLIOTT, Boston.
EDWIN A. SEIDEWITZ, Annapolis.

Highest Award and Certificate of Merit at Buffalo, 1889.
Very Highest Award on all points at Boston, 1890.

The "Faultless FURMAN" still leads.

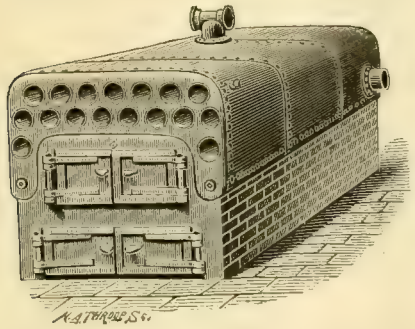
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GENEVA, N. Y.

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DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of four-inch pipe
SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,
87 S. CANAL STREET,
CHICAGO.

LONG'S FLORAL PHOTOGRAPHS,

Are finished in the most perfect style of the photographer's art. Considering this, and the difficulties met with in getting good pictures of fresh flowers, the prices named in our list are absurdly low.

Circular and prices free on application to

DAN'L B. LONG, Florist,
BUFFALO, N. Y.

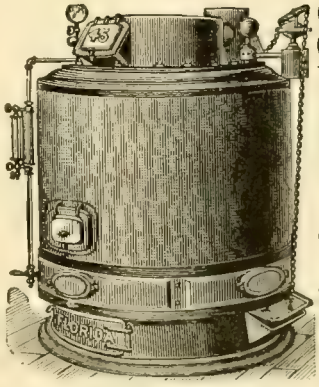
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STEAM OR HOT WATER.

THE "EXETER,"

For SAFETY, ECONOMY and DURABILITY it has no equal.

EXETER MACHINE WORKS,
SALESROOM, 32 Oliver Street, BOSTON.
Works, Exeter, N. H.



Save Your Coal and INSURE Your PLANTS and FLOWERS

FLORIDA STEAM AND HOT WATER HEATERS

FOR GREENHOUSES.

19 sizes for Steam, 14 sizes for Hot Water, 15 sizes for Soft Coal

THOUSANDS AND THOUSANDS IN USE.

Has a **Magazine Feed.** Throws out **No Gas. Saves 25 per cent in fuel.** Gives a uniform heat **day and night. Fully warranted** in every respect and guaranteed to give satisfaction. Reliable Agents in all the leading cities and towns in the United States. **Send for new catalogue.** Address

PIERCE, BUTLER & PIERCE MFG. CO.
SYRACUSE, N. Y., U. S. A.

HAIL Lock the door BEFORE the horse is stolen. Do it **NOW!**
JOHN G. ESLER, Sec'y F. H. A.,
Saddle River, N. J.
Mention American Florist.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

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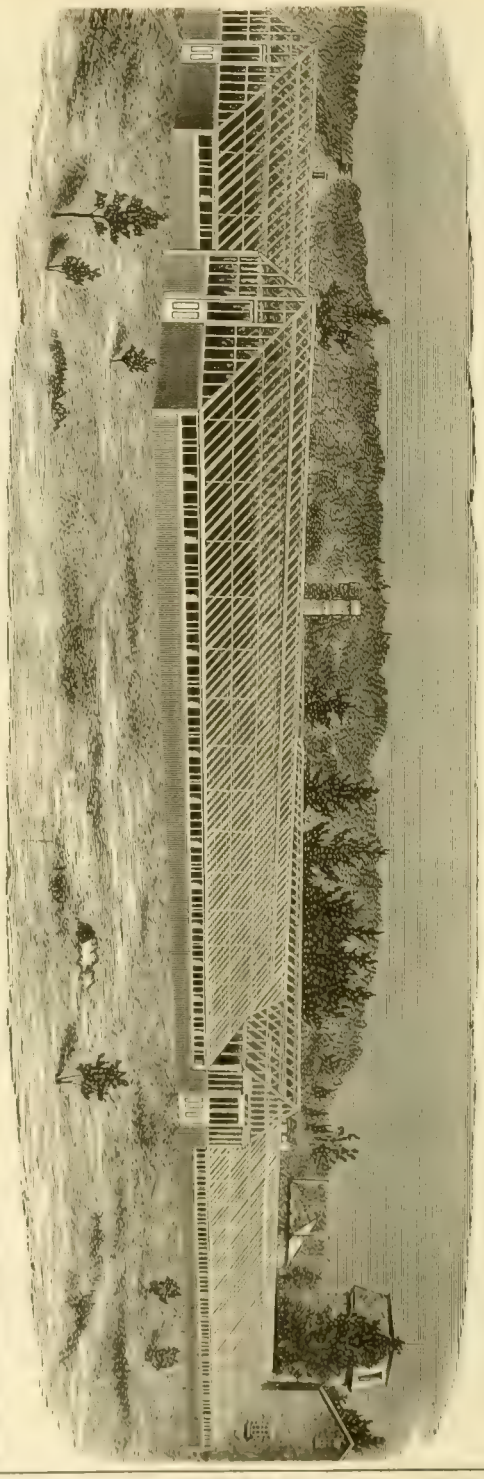
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ESTABLISHED 1844.

GREENHOUSE HEATING AND VENTILATING,

HORTICULTURAL ARCHITECTURE AND BUILDING.



COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON; AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME. —— IRON BENCH FRAMES FOR SLATE OR WOOD TOPS. ——

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

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THE EVANS CHALLENGE VENTILATING APPARATUS.



WITHOUT A RIVAL, EITHER IN COST, SPEED IN OPERATION OR SECURITY IN CASE OF STORMS.

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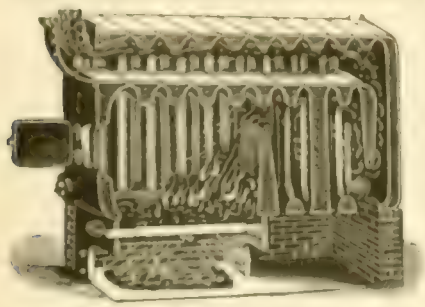
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1108 and 1110 North E Street, RICHMOND, IND.

WHEN WRITING FOR ESTIMATES, PLEASE GIVE FOLLOWING DIMENSIONS:

1st. Give the number of sashes to be lifted.
2nd. Give the length and depth of sashes, (depth is down the roof.)
3rd. Give the length of house.
4th. Give the height from the ground to the comb of roof.
5th. Give the thickness and width of rafters or sash bar.

Mention American Florist.



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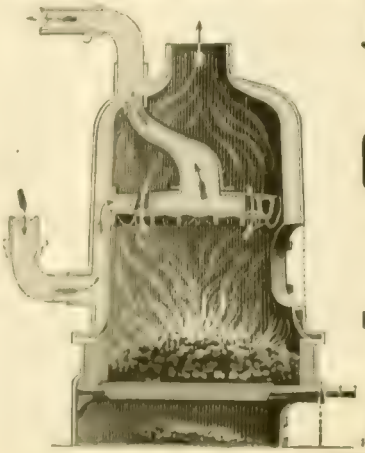
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SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

FLORISTS' HAIL ASSOCIATION.

Insures greenhouses against damage by hail. JOHN G. ESLER, Secretary, Saddle River, N. J.

FLORISTS' PROTECTIVE ASSOCIATION.

Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BEATTY, Sec'y, Oil City, Pa.

AMERICAN CHRYSANTHEMUM SOCIETY.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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THE National Gardeners' Club of Washington, D. C., has been organized with officers as follows: W. Clarke, president; C. F. Hale, vice-president; Benj. Durfee, treasurer; C. L. Reynolds, corresponding secretary; G. W. Oliver, recording secretary. This organization will attend to the local details of the S. A. F. convention of 1892. They are early in the field and will start the ball rolling now, that they may have a full year in which to elaborate their plans.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

New Ideas in Greenhouse Construction and Heating.

BY F. R. PIERSON, TARRYTOWN-ON-HUDSON, N. Y.

[*Read before the Toronto Convention of the Society of American Florists.*]

I do not know as I will advance any new or novel ideas, but in the short time allotted will try and call attention to what I consider some of the most advanced ideas in reference to greenhouse construction and heating. The first thing I consider of importance in the construction of greenhouse buildings in these days of close competition and reduced prices is durability. As to what expense one would be warranted in going to in order to secure such durability would depend largely upon capital available, but where circumstances favor and the necessary amount of capital can be commanded there is no question in my mind that the best houses, in the long run, are the cheapest. Heretofore large profits have induced the cheapest kinds of buildings, the object being to secure the most glass for the least money, many growers saying, I can well afford to tear down and rebuild the house from the additional profits which the increased glass will afford, but with falling markets and decreased revenues, the time is fast approaching when such loose business methods will only result in failure. With capital at 5%, to my mind there is no question but what the best greenhouses that can be built are advisable. In the new houses we have just erected we have used a continuous solid iron rafter, running from the ridge to the ground, set in concrete blocks, which makes probably the most durable construction possible, as the iron rafters being continuous and solid, cannot be affected by decay, and in consequence the roof will remain fixed and rigid, although the sides of the building, which is the part most subject to decay, should become so rotten as to possess little if any strength. What the ribs are to a boat the rafters are to a greenhouse; if any defect in these the house soon requires rebuilding.

Our idea in construction has been to secure practically an indestructible rafter, as we consider the life and strength of the house is dependent upon this. Many are now putting considerable iron in the roof in order to lighten it and secure as much sunlight as possible, as it offers the least obstruction to the rays of the sun, being of less bulk, yet are still using wooden posts and plates. In this combination of wood and iron a large proportion of the expense of the better house is incurred and the particular advantages of the entire iron rafter lost, as such a house is but little better than the regular conventional wooden house so far as strength is concerned, as the weak parts of a house are the sides where the most moisture accumulates and most decay occurs, for no matter how good a roof is, if the posts on which the roof rests become weak through decay, the roof settles, glass breaks and the house soon becomes practically valueless.

Of one thing I am thoroughly satisfied, greenhouse benches should be built entirely of slate and iron, these affording the most desirable materials of which they can be built. Many think that the cost of these preclude their use by the average florist, but I think when the matter is thoroughly looked into, but one conclusion can be arrived at, viz: That there is no question but the use of such benches would show a large profit in every case. There is nothing around a greenhouse which decays so rapidly, requires such large repairs and such frequent renewing as the average bench; so much so that the average life of a greenhouse bench as ordinarily built will hardly exceed five years, and as an average I consider this an outside figure, as when built of the cheapest material, as they usually are, three years sometimes is their life instead of five. Aside from first cost there is one loss occasioned by the frequent renewal of benches, which is very seldom taken into consideration, and that is the loss of a crop or the partial loss of a crop through the time consumed in tearing down the old benches, cleaning the houses and erecting the new ones. Let the florist calculate as closely as he will, more time is consumed in this operation than should be, and the result is the house is planted so much later than it should be, that crops are very often discounted 25% in value, which would pay the entire cost of the best iron benches.

Our system of constructing greenhouse benches we consider superior to anything we have ever seen; whether I can describe our method to make it intelligible in a few words or not is a question. In our iron rafter house a 1¾-inch angle iron is bolted to the perpendicular rafter that forms the side of the house at whatever height the bench is to be built. On this rests the 1½-inch **T** irons, which are used for the cross bearers of the bench, placed every 4 feet apart, the front of the T irons being drilled to receive a bolt to hold the clamp (which is an ordinary cheap casting), which is used as a socket in which the leg of the bench rests, the legs of the bench being made of common 1-inch wrought pipe. The cross bearers are drilled on the upper or T side, front and back, in order to bolt a light 1½-inch angle iron to them drilled every 4 feet to correspond; these angle irons are also drilled on the other side for 1-inch screws, and to these angle irons yellow pine strips 5 inches in width are screwed forming the edges of the bench. The inner and outer angle iron by being bolted to the cross bearers holds the bench together and acts as an outer and inner support for the slate. To support the slate between, two light 1¼-inch T irons are used, which are placed on top the cross bearers lengthwise of the house reversed

and between the angle irons at equal distances. These are not fastened in any way to the bearers, which allows them to take up or give a little in case of variation in the slate. Our benches are exact duplicates of each other in width, being 3 feet, 4 inches in width all over, taking 3 runs of slate 12 inches in width, center beds being twice the width, with a 10-inch walk between. The amount of drilling required to erect such a bench is very slight and can all be done at any machine shop at trifling expense. Everything used in the construction of such a bench are standard materials that can be procured anywhere, and consequently such a bench is within the reach of all. The only special casting required is a clamp to receive the iron pipes used for legs at the front of the bench. We have set the cross bearers in our new houses on the angle iron bolted to the upright iron rafters. Of course this could be modified in old houses or houses constructed differently. With locust posts such an angle iron could be bolted to the locust posts, or the cross bearers could be lengthened out for a brick wall and inserted directly in the wall or a back leg could be used, letting the bench set on two legs, but where it is possible to enter the cross bearers into the brick wall or where it is possible to fasten the angle iron in a durable way to the sides of the house, it cheapens the bench.

One of the most important considerations in a greenhouse is convenience. Everything should be so built that the amount of labor required is reduced to a minimum, as the time is soon to be reached in this business when it will not be a question as to who grows the most stuff, but who can run his place the cheapest that will come out ahead. Everything that conduces to labor saving is a matter of the most vital importance. In our new greenhouses we have carried out a great many ideas, which while not original, embody the most advanced ideas we could glean from our own experience and that of others. Take the question of liquid manure for instance: We have large vats out of doors that can be reached readily by carts, so that the labor in handling the manure is small. The manure is dumped into these vats from dump carts and water pumped by steam through a system of pipes into these vats. This is allowed to soak for 24 hours or more, when the liquid is drawn off into a side vat lower than the first; two valves close the pipes, one leading to the first vat and one from the well from which our water supply is obtained, and the same pipes and the same pump are used to distribute the liquid manure. We have such perfect control of it that we use weak liquid manure regularly once a week and occasionally oftener, and no more time is occupied than would be in watering the place regularly. The amount of labor saved by this arrangement will be best appreciated when we state that four men can now water the place with liquid manure in 2 hours, whereas by using cans it took four men two days to go over the place before our present arrrangements were in operation. The difference in cost between the two methods would make a substantial profit alone in 12 months.

In rose growing a large item of cost is the annual removing and refilling of the soil in which the roses are grown. We use small tram car wheels and dump cars, the sides of the benches being used as tracks. These cars are made large and run through the center of the houses, carrying as much soil as a good stout boy can push—more soil than four boys could carry. When emptying a house several cars are used and two or three men are employed filling the cars. As fast as a car is loaded a boy propels it to the end of the house, where it is dumped into a cart in waiting and brought back; during the time occupied in running down the first car a second is filled up by the same gang of men, which keeps them constantly employed. By the time the second car is filled the first has been emptied and returned, so by the use of two carts to carry the soil away and two or three cars in a house the men are occupied constantly and the greatest economy secured in labor. Our houses are 304 feet in length with doors at either end, which necessitates carrying the soil only 150 feet to the farthest point, and this is rapidly reduced as the houses are emptied. This may not be pertinent to the question I am answering, except in so far as the question of construction would admit of the use of such cars, and for this reason I consider it pertinent.

An idea seldom thought of, but very important, is the location of the walks and purlins with reference one to the other. We use drip bars, which we consider a decided advantage, as they reduce the drip in a house very much, but the question of the location of the purlins with reference to the walks, even with the use of drip bars, is still a matter of vital importance, especially where high grade roses are grown. Drip, in mid-winter on such roses as La France or American Beauty will often destroy flowers worth 50 cents to $1 each. By locating the purlins over the walks almost every bit of drip in the house that would do any damage would be obviated by such location of the purlins; this is possible, as in our new houses none of the purlins are over the benches. Some will say there should be no drip in a properly constructed house, but we find the drip that causes the damage is that produced from condensation from zero and mid-winter weather and not that which comes in from out of doors; that is something that should never occur and never does when a roof is in proper condition, as it should be.

Much has been said and written about overhead heating pipes, but from what we have seen in other places and from our own experience we have nothing to say in favor of this system. In the first place it disfigures the looks of a house, then they are in such a position it is almost impossible to syringe without striking them with water, creating steam, which is a serious disadvantage, as it bleaches high colored roses and tends to soften foliage and is decidedly detrimental to healthy plant growth. Then it is impossible to place the pipes in such position that they will not some time or other be in a position where the plants are likely to strike them, and much damage often ensues. We experimented with them in our old houses when first advocated, but they have all been taken down for reasons just given. We believe the use of overhead mains as commonly used in distributing the steam from the far end of the house does not secure the best results. We have adopted on our place what we consider an original plan for the distribution of steam, and after a year's experience can hardly see how it can be improved. As I have already stated, our houses are 304 feet in length and detached. In order to do away with the necessity of carrying steam the entire length of the houses, 2 houses each 304 feet long are heated in pairs, the boiler room for each range being situated between the two houses and midway from either end. The steam mains and returns are by this plan reduced to a minimum, each being only 58 feet in length; this main is situated in a trench below the walk through the center corridor, which is used as a connection between the separate houses, making access to each house very convenient, the boiler room doors being connected on the corridor. We consider the central location of the boiler rooms a matter of the greatest importance for several reasons: 1st, we have no large mains filled with dead steam, the flow pipe as I said before, being only 58 feet in length, and this controls 600 running feet of house. It must be borne in mind that fires are kept for the greater part of the time in moderate weather and in order to have steam available there must be a pressure on the mains. If but one or two pipes are used in a house long mains are not economical, for no matter how perfectly they may be insulated there is always a large percentage of condensation taking place and that means loss of coal and expense. From the central main pipes are run to either end of the house, returning back on opposite sides of the house, which makes each circuit some 325 feet, which is about as far as steam can be carried to advantage under low pressure. Every pipe throughout its entire length is then a flow pipe and is brought into the return, which is located 3 feet below the flow pipe in the trench beneath the central corridor; the flow and return mains are entirely out of sight and the steam pipes entirely hid under the benches. Every pipe has exactly the same duty to perform and one pipe is the exact counterpart of the other, so that each pipe works exactly the same, each pipe takes steam exactly the same and there is no complication of any kind. No noise is ever heard and steam can be circulated practically with no indicated pressure. A feature of this system is the location of the valves, both the flow and return valves being in the corridor, so that the men in turning on additional pipes are not obliged to travel long lengths of houses if there is a sudden change in the temperature. We consider this system when properly applied and built under the best scientific principles to be the best system of steam heating for the commercial florist of to-day, especially for rose growing as the heat can be controlled at will.

In palm growing, from what experience I have had up to the present time, my preference would be for hot water, as it is necessary in the profitable growing of palms to carry a trifle of heat during the summer and I believe hot water can be run when very little heat is required, cheaper than steam, but in all other cases I give steam the decided preference.

A matter that suggests itself in reference to the subject under consideration is the destruction of green fly. Considerable was said last year about evaporating liquid tobacco. We were decidedly skeptical as to the advisability of evaporating tobacco juice, as we were afraid the moisture generated would tend to bleach American Beauty roses, of which we are very large growers, and for that reason we experimented with it some time before adopting it generally. Our experiments were satisfactory and we fitted our whole place with pans for the evaporation of the tobacco juice, and after one year's experience we can recommend it thoroughly. Galvanized iron troughs about 3 feet in length and 4 inches in width and depth were fitted to the steam pipes, the



JAMES DEAN.

steam pipes running through the troughs. By letting the steam pipes run through the troughs close to the bottom the liquid is evaporated very much more quickly than if the trough was placed on the pipe, evaporating in about two hours. This should be used more as a preventive than a cure, for if the house was badly infested with green fly it would take some time to remove them, but used constantly and regularly no green fly will appear. We have saved hundreds of dollars by the use of this simple remedy and have demonstrated entirely its desirability beyond all question.

We consider it a great advantage to take the chill from water before using for watering in mid-winter. In watering we use a steam pump to pump the water and the plan we use in tempering the water we think is as good as can be devised where steam power is used. The distribution pipe after it leaves the pump is thrown into an ordinary galvanized hot water boiler, such as is used in kitchens, entering at the bottom, the outlet being at the top. Through the center of this heater or boiler a coil of 1¼-inch pipe has been introduced, containing about 50 to 60 feet. The exhaust steam from the pump is thrown into this coil and in passing through it completely condenses, heating the water to a temperature of about 55 or 60 degrees in the coldest weather, which is about the normal temperature of the houses. The advantage of this scheme lies in the fact that exhaust steam is absolute waste and the lost heat is thus utilized. It is a very practical adaptation from this fact that there is no exhaust steam unless the pump is going and then the water is circulating, the two conditions being inseparable. This will be of very little value except to a limited number, but where the conditions exist it is a very satisfactory and cheap arrangement. The danger in putting steam pipes through the heater would be that when the water had stopped passing through the heater it would soon become so hot as to incur danger in its use, as it would soon be raised to boiling point; it would not be as economical either as our plan, where nothing but lost steam is utilized to heat with. It is very difficult in the limited time permitted in a paper of this character to treat such a subject as this at all satisfactorily or thoroughly. I hope that the few ideas here given however may be of interest to some.

James Dean.

The portrait we present in this number is a very good likeness of the newly-elected president of the Society of American Florists, James Dean, of Bay Ridge, New York.

He was born in Scotland and came with his father (who had been gardener for the Marquis of Queensberry, Kinmont Castle, Dumfriesshire) to this country in 1850, when about 5 years of age. His father became gardener on a private place in Astoria, N. Y.; it was here that the subject of this sketch, after receiving a common school education, began his connection with gardening as assistant to his father, until the war between the North and South was declared. He entered the army in 1861, in the 72d New York Volunteers, and served his country as a soldier until the close of the war in 1865; he entered as a private and came home as lieutenant in command of company B, being wounded twice in the course of his service. He was an enthusiastic soldier and still retains an active connection with the Grand Army of the Republic; was in 1890 commander of U. S. Grant Post, Brooklyn, which brought Gen. Grant's body from Mt. McGregor to Riverside.

Shortly after the close of the war he secured employment with Wm. C. Wilson, florist, Astoria, L. I., remaining with him for about two years, leaving to take charge of the garden and grounds of W. C. Langley, Bay Ridge, L. I., which was at that time one of the finest private places in that section. He remained there until about 1875, when he entered into partnership in the florist business with J. M. Keller at Bay Ridge. The firm was very successful, until it was dissolved in 1880, Mr. Dean then beginning business for himself at a short distance from the old place.

He has always been known as one of the very best growers in the vicinity of New York, his great specialties being azaleas, lilies, hydrangeas, cytisus and other Easter plants. His paper on Easter Plants, read before the convention in Boston, will be remembered as one of the most practical and valuable ever read before the society. He has always made a success of every important work he has undertaken and his many friends in the society have entire faith in his ability and fitness for his new position. He is a man of sterling integrity, whose word is as good as his bond, and his genial qualities have endeared him to all who have had opportunity of becoming acquainted with him.

Aquatics.

BY BENJ. GREY, MALDEN, MASS.

[*Read before the Toronto Convention of the Society of American Florists.*]

This subject has been so little written up by cultivators of the present day that I do not propose to attempt to treat it fully in a short paper, such as this, but simply to touch upon points of interest and methods of cultivation, which I hope may prove worthy of the attention of those now cultivating or intending to cultivate this beautiful class of plants, which deserves and no doubt will receive, in consideration of their past increase in public favor, more attention in the near future from commercial growers.

Fifty years ago a few of the leading English gardeners successfully grew nymphæas and other aquatic plants, and their cultivation was quite a feature at some of the finest places of that time, notably that of the Duke of Devonshire, where originated that superb variety Devon-

iana. The distribution of thousands of plants annually is a feature of the present day, and one which from present indications is certain to become much more important in the near future.

A few years ago many supposed that the flowers were artificially colored and were subjected to some chemical treatment to produce the different shades; now the blooms are generally admired and are sold by the leading flower stores as cut flowers, and are also used in designs and bunches on various occasions, thousands being used for these purposes.

From their historic associations the nymphæa and nelumbium have long been of much interest. Nymphæa lotus and Nymphæa cærulea were both figured on Egyptian monuments, also Nelumbium speciosum, representations of which are found on the ruins of the ancient temples. From this evidence the Egyptians were undoubtedly acquainted with it, although the plant no longer abounds in an uncultivated state in Egypt and is supposed to have been originally introduced from Asia, where it is still found plentifully in many parts.

Some confusion exists in regard to the name lotus. According to the best authorities, Nymphæa lotus is probably the true Egyptian lotus, or lotus of the Nile of the ancients and was held sacred to the god Isis, and was engraven on some of their very ancient coins. This, however, is not to be confounded with the lotus of the lotus eaters, which was a tree (Zizyphus lotus) found growing in northern Africa and bearing a sweet fruit. Nelumbium speciosum is the sacred lotus, or water bean, of India. Nymphæa cærulea is called the blue lotus of the Nile, but is also found at the Cape of Good Hope.

The introduction by several of our large cities of water plants into their public parks has done much to educate the public taste for aquatics, and in these places of easy access are admired by thousands.

The introduction of water affords one of the most effective features in landscape gardening, and when judiciously planted becomes doubly pleasing. Many estates contain low, outlying pieces of ground, half neglected, which by the introduction of water gardening might be made the most attractive of spots. If no natural body of water exists a cemented basin of any shape or extent might be made at a comparatively slight expense and planted with aquatics; the background and margins with cannas, cyperus, caladiums, Arundo donax, callas, irises, and other moisture loving plants, making a most pleasing and attractive garden. Any low piece of meadow with a clayey subsoil, and which could be inundated, if broken up and well enriched, might be planted with hardy lilies, with Villarsia nymphæoides, aponogetons and other small growing aquatics for the shallow parts, and would make a most satisfactory lily garden. The nymphæas best suited for this purpose would be: odorata and varieties, yellow and pink; alba candidissimum; chromatella, fine yellow; and for a blue N. scutifolia would probably prove hardy except for very far north. The nelumbiums should also be given a chance, for while the tubers will not stand freezing, yet if planted so that the runners could bury below frost line, they will generally stand over. The calla of the greenhouse will also winter out if planted deep enough, and would be very effective with its fine blooms. Sagittarias, nuphars, orontium, Pontederia cordata, Sabbatia chloroides and a host of native aquatic and bog plants could be added from time to time, which would make such a garden of much interest to botanists as well as mere lovers of the beautiful.

Many have no doubt hesitated about beginning the cultivation of water plants under the impression that the possession of natural ponds or the large outlay of money in preparation were necessary. To such I would say that a few tubs set in a sunny, sheltered spot, with other plants set about them, and planted with nelumbiums and tender nymphæas, would give an opportunity for their successful cultivation. The tropical kinds flower more freely than the hardy ones, as a rule, and being in tubs might be removed to a warm cellar to winter.

The compost best suited for growing them in tubs or pots is good, strong loam and well rotted stable manure, about equal parts. With the proper conditions at first supplied their after requirements are few, and these readily suggest themselves. And in making additions to the collection and with the opportunity afforded by experimenting in hybridization and the raising of new sorts, the cultivator, when once launched, will find a field of never failing interest and enjoyment.



WILLIAM R SMITH.

William R. Smith.

We have pleasure in presenting herewith a portrait of Mr. Wm. R. Smith, the newly elected vice-president of the Society of American Florists.

Mr. Smith is superintendent of the Botanical Gardens at Washington, which position he has held for a quarter of a century or more. He is a recognized authority upon botanical and horticultural matters, and in some classes of plants he cannot be excelled, often determining species that can not be determined at Kew, especially in agaves, yuccas and carnivorous plants.

He has done splendid missionary work for the trade through the distribution of new or little known plants of value to the commercial florist, and has started many an amateur on the way toward making a collection of value. He is of a very kindly nature, always ready to impart information, and the information given can always be depended upon as accurate, for he gives it only when thoroughly assured of its correctness. He has been an enthusiastic supporter of the Society of American Florists ever since its inception and has done much valuable work for its advancement, in a quiet, unostentatious way.

Mr. Smith graduated from Kew with the renowned Wm. Hooker. He was born in Scotland, and his love for the land of his birth is strong. He has one of the most valuable private Burns libraries in the world.

The S. A. F. at Exhibition Park, Toronto.

We present herewith a full page illustration, engraved from the photograph taken at Exhibition Park, Toronto, August 21. The group unfortunately did not include all present at the convention, quite a number having already left for the afternoon trains before the photograph was taken, but as can be seen a goodly crowd was still there. The background is the wall of the main exhibition building at the park.

Credits.

BY H. B. BEATTY, OIL CITY, PA.

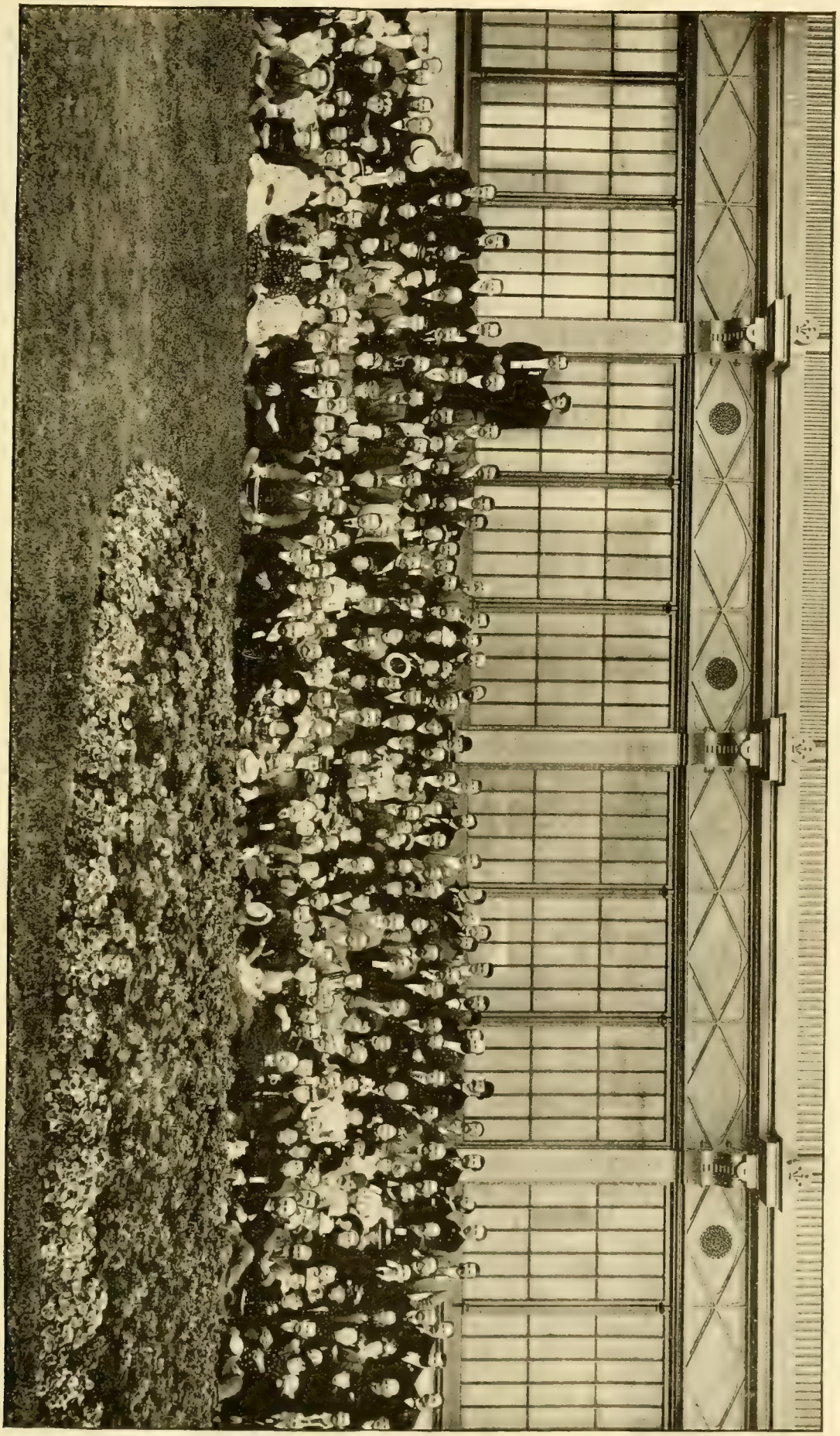
[*Read before the Toronto Convention of the Society of American Florists.*]

In assigning to me a paper on credits, your executive committee has given me a subject that I greatly fear we will find is too vast for the limits of an essay. And when I received the notification that I was requested to write on the subject, I at once wrote to Secretary Stewart, asking him if the committee had not indicated what phase of the question they wished me to write on. I received a very prompt reply saying they had not and so I was left to struggle as best I could with the subject.

In what I have to say to-day I will confine myself entirely to some points which I think all business men should ascertain before extending credit to applicants, and leave all theories in regard to the benefits and abuses of the credit system for the question box.

That the subject of credits is a very important one will be admitted by all, and that it seems to be one that requires more attention and thought than it receives is fully attested by the daily list of business failures. It is a subject of special importance to the growers of cut flowers and plants, for, owing to the perishable character of his commodity, he is specially liable to the machinations of the rascal who early realized that, as an immediate sale of the grower's stock must be made or the stock become a total loss, the buyer might, and often does, escape very serious scrutiny as to his ability to pay for what he buys. Then again, usually the stock sold to retail florists is perishable, and consequently if not sold at once is a dead loss to the retailer and also there is nothing the grower or jobber can attach in case of a failure on the part of the retail man to meet his obligations, except a small stock of baskets, designs, and fixtures, and therefore the grower or jobber should be even more careful in regard to credits than the ordinary trader is or should be.

But whom to trust and whom not to is the all-important question, and what rules, if any, can be laid down for our guidance. No "cast iron" rules can be made, as some parties under precisely the same circumstances could be safely trusted, while it would be financial suicide to trust others. I think it desirable and necessary to get reports on all applicants for credit, and to especially get and scru-



THE SOCIETY OF AMERICAN FLORISTS AT EXHIBITION PARK, TORONTO, ONTARIO, AUGUST 21, 1891

tinize closely all information obtainable on the following points:

LOCALITY.—The location of the business need not interest us so much as it might other branches of trade, for most of the buyers of our products and supplies are located in the larger cities; but I think it well for us to look somewhat as to locality, especially if the new applicant is just starting in business. Look with disfavor on any order you may receive from a point that in the usual course of trade could be filled to better advantage from some nearer place. Nine times out of ten you will find the applicant has exhausted his credit nearer home, and is looking for pastures new and fresh. Of course, if you are dealing in a specialty or something none other has this would not apply.

COMPETITION.—Look well to the amount of competition your creditor has to contend against, for on that depends to a great extent his ability to pay you. If he has not much competition it stands that he will in all probability be able to meet his obligations promptly, but if the business in his particular locality is greatly overdone, then look closely to your accounts, for while we say "Competition is the life of trade," it, if overdone, cannot be said to be the life of credits.

AGE.—I think a would-be debtor's age should be carefully considered, for the following reasons: A very young man's efforts are more than likely to be misdirected, and if he makes a failure he is very likely to "give up the ship" and drift into something else and be lost sight of; on the other hand, an old man has not the energy to combat his younger competitors, and especially so if he should be starting in a new line of business. If an old man has been raised in the business he stands a very good chance of making a success of it, but I would advise in considering "Credits" that a middle-aged man of experience, other things being equal, would be the safest to trust. If an old man fails there is not much chance of his ever getting on his feet again, while with the middle-aged there is always a fair chance of his making and paying any old accounts that may be standing against him.

EXPERIENCE.—In every business there are ups and downs that experience alone teaches us how to meet, and usually when we may expect them and also to be in some way prepared to meet and conquer them when they do come. The inexperienced man cannot foresee them, and is very apt when they do come to magnify their import and terrors and usually fails, where an experienced man can safely tide over the "bad times" and knows how to husband his resources in "good times," and so be prepared for the "rainy day" which he knows is sure to come. It is scarcely necessary to say that a man's experience should be carefully considered in extending "credit."

CHARACTER AND HABITS.—This is the most important point on which we can get information, for ability, experience, or even capital would hardly compensate for the lack of good character. In the case of the average capital of a man in business ($1,000 to $5,000) it is the man's honor more than his capital that we have to rely on for our payment, and so too much stress cannot be laid on the point of character and habits. Look to that part of your report closely.

MARRIED OR SINGLE.—It may seem a strange question to ask of an applicant for credit whether he is married or single, but we all know that if a man comes to us for employment that about the first question we will ask him is, "Are you married?" and the married man will usually get the preference for a number of reasons, among which are these: Having a family, we look on him as more stable, more jealous of his honor, as any action reflecting on his honor or integrity injures his loved ones. Then again, he is removed from some temptations that a single man has, and also, having others beside himself to provide for he will be more diligent and attentive to business.

HONESTY.—"Honesty is the best policy" has been written over and over again by us all, and sounded into the ears of the rising generation from time immemorial, but still some people will not be honest. As it is almost impossible to protect yourself against a dishonest man, if your applicant for credit cannot show a clean record as to honesty, have nothing to do with him.

ECONOMY.—We all know that people will buy more if it can be had on credit than if they have to pay cash for it, and as a dealer not only has all his own money at hand, but also his merchandise bought on credit, to do with as he pleases, it behooves us to know whether an applicant for credit is economical or not, as on that point depends to a great extent his ultimate success and ability to pay his bills. If you find his personal and business habits expensive, go slow in extending him credit.

CAPITAL.—This might seem to be the first consideration in considering an applicant for credit, but while very important it is not the most so. You will find as business is now conducted that no house confines its business to its cash capital, but uses instead confidence, and confidence of a community or business associates is frequently almost as good as money. If a man by some dishonest or strange action has forfeited the confidence of the community in which he does business, a greater part of his resources are crippled and his chances of success are very greatly lessened

The limits of this paper will only permit me to briefly mention other points that should be carefully considered in extending "credit." Business education; old record, if any—look carefully to that and also to a man's antecedents; assets, such as stock and personal property, accounts and bills receivable and real estate; liabilities; volume of business; punctuality; chattel mortgages and other liens; insurance; limit of credit.

Awards on Trade Exhibits at Toronto.

The committee on bulbs and seeds awarded honorable mention to H. A. Dreer, Philadelphia, Pitcher & Manda, Short Hills, N. J., and J. C. Vaughan, Chicago, for displays of bulbs.

The committee on cut flowers awarded certificates of merit to H. A. Dreer, Philadelphia, for collection of petunias; to C. H. Allen, Floral Park, N. Y., for collection of gladioli; to Fred Mitchell, Innerkip, Ont., for collection of tuberous rooted begonias; and to W. H. Elliott, Brighton, Mass., for Asparagus plumosa. Also special mention to H. A. Dreer, Philadelphia, for cannas, and to Wm. Tricker, Dongan Hills, N. Y., for water lilies.

The committee on florists' supplies awarded a certificate of merit to W. P. Wight, Madison, N. J., for a growers' cut flower shipping box, and honorable mention to H. Bayersdorfer & Co., Philadelphia, for best exhibit of florists' supplies; to D. B. Long, Buffalo, N. Y., for floral photographs; to N. Steffens, New York, for wire goods; to J. A. Simmers, Toronto, Ont., for miscellaneous florists' supplies; to J. C. Vaughan, Chicago, for miscellaneous florists' supplies; to W. C. Krick, Brooklyn, N. Y., for display of immortelle letters; to H. A. Bunyard, Short Hills, N. J., for chrysanthemum cut flower exhibitor.

The committee on plants awarded certificates of merit to Pitcher & Manda, Short Hills, N. J., for collection of orchids; to same, for stove and greenhouse plants; to same, for specimen of Pteris Victoriæ; to Manton Bros., Toronto, Ont., for specimen Pteris Hallamii; to H. A. Dreer, Philadelphia, for collection of palms and ferns. Honorable mention was given to Cottrell Bros., Toronto, Ont., for ornamental plants; and to Robert Craig, Philadelphia, for palms and other decorative plants.

The committee on boilers and greenhouse construction awarded a certificate of merit to W. P. Wight, Madison, N. J., for a bench tile, to take the place of boards or slates in the bottom of greenhouse benches. They made no other awards, but enumerated apparent points of excellence in several of the articles shown. Following is the remainder of their report:

"Herendeen M'f'g Co., exhibits one large brick set Furman boiler, one smaller surface burning boiler, both for hot water. The vertical circulation of the water and manner of the circulation of the draft through the back tubes as it enters the chimney, points to great economy of fuel. E. C. Gurney Co., exhibit hot water heaters. They are strong, compact and easy in construction, easy to clean. Good circulation is secured by three water columns. Arrangement of heating surface is very good. Edw. W. Holt, exhibits rubber hose of different sizes, armored and plain; also rubber aprons, etc. These goods could only be judged by actual use. E. Hippard, exhibits model of ventilating apparatus, applied in three ways, outside, inside and side ventilating. Operating wheel can be adjusted to any angle, quick and even in operation and not liable to accident. Quaker City Machine Co., exhibits ventilating apparatus, easy of action and simple in construction. The iron work is well finished. The mode of fastening wheel to the shaft is the best we have seen. Davis & Son, exhibit a large variety of flower pots, seed pans and vases, apparently hard and strongly made, though of light color. Geo. Plant makes a creditable exhibit, including standard pots very nearly correct in size; also well finished hand-made pots and vases of large size. A. H. Hews & Co.'s exhibit of flower pots did not arrive in time for exhibition. Lockland Lumber Co. make an exhibit of a section of greenhouse and samples of sash bars. Equally as good as exhibited by this company before. Warden King & Sons exhibited one Spence water heater, strong and simple in construction and easy to keep clean. Detroit Flower Pot Manufactory exhibits samples of standard pots that are well made and correct in measurements. Essex Heights Floral Co. exhibit double jointed galvanized steel glazing points, strong and easily applied, there being no rights and lefts."

An Illustration with a Moral.

The accompanying engraving is from a photograph taken June 13 last and tells plainly a story that every grower should have deeply impressed on his mind. Not only does quality pay, but care in gathering, bunching and marketing is



AN ILLUSTRATION WITH A MORAL.

necessary to secure the best financial returns and without these essentials, previous good quality counts for but little. It is the condition in which the flowers reach the consumer that tells. Whatever they may have been before that counts for nothing if their beauty has afterward been annihilated by improper handling. After you have spared no effort to grow good stuff don't permit careless or inexperienced hands to at one blow destroy the results of previous good work. And under present conditions good quality and careful packing mean something more than a little higher price. They frequently mean a sale at good prices as against an absolute loss when quality and packing are poor. In times of surplus it is the flowers that reach the market in best condition that are sold and it is the poor stuff that is "dumped." And not infrequently flowers of rather inferior quality find a readier sale when well cut and packed than flowers which are better grown but not so well presented to the buyer.

Bedding Coleus.

It is with some trepidation that I venture to write of the coleus, bearing in mind the contemptuous regard bestowed upon it by Bro. McMillan at the Buffalo meeting of the S. A. F. But as many florists continue to use it, while a legion or so of florists' customers are so plebeian in their tastes as to admire it, in spite of Bro. McMillan, I am tempted to brave that gentleman's displeasure and say a word or two about existing varieties, with an eye to greater effectiveness in its use.

Heretofore our choice of really good coleus for bedding purposes has practically been confined to three or four varieties, and probably 80 per cent. of the bedding has been done with crimson Verschaffeltii and Golden Bedder. These are splendid sorts and they will undoubtedly keep their place at or near the head of the list, but they are no longer alone in their eminence. We now have other varieties of equal excellence, widening the range of color, and our coleus beds, instead of being an unvarying blaze of crimson and gold, may almost literally take on the hues of the rainbow.

First among the newer varieties should be placed Golden Verschaffeltii. It is another yellow, but it is one we want. Golden Bedder is far from being a fitting companion to crimson Verschaffeltii, whose vigorous growth often outstrips its hesitating and sometimes erratic mate, and a provoking irregularity of contour results. Golden Verschaffeltii is in every way worthy of its name, and its graceful, clear lemon yellow foliage keeps abreast of the most robust growers. I have it in very effective proximity to Glory of Autumn and Firebrand, and also alongside its crimson namesake. It is *the* yellow of the present as well as of the future. However, it does not take kindly to severe pinching back, and for that reason is difficult to propagate in winter.

Chicago Bedder (why Chicago I don't know) is a coleus which should and will be more widely known than it is. It is the counterpart of Golden Bedder, except in color, which is a clear, solid mahogany red, verging toward terra cotta. Constant in color under all circumstances, healthy and clean in growth, and of compact semi-dwarf habit, it seems to possess the elements of usefulness and popularity. The two "bedders" will match each other as well as the two Verschaffeltiis.

Yeddo is a decided acquisition. The mingling of emerald green and light yellow, shading to white on the edges of the leaves, has a very pleasing effect in mass, while in its habit of growth and immunity from injury by sun or weather it is near perfection. Shelby's Yellow, offered last season, is identical with it, and I have it under still another name.

Glory of Autumn is a grand coleus, useful for any purpose. When fully colored in August and September a bed or a clump or a single plant of it is a striking object.

Crimson Bedder cannot well be excelled for its warm tints and graceful foliage. It is a luxuriant grower, and will overtop Verschaffeltii, from which it differs materially in color.

Firebrand is rapidly growing in favor, and is always reliable. Its dark maroon foliage, with lurid shadings, renders its name very appropriate.

Still darker, even to blackness, is the well-known Hero, which requires some care to make it grow well.

Black Knight is darker still, approaching jet black. More dwarf and every way different from Hero, it is a compact, good grower.

Probably the best green foliaged coleus is Kirkpatrick, but in some situations Peter Henderson affords a better contrast, being lighter in color and more dwarf in growth.

J. Goode, very distinct and fine in growth and habit, fluctuates between green and yellow, but when well colored in a sunny position is very satisfactory.

Henderson's new Silver Leaf is well liked by some growers, but with me it shows very little silver. If it does well on further trial it is certainly a desirable acquisition.

Among the newer fancy sorts are a

number which do well bedded out, and afford novel effects in color. Rob Roy, carmine-scarlet, its crinkled edge penciled yellow, and Bizarre, purplish crimson, bordered dark green, are both excellent; Sunset, a commingling of maroon, carmine and green; Variabilis, combining these and other shades in a very handsome leaf; Sun-ray, a warm shade of crimson with yellow edge; Mrs. Watts, green, yellow and pink ground, thickly spotted with crimson; Fitzpatrick, marbled yellow and crimson, and Spotted Gem, marbled and blotched yellow, black, maroon and crimson, are all fine growers, constant in color and distinct.

Of fifty varieties I have, the twenty above named are all doing well bedded in the ordinary way, but the bedders par excellence are the ten or twelve first named, which certainly afford a very fair range of color contrasts.

ALEX. MCBRIDE.

Alplaus, N. Y., Aug. 25.

Philadelphia.

Toronto is an Indian word and means a place of meeting. It was a very good place To-run-to, and this is how we got there:

At the depot on the morning of the 17th all was bustle and hurry. "Did you get your ticket?" "No." "Well, be sure to ask for certificate." "Did you see John?" "Yes, he was here a minute ago; there he is." "Hello old boy, glad to see you are going!" "Why Dan, thought you said you weren't going." "Why, there's Baker; what a time we will have!"

These and a hundred similar expressions were heard on all sides as the party gathered together. Quite a number of the boys who were not going were on hand to see us of. "Now be sure and bring the cup back with you" came from the bowling contingent. "We will indeed," was the response. "The balls, oh gracious, here Billy, take a hansom and bring three of a size, quick. You've only five minutes." But it was enough, and just as the balls were rolled into the car the train rolled out of the station and the cup was safe.

It was a beautiful day, the fresh country air was delightful, the scenery and ever changing landscapes which were opened up as we sped along never seemed more beautiful.

A Pullman sleeper and combination baggage and passenger car carried us through without change. A great deal of credit is due to Mr. John Westcott for the manner in which he furnished the baggage end of the combination car. A baggage car is seldom a very inviting place, but this time it seemed to be the most popular part of the train. Charlie Kohler had charge, and although he was most generous, it was impossible to exhaust the supply.

Mr. Shroyer and wife joined the party at Lancaster, Mr. McFarland and wife at Harrisburg, Mr. Dillon and wife at Northumberland, and Mr. Harry Chaapel at Williamsport.

The boys were out for a good time and many pranks were played on one another. It really did look as if Baker would not get there alive; it was all Messrs. Weiss and Crawford could do to keep him straight. He got mixed up in a game of euchre at last, but his partner had to give it up. At the same time there was an animated discussion going on in the smoking end of the Pullman, about flushes, straights, full houses, etc., which was very entertaining, and offered much amusement.

The day was passed very pleasantly and about 11 P. M. all turned in for the night. When suspension bridge was reached there was a halt, the custom house officers were not satisfied about some sample plants sent by Mr. H. A. Dreer; after considerable difficulty the matter was adjusted and we passed on to Hamilton, where we lay until morning. At 7:30 we were off again, reaching Toronto after a two hours' ride.

Toronto is a beautiful city. The streets all run at right angles and are very well paved, a great many of them with wooden blocks. These are cross sections of white cedar logs about 6 to 8 inches long and from 6 to 12 inches in diameter and are said to last from 10 to 12 years if properly put down. There is also quite a lot paved with asphalt, which they think very well of. Except in the business portion of the city, the streets are lined with shade trees planted in a sodded border between the sidewalks and roadway. As the streets are all of good width this feature adds to their beauty very materially and this together with the cleanliness which is everywhere apparent makes Toronto one of the handsomest of American cities.

The convention hall was beautifully located and was all that was claimed for it as a place of meeting, there being no rumbling wagons to disturb the proceedings.

The drive about the city, given to the ladies of the society was very much enjoyed. They were shown all places of interest and afterwards partook of a lunch at Island Park, an island in the lake about fifteen minutes' ride by boat. The band of the Queen's Own Rifles was present and rendered some good music.

Wednesday afternoon was spent by all at Alderman Hallam's country seat, Chorley park. It is a new place with very fine natural scenery and after Mr. Hallam's plans are carried out, will no doubt be one of the handsomest private places of the country. A very fine band of music was present and rendered a number of airs, popular with us, which were very much appreciated. Mr. Hallam's daughter, a very bright little girl, recited several selections which delighted all who could get within hearing; the selection, "Finishing the Baby," was very amusing.

On Thursday afternoon the bowling match, one of the events of the week, took place. A great deal of interest was manifested by the various teams and their friends, and at least five clubs felt sure of taking the cup home with them. Of course as only one could have it the only way to get it was to roll for it, and roll they did. Such rolling! There were strikes upon strikes and spares and breaks; every one had a look of determination on his face. Such expressions as "now play carefully, get that spare, you can make it"; "my, wasn't that close"; "good boy, another strike"; "never mind, you made a good try," were heard as the separate teams met with varying success. But when the Philadelphia boys had rolled off their last game and it was found they had made 1848 pins and had tied New York the excitement was at fever heat. It was decided to roll off five more frames, half a game. For the first frame or two it looked doubtful for Philadelphia, but then the boys took a brace and pulled ahead, John Westcott making the splendid total of 110 pins. When the game was finished the score stood 48 pins in Philadelphia's favor. When the result was announced the New York team gave Philadelphia three rousing cheers, which were returned with a good will, and the match was over.

The next day was spent with the Toronto Florists' Club in a sail on the lake for about two hours, when we were taken to the exhibition grounds on the lake front near the city. It is a very pretty place; the bedding is fine and the lawns very well kept. A collation was served in the annex to the main building, which was nicely decorated for the occasion. After feasting on the good things provided we were entertained by some very good speeches, humorous and otherwise, and some good singing; finally all adjourned to the lawn, where a photographer in waiting took a picture of the group, after some difficulty with a dog and a certain Scott. The boat was now taken and in a short time all were back in the city immensely pleased with their trip.

Next morning there was a general exodus, most of the Philadelphia delegation coming home via Niagara Falls and Watkins Glen.

Long live the Toronto Florists' Club and the good people who worked with them to make our visit one long to be remembered. Z.

Boston.

The Toronto delegates returned home to find everything about as they left it, but one unfortunate incident having occurred to break the wonted midsummer stillness of the flower trade in this vicinity. On Thursday, Aug. 20, W. S. McGregor, a well-known grower residing at Woburn, during an altercation on Bosworth street near Horticultural Hall, was stabbed by a man named Daniel Downey. On Saturday, Aug. 29, McGregor died from his injuries at the Mass. General Hospital and his assailant has been held for murder.

The cut flower trade has been unusually dull throughout August. Prices are very low on all grades of flowers. There has been but little demand from sea-side resorts. The asters and gladioluses offered in this market this year are of extra fine quality.

The annual exhibition of plants and flowers of the Massachusetts Horticultural Society was held September 1, 2, 3, and 4, at Horticultural Hall. Both halls were filled with exhibits, and the attendance was large. A full account of the exhibition will be given in our next.

Ernst Asmus and Alex. Burns turned up at the Hub on Sunday morning, August 30, fresh from the fishing ground of Megantic, whither they had gone at the close of the Toronto convention. It was impossible to ascertain from their accounts either the number, size, or age of the fish they had or had not caught.

W. J. S.

THE Toronto Gardeners' and Florists' Club gave the S. A. F. a royal welcome, as everyone who mentioned the subject agreed in saying. There were no unfortunate hitches anywhere, none of the excursions too long or too complicated. In fact, all the entertainment arrangements passed off smoothly, and those who wished to make the afternoon trains were able to do so. It was a wise move that took the society to the province of Ontario.

THE exhibitors at Toronto found themselves somewhat handicapped by the customs affairs, and complained also of the immediate closing of the hall after the sessions, giving them no time for business. There was some justice in these complaints. The space was charged for at

usual prices, displays were delayed at customs, and all business closed during sessions of the society. Nearly all exhibitors unite in claiming to have lost their time, labor and money. Perhaps we must try again the New York plan of holding the exhibition in a separate hall. The S. A. F. must deal justly with every class.

THE Florists' Telegraph Delivery Association was organized at the Toronto meeting. Its object is to maintain a chain of correspondents throughout the world to act together as one concern for the purpose of executing orders transmitted by its members from one city to another. Its officers are C. B. Whitnall, president; H. A. Siebrecht, vice president; H. B. Beatty, secretary and treasurer; directors, W. F. Gale, Frank Huntsman, John Westcott, R. J. Mendenhall, E. S. Nixon, D. B. Long.

News Notes.

SYRACUSE, N. Y.—Albert Burt, the florist, is reported to have returned to this city.

BALTIMORE.—One of the daily papers is agitating the question of a flower market for this city.

ST. PAUL, MINN.—Mr. Cary I. Warren is erecting a number of rose houses at Warrendale. The houses are being built in a very substantial way.

HARRISBURG, PA.—Two wings, each 20x45 feet, are being added to the conservatory in Capitol Park. The additional room was sadly needed.

HARTFORD, CONN.—A special meeting of the Hartford County Hort. Society was held August 26 to make final arrangements for the September exhibition.

LIMA, O.—Swan Bros. are erecting a range of greenhouses here. They will also establish the Ohio Nurseries. Their specialties will be cut flowers and hardy plants.

GALESBURG, ILL.—Mr. Ed. R. Gesler, of the firm of Pillsbury & Gesler, florists, was married August 13 to Miss Lida Winslow, at the home of the bride's parents, Macomb, Ill.

CINCINNATI.—Mr. J. S. Cook is closing up his business as florist and nurseryman with the view to a permanent retirement. He began business here in 1848 and has been in the trade ever since.

QUITMAN, GA.—The recent meeting of the Georgia State Hort. Society was one of the most enjoyable and valuable ever held by the society. Much interest in horticultural matters is being awakened by its work.

NEW BRITAIN, CONN.—The midsummer flower show of the Horticultural Society was very successful, it being the general opinion that it was more interesting and better in every way than any other given by the society.

DETROIT, MICH.—Mr. A. Breitmeyer has retired from business. The establishment that has so long been conducted under the firm name of A. Breitmeyer & Son, will be continued by Mr. A. Breitmeyer's step-sons under the firm name of Rauss Bros.

FOSTORIA, O.—Sacket & North have succeeded E. R. Sackett. The new firm has just completed two new rose houses each 70x20 and a carnation house 150x13, making a total of about 8,000 square feet of glass. The output will be mainly cut flowers.

NEWPORT, R. I.—Klunder & Co., a firm of florists from New York are in trouble. The sheriff paid them a visit August 6 but found nothing to levy upon. All the contents of the store had been removed and no trace of either goods or owners could be found.

CLEVELAND.—A project is on foot to form a horticultural and botanical society, which shall establish a horticultural garden to approximate, if possible, the Shaw Garden in St. Louis. Several representative men who are lovers of flowers are interested in the project.

AURORA, ILL.—An exhibition of chrysanthemums will be held here November 3 and 4 next, under the auspices of one of the local churches. All the florists will participate. Premiums to the amount of $85 are offered in the various classes. Anyone desiring further information may obtain same by addressing Mrs. M. S. Rice, 55 N. Fourth street.

MACON, GA.—Capt. D. B. Woodruff, the florist, has beautified the park in front of the Macon Volunteers' Armory in a novel way. He laid out a hollow plat in the shape of a fort, with hollow bastions at the four corners and with an opening at the lower side. Flowers of various kinds are planted in this plat and a cannon mounted in the hollow square.

SAN FRANCISCO.—At the August meeting of the California State Floral Society the attendance was so large that the capacity of the rooms in which the meeting was held was taxed to the utmost. Ferns and palms were the subjects discussed, and a deep interest was taken by all present. The society is doing much to advance floriculture in this section.

MEADVILLE, PA.—The second Presbyterian Sunday school gave its tenth annual floral exhibition August 20. The display exceeded that of any previous exhibition and was a very gratifying success. Florist August Krueger of this city made an elegant general display and the Oakwood Rose Gardens, Oil City, exhibited a fine collection of cut roses.

INDIANAPOLIS.—Mr. Wm. G. Bertermann has returned from his trip to Europe and reports having had a delightful vacation. A new firm has started into existence, John Rieman & Co., doing a store business only. The florists of this city will probably take a meagre interest in the coming State Fair. A new State Fair Park and better Floral or Horticultural Hall is promised for next season.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By an experienced florist; 30 years' experience. Address
E HAY, 200 N. Green St., Chicago.

SITUATION WANTED—By experienced cut flower grower, commercial or private; first-class references. Address H B, care American Florist.

SITUATION WANTED—By a young man, German, single, 28 years of age, as general greenhouse assistant; good experience. Address
WM. WITTLER, 1310 S 5th St., La Crosse, Wis.

SITUATION WANTED—By a landscape gardener; 25, single; can draw his own plans, or will work as assistant. Has good knowledge of orchids. Address H, care American Florist, Chicago.

SITUATION WANTED—As propagator and grower of roses, rhododendrons, clematis, stove and greenhouse plants. Commercial, or would accept position as second in private place. Address
C M, 208 Dartmouth St, Boston Mass.

SITUATION WANTED—By a first class florist, propagator, landscape, fruit and vegetable gardener; 20 years' experience. References from Fancher Creek Nursery, Fresno, Cal.
HENRY BELLER, 2229 Larimer St, Denver, Colo.

SITUATION WANTED—By an experienced gardener and florist; good grower of roses, carnations, violets and all kinds of greenhouse plants. Good references; English, age 33, married; Commercial or private. Address
J D, 183 Mill St., Poughkeepsie, N. Y.

SITUATION WANTED—As headgardener in private place; 20 years' experience; understands the growing of plants, cut flowers fruits and vegetables. Roses and violets a specialty. Married; age 36; family small. First-class references. Address
GARDENER, box 92, Northport, L. I., N. Y.

SITUATION WANTED—By a good all round man as manager, florist's or private establishment; 25 years practice, private and commercial in England and America. Successful plantsman and cut flower grower; also quick and tasteful at floral work. Abstainer; married, one child. Address
FLORIST, P. O, Victoria, B. C. Canada.

SITUATION WANTED—By gardener of executive ability and experience of all requisites and routine of commercial place, inside and outside operation, general propagation, successful growing of cut flowers, roses, pot plants, accessories to the nurseries, etc. Address
HORTICULTURAL, care American Florist.

SITUATION WANTED—By a first-class florist and gardener; German; 10 years' experience in growing roses, carnations, ferns and all kinds of other plants. Good cut flower worker and decorator. Very industrious; honest; first-class references; as head gardener on private or commercial place. Address G. F. DIEZ, care Schemof & Schubart,
Wheeling West Va.

WANTED—Wholesale catalogues and price lists of plants and florists' supplies.
SWAN BROS., Lima, Ohio.

WANTED—To lease or buy greenhouses, dwelling and land, near good market. Address
H. WISE, Mt. Prospect Ave., Newark, N. J.

WANTED—Three or four hundred feet 4-inch cast pipe; second-hand, in good condition.
LOGANSPORT FLORAL CO., Logansport, Ind.

WANTED—PARTNER—Enterprising young florist wanting to go into business will find out something to his interest by writing to
BOX 65 Kenton Ohio.

WANTED—A thoroughly competent rose grower, capable of managing a large establishment. Apply HORTICOLE,
Grand Central Hotel, New York City.

WANTED—Young man to assist in wholesale cut flower commission store. One who thoroughly understands packing and shipping. Address
M A C, care American Florist, Chicago.

WANTED—Every florist to send for my circular of Little Giant Ventilating Apparatus. See my adv. in convention supplement.
W. H. HUMFELD, 16 E. 7th St., Kansas City, Mo.

WANTED—A foreman who thoroughly understands the propagation and growing of roses and can handle men. Address with references,
ROBERT SCOTT & SON, 19th and Catherine Sts.,
Philadelphia, Pa.

WANTED—A man who has been successful in the management of a first class horticultural establishment, including a knowledge of forestry. Apply HORTICOLE,
Grand Central Hotel, New York City.

WANTED—At St. Augustine, Fla., for 3 months' engagement, commencing January 1, a young woman who is a thorough artist in the arrangement of cut flowers; must be quick and of pleasing address; one from near New York preferred. Address giving age and experience. FLOWER DEPARTMENT OF EL UNICO, Postoffice box 2832, New York City.

FOR SALE—Locomotive steam boiler, 20-horse power. For further particulars, address
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FOR SALE OR RENT—Good frame dwelling and two greenhouses, several thousand pots and good stock of plants, which will be sold at one-half wholesale prices. Rent $10 a month. Would sell at a great bargain. Address
MRS. CHAS. PENRY, Delaware, Ohio.

FOR SALE—Two second-hand Hitchings hot water boilers, No. 18. These have been in use only a short time and for all practical purposes are as good as new. Also 1000 feet of Hitchings 4-inch pipe, together with a quantity of T's, elbows and branches. If you can use all or any part of these, we will make you a very low price for cash. Write us for terms.
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NOTICE.

WANTED—A man to propagate and do most any kind of work; also a man to work in the greenhouse and fire a low pressure steam boiler. Address
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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

September 8–10, Hartford, Conn.—Fall exhibition Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

September 15–17, Boston.—Annual exhibition of fruits and vegetables, Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

September 22, Hamilton, Ont.—Fall exhibition of the Electoral District Hort. Society and Gardeners' and Florists' Club.

September 25–26, Gloucester, Mass.—Exhibition Cape Ann Hort. Society. Wm. Lufkin, Sec'y.

October 27–31, Los Angeles, Cal.—Annual exhibition Southern California Hort. Society. H. W. Kruckeberg, Sec'y, Los Angeles, Cal.

November 2–7, Louisville, Ky.—Chrysanthemum show Louisville Florists.

November 2–8, New York—Chrysanthemum show Madison Square Garden. J. W. Morrisey, Sec'y, Madison Square Garden.

November 3–5, Hartford, Conn.—Chrysanthemum show Hartford County Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

November 3–6, Boston.—Chrysanthemum show Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

November 3–6, Milwaukee, Wis.—Chrysanthemum show Wisconsin Florists' and Gardeners' Club. W. H. Ellis, Sec'y, 133 Mason St., Milwaukee.

November 3–7, Detroit, Mich.—Chrysanthemum show Detroit Florists. Robert Flowerday, Sec'y, 460 John R. street.

November 4–6, Providence, R. I.—Chrysanthemum show Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

November 4–6, Wooster, O.—Exhibition Wooster Floral Club. W. A. Porter, Sec'y.

November 5–7, Erie, Pa.—Chrysanthemum show Erie Chrysanthemum Club. H. Tong, Sec'y.

November 5–11, Bay City, Mich.—Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y, 811 North Water street.

November 10–12, Pittsburg—Chrysanthemum show Pittsburg and Allegheny Florists' and Gardeners' Club. G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.

November 10-12, Newport, R. I.—Chrysanthemum exhibition Newport Horticultural Society. John Butler, Sec'y, Berkeley Ave.

November 10–12, Toronto, Ont.—Chrysanthemum show Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School, Toronto.

November 10–12, New Bedford, Mass.—Chrysanthemum show New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.

November 10-12, Washington, D. C.—Chrysanthemum show Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St. N. W.

November 10–12, London, Ont.—Chrysanthemum exhibition Forest City Florists' and Gardeners' Society. Wm. Gammage, Sec'y, P. O. box 155.

November 10–12, Oshkosh, Wis.—Chrysanthemum show Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.

November 10–13, Philadelphia.—Chrysanthemum show Penna. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

November 10–13, Chicago.—Fall exhibition Horticultural Society of Chicago. James D. Raynolds, Sec'y, Riverside, Ill.

November 10-13, Minneapolis, Minn.—Chrysanthemum show Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.

November 10–13, Baltimore.—Fall exhibition and chrysanthemum show Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.

November 10–14, Indianapolis.—Chrysanthemum show Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.

November 11–12, Worcester, Mass.—Chrysanthemum show Worcester County Hort. Society. Edward W. Lincoln, Sec'y, 5 Oak St.

November 11-12, Galt, Ont.—Chrysanthemum show Galt Hort. Society. Thos. Vair, Sec'y.

November 11–12, Montreal.—Chrysanthemum show Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.

November 11-13, St. Louis.—Chrysanthemum show St. Louis Florists' Club. Emil Schray, Sec'y, 400 Pennsylvania avenue.

November 11–13, Springfield, Mass.—Chrysanthemum show Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St.

November 11–13, Utica, N. Y.—Fall exhibition Utica Florists' Club. J. C. Spencer, Sec'y.

November 12-14, Buffalo.—Chrysanthemum show Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.

November 17–19, New Orleans, La.—Chrysanthemum show New Orleans Horticultural Society. Chas. Wise, Sec'y, Third and Prytania Sts.

November ———, Germantown, Pa.—Chrysanthemum show Germantown Hort. Society. Thos. E. Meehan, Sec'y.

November ———, New Haven, Conn.—Chrysanthemum show New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 478 Orange street.

November ———, Syracuse, N. Y.—Chrysanthemum show Central New York Hort. Society. H. Youell, Sec'y, 228 Beecher street.

November ———, San Francisco.—Annual fall show California State Floral Society. Emory E. Smith, Sec'y, 321 Market St.

November —— ——, Little Rock, Ark.—Chrysanthemum show Little Rock Florists' Club. D. M. Tipton, Sec'y.

W. C. WILSON, of Astoria, is offering 25 per cent. in final settlement of his affairs, payable 30 days after acceptance.

CHARLEY ANDERSON expects to see sash bars made of aluminum when it gets down to 12 cents per pound.

MR. W. K. HARRIS' apostrophe to the rubber tree was considered a gem.

THE WORLD'S FAIR.

An effort may be made to change the location of the Horticultural Building at the World's Columbian Exposition to a place where the building, or at least the central portion, may remain as a permanent conservatory after the close of the great exposition. The large island in the lagoon has been suggested as an excellent permanent site, and the building could be placed there without necessarily destroying all the trees. The main part of the building could be erected as a permanency and the wings and annexes so built that they could be readily removed after the close of the fair, without in any way injuring the architectural effect of the main part.

It is believed that if the Horticultural Building is to be made a permanency many contributions of immense specimen plants can be secured that would otherwise be withheld, as the owners while willing to send such specimens to form part of a permanent national collection, would be loath to run the risk of their total loss simply for a few months' display. And to such an exhibition would be contributed many large specimens that have outgrown the limits of the conservatories which they at present occupy. In addition to these there will be brought from their habitats specimens of tree ferns, palms, crotons and similar decorative plants of larger size than any ever seen here before—giants such as have never before been in cultivation, and such as no existing conservatory would be large enough to house. All these will be gathered together in the great horticultural building at the Fair and it is of vast importance to horticulture that such a magnificent collection should be made permanent.

Many of the plants that would be contributed to such a collection from public and private conservatories are now historical, and if gathered together in a permanent collection would be a standing national monument of lasting interest and value.

This is a splendid opportunity for the formation of the grandest collection of decorative plants, the finest collection of economic plants, and the most complete assembly of unique specimens in the world, and it should not be permitted to pass unimproved.

We trust that the powers that be will weigh the matter carefully, and if the site already assigned the horticultural building is not eligible for a permanent conservatory, that such change be at once made as to permit the execution of the plan above outlined.

THE question of the real value of the seventh annual meeting as compared with its predecessors is one of interest to friends of the society, especially to those unable to be present. In real worth of papers presented we are sure the coming report will equal, if not exceed, any yet published. The attendance the first two days could not be criticised, but on Thursday everything seemed to go to pieces. It was unfortunate that the bowling contest required so much time. The general impression seems to be that the executive committee must meet some of the difficulties here observed, and prevent their repetition at the next meeting. The question of exhibitors' privileges will have to be met. Considerable complaint was made of the limited time given them.

WE MISSED from the New York delegation F. R. Pierson, John H. Taylor, Julius Roehrs, A. D. Cowan, Wm. Elliott, and other old members.

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Wholesale Markets.

Cut Flowers.

	BOSTON, Sept. 1.
Roses	2.00 @ 4.00
Carnations	.50 @ .75
Asters	.35 @ .50
Gladiolus	2.00 @ 4.00
Hydrangeas	2.00 @ 4.00
Allamandas	2.00 @ 3.00
Japan lilies	3.00 @ 5.00
Smilax	10.00 @ 12.00
Adiantums	1.00 @ 1.50
Asparagus	50.00
Pink pond lilies	8.00

	PHILADELPHIA, Sept. 1
Roses, Beauties	8.00 @ 15.00
" La France, Albany	3.00 @ 4.00
" Mermets, Brides	3.00
" Perles, Niphetos	2.00 @ 3.00
" Gontiers	1.00
" Marie Guillots	2.00
Valley	5.00
Carnations	1.00
Asters	1.00
Tuberoses	5.00
Sweet peas	.35
Adiantums	1.00
Smilax	15.00

	NEW YORK, Sept. 1.
Roses, Gontiers, Niphetos	1.00 @ 2.00
" Perles, Cusins	1.00 @ 2.00
" Wattevilles	1.00 @ 2.00
" Mermets, Brides	1.00 @ 3.00
" La France, Albany	2.00 @ 4.00
" Beauties	2.00 @ 15.00
Carnations	.50
Smilax	6.00 @ 12.00
Adiantums	.50 @ 1.00

Supply far in excess of demand at present.

	CHICAGO, Sept. 1.
Roses, Am. Beauties	8.00 @ 12.50
" Wabans, Mermets	3.00 @ 4.00
" La France, Albany	3.00 @ 4.50
" Brides	3.00 @ 5.00
" Wootton	3.00
" Perle, Niphetos	2.00 @ 4.00
" Gontiers	1.00 @ 2.50
Carnations, long	1.00 @ 1.50
Carnations, short	.50
L. auratum	8.00
Astors	.50
Smilax	15.00
Adiantums	1.00

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THE CUTS
USED IN ILLUSTRATING THIS PAPER.
Write for prices on any which you have seen in previous issues and would like.
AMERICAN FLORIST CO.
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Return telegrams sent where orders or parts of cannot be procured in our market.
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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

MR. T. V. W. BERGEN, of the old firm of A. D. Cowan & Co., seedsmen, New York, died August 15, aged 48 years. Mr. Bergen was out with a fishing party Tuesday, August 11, in an open boat and suffered an attack of sunstroke from which he gradually grew worse, and died Saturday night. Mr. Bergen was well known among the Long Island market gardeners, and highly esteemed for his liberality and open-heartedness. He leaves a family consisting of a wife and two daughters, well provided for.

MR. W. ATLEE BURPEE, who has just returned from Europe, reports two new pansies to be introduced soon, one snow white, having instead of the usual yellow eye two smaller petals of pure white; another is a good red, to be called Cardinal.

RUMORS of the organization of a mammoth combination of seedsmen, as proposed last season, are again in circulation, and several firms are said to have placed values on their establishments.

JOHNSON & STOKES are remodeling their office and doubling its size. They are making a specialty of winter seed wheat. Their Dixie watermelon is certainly one of the sweetest.

REPORTS from Philadelphia and vicinity on the onion set crop show present prices, yellows $2.25 to $2.50, whites $2.50 to $2.75. The latter average rather large this year.

NEW YORK.—Weeber & Don, are remodeling their Chambers street store. They have added new seed drawers and repainted inside and out.

MANY of the L. Harrisii bulbs which were packed in cedar sawdust were found to be heated on arrival in New York from Bermuda.

FREDERICK BENTLEY, Tuxedo Park, N. Y., failed the latter part of July.

DUTCH BULBS will be late coming in this season.

M. B. FAXON, of Boston, assigned August 10.

Early Cosmos and Chrysanthemums.

In reply to numerous letters inquiring as to our method of raising early cosmos and chrysanthemums, we give our experience:

Cosmos as a pot plant is a gross feeder, requires large pots, rich compost, sunny exposure, and plenty of water; being naturally brittle, carefully tie and stake the lower branches. In open field we plant cosmos 5 by 6 feet, ours at this time being 6 feet high and covering the ground. This wonderful growth enables us to cut stems any length; large bunches with foliage and buds are of great beauty. Cosmos now ranks next to the chrysanthemum. During the season we ship daily as far as Minnesota. The lasting qualities of this flower make it a great favorite, and it has come to stay.

Early chrysanthemums.—Cuttings from the sand bed are planted in open field early in April; if the season is dry, watering and mulching are necessary, as we must have well grown wood before August; at that time buds appear, if we are to have flowers October 1. Ours show buds as large as peas August 15. Careful disbudding is next in order. If black fleas and bad weather do not interfere we will have creditable flowers of the Chinese varieties October 1. Our local interest in chrysanthemums is not what it ought to be, and were it not for our Northern and Western markets our acreage would be reduced to a fraction. J. L. LOOSE.

Alexandria, Va., August 20.

Correction—Chrysanthemums.

Please correct as follows in the list of new chrysanthemums as published in FLORIST August 20, page 45:

Frank Thomson (not Thompson) (Graham), Flora Hill (Graham).

I have received two letters requesting a correction, which is cheerfully done, one from Mr. Thomas Foulds, late foreman for Mr. Hugh Graham, and the other from Mr. William Graham, Mr. Hugh Graham's son.

It is becoming more and more apparent the necessity of registering new chrysanthemums, both for the purpose of giving credit where it is due and also for chrysanthemum buyers to know where good varieties may be looked for. And last, but by no means least, to avoid the duplication of names. EDWIN LONSDALE.

Heating.

Given a greenhouse with a cold corner, would an open fire place in said corner have any injurious effect on the plants, natural gas being the fuel used? By an open fireplace I mean a grate and chimney such as are used in dwelling houses. M.

EVERYBODY reports chrysanthemum plants as looking well; the fall shows will undoubtedly be larger than ever.

FLORISTS' HAIL ASSOCIATION

SECRETARY'S REPORT.

The amount of glass insured on the first day of August, 1891 was 3,104,583 square feet, of which 1,384,205 square feet was single thick and 1,720 378 square feet was double thick. An extra one-half insurance has been placed upon 18,210 square feet of single thick glass, and 56,251 square feet of double thick glass. An extra whole insurance has been taken upon 155,998 square feet of single thick glass, and 189,835 sq. ft. of double thick glass. The amount received during the year for membership fees was $638.13. The whole amount of advanced assessments received for the year was $960.37. The total amount received during the year for re-insurance of glass broken by hail was $23.98

On the 20th day of September, 1892, the second assessment was levied, 176 members were assessed and all except 17 paid their assessment promptly. Of the 17 whose membership was cancelled seven had either died or retired from business, leaving only ten whose membership was cancelled from causes unknown to the secretary. The total amount received from this assessment was $1,146.24 The amount of the membership fee fund in the hands of the treasurer (after deducting $16.25 which was returned to subscribers to the guarantee fund), is $1,855.84. The total amount of the assessment fund in the hands of the treasurer after paying all losses and expenses for the past year is $1,170.43. The following losses have been paid during the year: To J. J. Schumacher of Sioux Falls, South Dakota, $150 for 3,000 square feet of single thick glass; to S. D. Bradford of Colorado Springs, Colorado, $33.45 for 669 square feet of single thick glass; to B. Jacobs of Canton, Ill., $2.50 for 50 square feet of single thick glass; to Luther Armstrong of Kirkwood, Mo., $27.00 for 540 square feet of single thick glass; to Zeigler Sisters of Junction City, Kan., $5.85 on 117½ square feet of single thick glass; to Margrave & Ward of Hiawatha, Kan., $2.80 for 56 square feet of single thick glass; to Henry Corbett of College Hill, Ohio, $315.30 for 6,506 square feet of single thick glass; to Corbett & Wilson $471.95 for 9,439 square feet of single thick glass; to Herman Bucheler of Oconomowoc, Wis., $81.55 for 1,631 square feet of single thick glass; to Alfred Forder of Cincinnati, Ohio, $86 for 1,720 square feet of single thick glass; to Robert S. Brown & Son of Kansas City, Mo., $13.76 for 250 square feet of single thick and 18 square feet of double thick glass; to J. T. Bartlett of Oconomowoc, Wis., $184.87 for 2,641 square feet of double thick glass; to Mrs. J. E. Patton of Trenton, Mo., $14.40 for 288 square feet of single thick glass; to Herman Schlacter of Winton Place, Ohio, $50.25 for 1,005 square feet of single thick glass, and to E. V. Campbell of St. Cloud, Minn., $5.81 for 116 2 9 square feet of single thick glass.

The percentage of loss for the past year has been one square foot of single thick glass for every 54½ square feet of glass insured, and one square foot of double thick glass for every 647 square feet of glass insured

Hail storms have occurred during the past year at Sioux Falls, South Dakota, Colorado Springs, Colo., Canton, Ill., Westwood, N. J., Nyack, N. Y., Abilene, Kan., St. Louis, Mo., Kirkwood, Mo., Orlando, Fla, Gainesville, Texas, Lake Geneva, Wis, Junction City, Kan., Hiawatha, Kan., Morseley, Mo., Benton, Ill., Kansas City, Mo., Oconomowoc, Wis., Brookfield, Mo., Clyde, Ohio, Winton Place, Ohio, Cincinnati, Ohio, College Hill, Ohio, Hot Springs, South Dakota, Hawthorne, N. J., near Denver, Colo., Audubon county, Iowa, Trenton, Mo., Dillerville, Pa., Cherokee, Iowa, St. Cloud, Minn., and Ardoch, North Dakota. All losses have been promptly paid and satisfactorily adjusted, and the prompt payment of the assessment levied was the final test of the stability of the Florists' Hail Association, and the positive proof that the members were satisfied that the business of the association had been properly conducted by the officers and directors If the success of the association is to be gauged by the extent of the inquiries, the increase of membership will be large during the ensuing year. During the four years and three months of the existence of the association only one assessment has been levied, and of this record I can assure you the officers and directors are justly proud.

JOHN G. ESLER, Secretary.

TREASURER'S REPORT—CONDENSED.

TORONTO, August 19, 1891.

Balance on hand last report, Aug. 1, '90	$1,787 04
Received from new applications	1,583 96
Second assessment	1,146.24
Interest on bonds, &c.	68.00
Total	$4,585 24

CONTRA.

Paid J. G. Esler, Sec'y, salary to June 1st, 1890	$ 100.00
J. G. Esler, comm. on applications to June 1, 1892	8 50
Stationery for Sec'y and Treas. to June 1, 1890	69.25
Expressage on same	1 35
Exchange on local checks	.80
Advertising	45.50
Losses paid	1,433 57

CASH ASSETS.

Lake View $500 5% school bond	$495 00
Chicago 500 4% " "	513.07
Cash on hand and in bank	1,918 20
	$2,926.27
	$4 585.24

DISBURSEMENTS.

1890.		
Aug. 25	J. J. Schumacher, loss	$147 60
	Secretary's salary to June 1, '90	100 00
	J. G. Esler, commissions	8 50
	Hackensack Republican stat'ry.	6 50
Sept. 4	S. D. Bradford, loss	32.91
13	Hackensack Republican stat'ry.	3.25
	Expressage on same	1.05
17	Wilson H. & Co. stationery	4.50
22	B. Jacobs, loss	2.46
24	American Florist adv. (Sec'y and Treas. report)	17.50
Oct. 3	Expressage on stationery	30
	Wilson H. & Co. "	7.00
	" " "	3 50
	" " "	12.25
Nov. 5	Rubber stamp for bank	.75
4	Wilson H. & Co. stationery	2 75
1891.		
Feb. 3	Hackensack Republican stat'ry.	7 00
Apr. 14	L. Armstrong, loss	26 57
	Hackensack Republican stat'ry.	5.00
May 26	Margrave & W. loss	2.75
	Wm. Horlacher, loss	5.78
June 13	H. Corbett, loss	320.10
	Corbett & Wilson, loss	464.40
	H. Bucheler, loss	80.20
15	N. Y. Florists Exchange adv	13.00
20	A. Forder, loss	84.62
23	R. S. Brown & Son, loss	13 55
July 15	American Florist adv.	15.00
	J. T. Bartlett, loss	183.29
	J. E. Patton, loss	14.17
	Exchange on checks deposited	.80
18	H. Schlacter, loss	49.45
25	Hackensack Republican stat'ry.	6.75
31	E. V. Campbell, loss	5.72
	Postage &c. treasurer	10.00
	Total	$1,658.97

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Per 100, $3.25; per 1000, $27.50.
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Now Ready. SEND FOR PRICE LIST.
WISCONSIN FLOWER EXCHANGE,
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—— $2,000 ——
Buys seven greenhouses (8,000 square feet of glass) heated by hot water; good stock and plenty of it. Also residence of five large rooms. This is a bargain. For particulars addresss
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CHEAP WATER LILY SEEDLINGS.
NYMPHÆA ZANZIBARENSIS, the true blue African water lily, fine young plants with from 3 to 5 leaves, at $5 per 100, $35 per 1000, as long as they last. Please state how to ship; enclose money with order. The above is a great bargain, as they are worth four times the money. **F. J. ULBRIGHT**, Florist,
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SITUATION WANTED.—A position as seedsman, traveler, or to start a seed business; 25 years' experience in the wholesale and retail trade. Highest testimonials. Address **T. WEBSTER,**
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No. 15 John Street, NEW YORK,
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DUTCH AND FRENCH Bulbous Roots,
HYACINTHS, TULIPS, DAFFODILS,
LILY OF THE VALLEY PIPS,
Bermuda Easter and other Lilies, Etc.
☞ Descriptive Priced Catalogues FREE.

FORCING BULBS NOW READY.
THE BEST ARE THE CHEAPEST.
A good bulb requires no more space, heat or care than a poor one; our aim is to merit your confidence and trade by supplying only the best. **TRY US.**

	Per 100	Per 1000
WHITE ROMAN HYACINTHS	$2.25	$20.00
PAPER WHITE NARCISSUS, FINE	1.00	8 00
PAPER WHITE NARCISSUS, GRANDIFLORA	1.25	11 00
FREESIA REFRACTA ALBA, CHOICE BULBS	1.00	7 50

25 Bulbs at 100 price; 250 Bulbs at 1000 price.
For Terms of Credit, etc., see our Bulb List, free to all.
BERLIN LILY OF THE VALLEY PIPS, DUTCH HYACINTHS, TULIPS, NARCISSUS, Etc., ready later on. Write for Special estimates on your wants.
OUR FACILITIES ARE UNEXCELLED.
Z. DE FOREST ELY & CO.,
WHOLESALE IMPORTERS OF BULBS,
1301 and 1303 Market Street, PHILADELPHIA, PA.

HERMAN BUDDENBORG,
HILLEGOM, near Haarlem, HOLLAND,
WHOLESALE GROWER OF ALL KINDS OF
DUTCH BULBS AND ROOTS
Informs all intending purchasers that it will pay them to write or his wholesale price list. Special prices will be given to large importers on application. Prime quality at the very lowest prices is guaranteed by
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J. A. De Veer,
154 East 34th St., NEW YORK,
Importer and Dealer in
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G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

	Per 1000
Roman Hyacinths, 13–15 ctm.	$23
	Per 100
Chinese Narcissus, Oct. 1,	$7.50

J. W. ELDERING, Bulb Importer,
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SPECIAL LOW PRICES
—— ON ——
Lilium Harrisii, Longiflorum, Candidum, Roman Hyacinths, Paper White Narcissus, and all other kinds.
DUTCH HYACINTHS,
TULIPS, CROCUS, SPIRÆA, LILY of the VALLEY, AZALEA INDICA, ROSES, ETC., ETC.
Wholesale price list on application to
HULSEBOSCH BROS.,
P. O. Box 3118. NEW YORK CITY

The only Dutch Bulb Growers of whose firm there resides a member in New York, to conduct the business. So that we can be reached always.

LILY OF THE VALLEY.
(November Delivery.)
The true Hamburg and Berlin pips, extra strong, 3 years old, packed in cases of 2000 and 2500; per 1000, $9, per 10,000, $80, free on board cars at New York.
SPECIAL QUOTATIONS ON LARGER QUANTITIES.
CHAS. SCHWAKE,
318 E. 85th ST., NEW YORK.

Germination of Canna Seed.

In preparing canna seed for planting we have a method that we consider much superior to the vise and file.

We take a 3-inch pot with a large drainage hole, cover hole with a piece of wire screen or broken pots, fill three-fourths full of seed, and pour about one-half pint of boiling water over them, and the work is done. Pour the water all on at once, and it runs away before overdoing the matter. If poured slowly it might cook the seed and destroy the germ.

We have practiced this for some time, have never lost any seed, and they germinate at once. The hot water, used as described, breaks the hard shell, but is gone too quickly to injure the germ.

Lincoln, Neb. CHAPIN BROS.

Catalogues Received.

H. Bayersdorfer & Co., Philadelphia, florists' supplies; Anna B. Nichols, Laredo, Texas, cacti; W. J. Hesser, Plattsmouth, Neb., palms and decorative plants; C. H. Allen, Floral Park, N. Y., gladioli and other bulbs; Haage & Schmidt, Erfurt, Germany, bulbs and plants; Danville Nursery & Greenhouse Co., Danville, Va., plants; Selover & Atwood, Geneva, N. Y., nursery stock; Lewis Roesch, Fredonia, N. Y., grape vines; W. C. Beckert, Allegheny, Pa., bulbs; John Lewis Childs, Floral Park, N. Y., bulbs and plants; E. H. Krelage & Son, Haarlem, Holland, Dutch bulbs; W. H. Humfeld, Kansas City, Mo., ventilating apparatus.

A NEW YORK daily reports that farmers in Florida have begun to raise calla roots for market as a food product. It is also reported that this "new vegetable" is to be introduced to the people of the United States through the Department of Agriculture at Washington. When grown where the ground can be flooded at intervals during the growing season the calla is said to be vastly more prolific than the potato in the production of tubers. Calla lily bulbs are a common vegetable in Japanese markets.

IN the report of the excursion participated in by the Florists' Clubs of Washington and Baltimore, which we copied from the Baltimore *Sun* of July 8 into our issue of July 16, the name of the president of the Washington Club was given as MacEvers. Where the reporter got this name is past finding out, for no man of that name belongs to the club and our old friend, Robert Bowdler, is still the chief executive officer of the Washington Club.

MR. JAMES COLE, lately with Messrs. Standish & Co., Ascot, previously with Messrs. Ireland & Thompson, Edinburgh, has been engaged as manager to the well known firm of Messrs. John Laing & Sons, Forest Hill Nurseries, London, England. Mr. Cole was manager some few years ago to Mr. Such, South Amboy, N. J.

THE Salem, Oregon, *Statesman* tells of a hollyhock grown by an amateur in that city that measured fourteen feet and an inch from the ground to the tip of the stalk. When dealing in such large figures they ought to have "thrown in" the inch for good measure.

THE Montreal *Witness* of August 8 tells us that an amateur of that city succeeded in grafting a morning glory upon a sunflower.

75,000 STRONG FIELD GROWN ROSES

Splendid assortment Hybrid Perpetual, Moss and Climbing, best varieties for forcing and outdoor planting. **No better plants grown.**

Full line Clematis, Shrubs, Hardy Plants, Hardy and Forcing Bulbs, Greenhouse Plants and Roses.

Headquarters for {FRUIT and ORNAMENTAL TREES, GRAPE VINES and SMALL FRUITS.

CATALOGUES AND PRICE LIST FOR FALL, READY IN AUGUST, FREE TO ALL.
Correspondence solicited. Personal inspection invited.

37 Years. 700 Acres. 25 Greenhouses.

THE STORRS & HARRISON CO.

PAINESVILLE, Lake Co., OHIO.

Mention American Florist.

10,000 ROSE PLANTS.

Strong healthy stock in fine condition for planting, in 3-in. pots, $8 per 100; in 4-in. $10 per 100.

Perles, Mermets, Niphetos, Watteville, Gontiers, Brides, La France, Jacqs, and American Beauties.

Cut Flowers, Smilax and Adiantum. 25,000 field grown Carnations. Hinze's White, Lamborn, Anna Webb and Portia, $8 per 100. New Scarlet Emily Pierson, $15 per 100. 25,000 Neapolitan Violets, strong clumps, ready in Sept., $8 per 100. **A. N. PIERSON, Cromwell, Conn.**

ROSES. We have 3,000 first class FORCING ROSES, grown from two-eyed cuttings in 3 and 4-inch pots, entirely free of mildew.

LA FRANCE 3-inch pots, $7.00 per 100.
PERLE, BRIDE, MERMET 3-inch pots, $7.00 per 100; 4-inch pots, $10.00 per 100.

SEND FOR CIRCULAR.

J. L. DILLON, - BLOOMSBURG, PA.

WABAN ROSE. Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants for immediate planting, price $20 00 per hundred.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

Mention American Florist.

DRACAENA TERMINALIS,

very fine, 4 and 5-inch pots.

LATANIA BORBONICA,

and many other varieties, in 4, 5 and 6-inch pots.

Prices given on application.

GEO. W. MILLER, 1748 N. Halsted St., **Chicago.**

ROSES. ROSES. ROSES.

We have a few thousand left of the best forcing varieties, good strong stock in 3 and 4-inch pots at $7 and $8 per 100. Also several hundred bouvardia, large plants, in 6, 7, and 8-inch pots, $12, $15, and $20 per 100. Mostly Davidsonii, fine for forcing, all the leading varieties in 2½-inch pots, $4 per 100. Dracaena Indivisa, 2½-in. pots, $8 per 100; 4-in., $12; double white primroses, 3, 4 and 5-in. pots, $10, $15, and $20 per 100. Echeveria, all sizes, very cheap. Smilax, strong, 2½-in. pots, $3 per 100. Over one hundred of the best new and old varieties of chrysanthemums, all sizes and prices. Write

HENRY SMITH,
130 Monroe St., GRAND RAPIDS, MICH.

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ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

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Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Ben Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000.

Carnations.

Hinze's White, Silver Spray, Fred Johnson, Orient, Portia, the Century, Mrs. Cleveland and Grace Wilder.

1st size, $8 00 per 100; $70 00 per 1000; 2d size, $6 00 per 100; $50.00 per 1000.

FRED CREIGHTON, a fine pink, $10.00 per 100.

Violets.

Swanley White, $6.00 per 100; Marie Louise, 1st size, $8.00 per 100; $75 00 per 1000; 2d size, $6 00 per 100, $55 00 per 1000; 3d size, $5.00 per 100; $45 00 per 1000

Our carnations and violets are strong, full grown plants and perfectly healthy, ready for delivery September 15.

SMILAX. Good strong plants, $3.00 per 100; $25.00 per 1,000.

WOOD BROTHERS,
FISHKILL, N. Y.

Mention American Florist.

PALMS.

We have a splendid stock of Kentias in 2½, 4 and 5-inch pots, which we offer at exceptionally low prices. Plants are of our own growing and are strong and stocky. An inspection of stock solicited. 25 plants sold at 100 rates.

	In. pots.	In. high.	Per 100
Kentia Forsteriana.....	2½	—	$ 15.00
" "	4	15	35.00
" "	4	18	50.00
" "	5	24	90.00
" "(heavier)..	5	24	100.00
" "	6	36	200.00
Kentia Balmoreana.....	2½	—	15.00
" "	4	12	35.00
" "	4	15	50.00
" "	5	18	100.00

ROSES.

	Per 100
Waban, from 2½-in. pots, healthy stock	$15.00
Augustine Guinoisseau or White La France strong plants from 2½-in. pots.....	12.00
All the standard bedding roses at	4.00
$40.00 per 1000.	

Send in your list to be priced.

ROBT. SCOTT & SON,

19th & Catherine Sts., PHILADELPHIA, PA.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,

NEW ROCHELLE, N. Y

New and Rare Plants — Hardy Plants.



ORCHIDS PALMS, FERNS.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

Mention American Florist.

FRESH CONSIGNMENT OF

COLUMBIAN ORCHIDS

Just to hand. Cattleya Trianæ Schroederæ, the rare and very fragrant winter bloomer; Cattleya Trianæ, the old favorite, and also many Odontoglossoms, Oncidiums, etc., etc., at greatly reduced prices. Write for price list.

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ORCHIDS.

The finest stock in the **WORLD.** Nearly five acres devoted to their culture.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

100 FOR $25.00.

Orchids.

BRACKENRIDGE & CO.,

Established 1854. **Govanstown, Md.**

Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10.00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII,

DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots strong, 15 to 18 inches $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

COLEUS Verschaffeltii, Golden Bedder, Golden Verschaffeltii, Sunset, from 2½-in. pots, $20 per 1000; $2.50 per 100. From 3-in. pots, $25 per 1000; $3 per 100. Large stock plants, $35 per 1000; $4 per 100. All orders should be accompanied by money, otherwise shipped C. O. D.

JOHN RECK, Bridgeport, Conn.

Mention American Florist.



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BOOK FOR FLORISTS.

— Write for it. —

Canna Mme. Crozy, New Roses, Etc.



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PANSIES.

PANSIES THAT ARE UP. Up and ready to plant when I send them. It is not only the plants that are up, the strain is up as well; up to, and most of my customers say, above any strain in the market. The price is down, considering the quality. Seed as good would cost you about as much per 1000 plants.

Price, free by mail, 100 for 75c; 500, $3; by express, $5 per 1000, with discount on large orders.

TRY THEM. THEY ARE WORTH A TRIAL.

SEND FOR LIST AND SHORT PAPER ON CULTURE.

SMILAX.

Plants have been growing, but the price has not; they are nice and stocky and ready to go right ahead. There is some 15,000 left. Let me have a chance to fill your order and do not delay it too long. Price $1.50 per 100; $12.50 per 1000, cash with the order. Sample for 10 cents.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

PANSIES OF THE BEST STRAINS.

$5 per 1000 by Express; 75 cts. per 100 by Mail. CASH WITH ORDER.

NOTE.—That my Specialties for the coming season are best varieties of

CARNATIONS, COLEUS, GERANIUMS. FIRST-CLASS ROOTED CUTTINGS.

Descriptive Trade List ready in November. Send for it.

ALEX. McBRIDE, - Alplaus, N. Y.

Zirngiebel's GIANT MARKET AND FANCY PANSIES

New crop seed of those superb strains now ready, in trade packets of 1,500 and 600 seeds respectively, at one dollar each.

DENYS ZIRNGIEBEL,

NEEDHAM, MASS.

Large Stock of Dracaena Indivisa.

At following Low Rates: Per 100

From boxes, 1 foot high.....	$ 5.00
" 3-inch pots.....	8 00
" 4 and 5-inch pots.....	$15 00 to 20 00
" 6 and 7-inch pots.....	$30 00 to 45 00
" 10-inch pots.....	$15 00 per doz
Have also 300 good Niphetos, 3-in.....	$6 00 per 100
Cut Smilax all the year round.....	$2.00 per doz.

Poehlmann Bros.,

MORTON GROVE, Cook Co., ILL.

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The Cultivation of Mushrooms.

The following standard works will be sent post free on receipt of price:

MUSHROOM CULTURE.....	Robinson.	$.50
MUSHROOMS—How to Grow Them.	Falconer.	1 35
MUSHROOMS FOR THE MILLION.	16 pages.	Free.

JOHN GARDINER & CO.,

Seed and Bulb Growers, Importers and Dealers,

Philadelphia, Pa., U. S. A.

Even the Flowers advertise,
For all their brilliant hues
Are meant to catch the Insects' eyes
As they fly out to choose.

TO FLORISTS.

GENTS:—My list of small stock is ready, and partly sent out, but I have failed to name many small and large Flowering Shrubs, $3, $5 and $10 per 100. Shall soon issue another.

P. H. FOSTER, Babylon, N. Y.

Pansies. Pansies.

200,000 plants of the Jennings strain ready in September and October, 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies to be A No. 1 in every respect. Seed can yet be had at 50 cts. to $1.00 per packet.

ADDRESS **E. B. JENNINGS, Pansy Grower,**

Box 76. **SOUTHPORT, CONN.**

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
PANSIES.....	$1.00	$ 5 00
SMILAX, 2½ inch pots.....	1.50	12.00
CHRYSANTHEMUMS, 5-inch pots.	8.00	
CARNATIONS, field-grown.....	8.00	
VIOLETS M. Louise, field-grown..	5.00 to 7.00	

Address **J. G. Burrow,**

FISHKILL, N. Y.

EXTRA PANSY SEED.

Mammoth Sunbeam Strain.

I have obtained this grand strain by continued high culture and careful selection; it embraces as choice a collection of the finest varieties as can be procured; flowers extra large, of fine form and of the showiest colors. I receive many compliments from my customers of last season. Every florist should sow of this seed. Per liberal trade pkt., 25c.; 3 pkts. 60c.; 6 pkts $1. **JOHN F. RUPP, Shiremanstown, Pa.**

PANSIES ONLY.

The Greatest Collection ever offered, including all the Latest Novelties. Our Seed is Warranted to be Fresh, Pure and Strictly First-class. Send for new Circular and Price-list to the trade.

ALBERT BENZ, Douglaston, N. Y.



TRY **DREER'S**

GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,

Philadelphia

Chicago.

At the meeting of the Florist Club last Thursday evening, three new members were added to the list. They were Messrs. John Thorpe, W. C. Cook, and J. G. Hancock. The question of judging the floral arrangements at the coming exhibition was brought up, and it was expressed as the sense of the club that the plan of selecting the judges from among the lady buyers of flowers, as done last year, be again employed. The place for holding the fall exhibition has not yet been selected. In the consideration of halls for the purpose the new First Regiment Armory was favorably mentioned, and an effort will be made to secure it.

Mr. C. F. Klunder, formerly of New York, is in the city, with the view, it is said, of opening a floral store here.

Never at this time of the year has good stock been so scarce as it is now. The supply is very limited in all kinds of stock, especially in good colored carnations. The demand for these flowers is quite brisk, but scarcely any can be had. Of white the supply is fairly good.

Roses are improving in quality, although the supply is short. American Beauties and La France still head the list for good summer roses. Brides and Mermets are very much improved. Most of the stock that now appears in the market is of good color and free from mildew, although rather small as yet.

Several growers are beginning to cut Wabans. The flowers are small yet, and the stems short, but very fine in color. This rose will undoubtedly prove a good selling variety the coming winter.

PRIMROSES.

The highest improved strains of Chinese Primroses. Twelve distinct colors.

FLOWERS
very large, all fringed and yellow center; bloom on tall stems thrown well above the foliage.

BRILLIANT
colors. Plants vigorous growth; will come into bloom early; now ready for 3-inch pots.
Price per hundred, single sorts.....$ 2 50
" per thousand, " " 20 00
Double: white and red, per hundred..... 5 00

Address **HENRY S. RUPP & SONS.**
Shiremanstown, Cumb. Co., Pa.

SMILAX.

Several times shaken out, cut back and repotted making them equal to plants grown in much larger pots; these are of good size, strong, well-rooted and compact; besides a great saving in Express charges over plants grown in larger pots.

Send for samples and prices.

F. A. BALLER, BLOOMINGTON, ILL.

SMILAX PLANTS.

Fine plants, $1.50 per 100. In lots of 500 or over, $1.25 per 100.

CANE PLANT STAKES.
$3.00 per 1000. 5 to 6 feet long

F. WALKER & CO.,
644 4th Ave., LOUISVILLE KY.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

PRIMULAS.

	Per 100
Primula Chinensis, pink and white, 2-in fine stock	$ 4 00
Primula obconica, 2-in "	3 00
Primula floribunda, 2-in "	4 00
Begonia rex	$5 00 to 15 00
Carnations, field grown	$5 00 to 8 00
Violets, field grown	5 00
Primula obconica, seed	50c per 1000
Primula floribunda, seed	$1 00 per 1000

I. N. KRAMER & SON, Marion, Iowa.

HYDRANGEA PANICULATA GRANDIFLORA

Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine	$5.00	per 100;	$40.00 per 1000
TWO YEARS, 18x24 inches, fine	6.00	"	50.00 "
TWO YEARS, Extra selected, 2½x3 feet, strong	7.00	"	60.00 "
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00	"	70.00 "

Packed in best manner and delivered to Express or R. R. free of charge. Orders Solicited.

ADDRESS **THE DINGEE & CONARD CO.,**
West Grove, Pa.

TUBEROUS BEGONIAS
A SPECIALTY.

Griffin's Begonia Field of 20,000 Singles and Doubles are in full bloom. The finest strain in the world. Come and see them and be convinced.

Thomas Griffin,

"OASIS" NURSERY. WESTBURY STATION, LONG ISLAND.

25,000 **25,000**

FIELD GROWN CARNATIONS.

Extra fine stock, best winter blooming variety. Send for Price List.

20,000 Smilax Plants, strong, out of 2 inch pots, $12.00 per thousand $1.50 per hundred. Cash with order.

FRED. SCHNEIDER, Wholesale Florist,
ATTICA, Wyoming County, N. Y.

FIELD GROWN CARNATIONS

Of over forty leading varieties. Send for Price list.

GEO. HANCOCK, Grand Haven, Mich.

12,000—CARNATIONS—12,000

Field grown, and extra fine.

Mrs. Fisher, Grace Wilder, Silver Spray.
$6 00 per 100. $6.00 per 100.
Satisfaction guaranteed.

GEO. E. BUXTON, Nashua, N. H.

CARNATIONS. An ext a fine lot of large healthy clumps of **Tidal Wave, Portia, Anna Webb, Silver Spray,** etc. Prices low. H. L. CAMERON, Florist
North Cambridge, Mass

LIL. HARRISII,

True stock in fine condition

5–7 inch.....per 100, $4.50; per 1000, $38.00
7–9 inch.....per 100, $7.00; per 1000, $60.00

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO.

JAPANESE PLANTS

Trees, Shrubs, Bulbs, Seeds, Etc.

SEND IN YOUR ORDERS NOW, for

Lilium Auratum, Rubrum, Longiflorum, Etc.
Cycas Revoluta at **greatly reduced prices.**
Camellias in all colors, **MAGNOLIAS, TREE PAEONIES, MAPLES, Etc.**

Give us a trial, we can supply you with all Plants and Seeds, and can pack safely to any part of the world.

F. GONZALEZ & CO.,
303 to 312 Wayne St. & Crescent Ave.,
SAN FRANCISCO, CAL.

CARNATIONS.

FIELD GROWN plants ready in September and October; leading varieties. Prices per circular
VIOLETS—Marie Louise and Swanley White. Young clumps for winter forcing $5.00 per 100.
Smilax—Strong young plants from 3-inch pots, $2.50 per 100.
ALYSSUM—Double for winter bloom, from 3-inch pots, $4.00 per 100. Send for circular.

W. R. SHELMIRE, Avondale, Chester Co., Pa.
Mention American Florist

SURPLUS CARNATION PLANTS

(Field Grown.)

Leading varieties; price $6.00 and $8.00 per 100.

PAUL F. LAU & CO.,
RIVER GROVE, ILL.

CARNATIONS and BOUVARDIAS

for fall planting, $7 to $8 per 100.
Strong, healthy stock PRIMROSES, $4 per 100, 2¾-inch pots.
C. MERMET and THE BRIDE, $5 per 100, 3 and 3½-inch pots.

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A Source of Errors in Nomenclature.

There is a good deal of talk about nomenclature and the intentional changing of the names of plants. I have an idea that I know how some of it occurs. It is through the poor and incorrect writing on plant labels. To prove my theory, I send you half a dozen chrysanthemum labels which I received a few days ago. If you can decipher them without the catalogue of the firm from whom I received them you are smarter than I am.

Oberlin, O. A. R. CONGDON.

[The labels sent were pretty tough. We managed to decipher a few of them—well-known sorts, the names of which are so well known that half the name suggests the rest—but without any knowledge of what the name ought to be we doubt if any living man could have made them out. Certainly every care should be exercised to have the names on labels legibly written. We believe that many of the larger growers use printed labels and this should be done whenever practicable.—ED.]

Mushrooms in a Hurry.

It will be of interest to many lovers of good living to know that an enterprising man uptown has hit upon a plan by means of which anyone can provide himself with a dish of fine, fresh mushrooms at a moment's notice. Those who are accustomed to buying beefsteak garnished with mushrooms freshly gathered from cans at high priced restaurants will thus be enabled to enjoy the esculent morsels within an hour after they have been picked. The ingenious up towner, recognizing the fact that mushrooms lose their original flavor when canned, furnishes a long, narrow box with rich loam and in the center inserts a brick of mushroom spawn. The box is then placed in a cool spot in the cellar, and in twenty-four hours a large crop is ready for picking. A box of this sort filled with spawn, guaranteed to bear fruit for two years, yielding a crop of over 400 fine mushrooms daily, can be bought for $5. The inventor expects to make a permanent industry of mushroom raising in a year or so.

The above clipping is from the Philadelphia *Record*. Philadelphians have been called slow, but that must now be retracted, at least with regard to mushroom growing. Messrs. Robinson's and Falconer's works on mushroom culture would appear to be a long way behind, according to the above.

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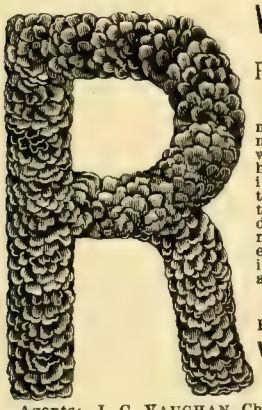
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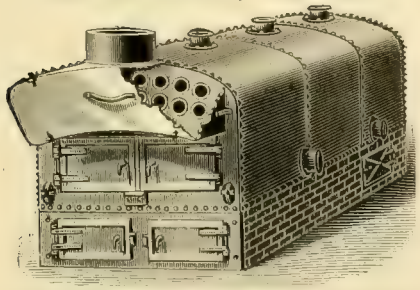
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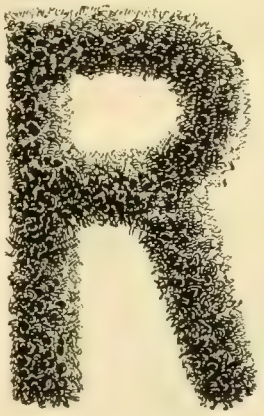
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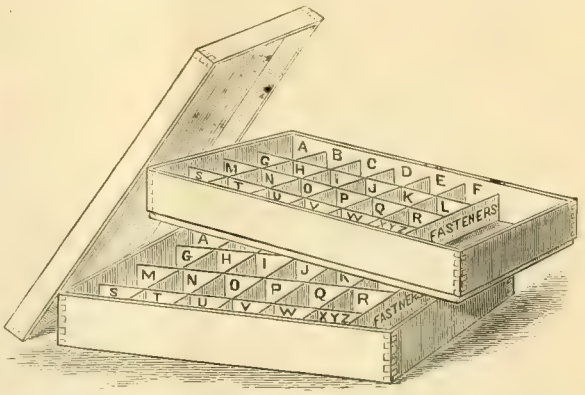
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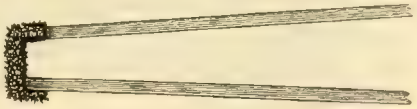


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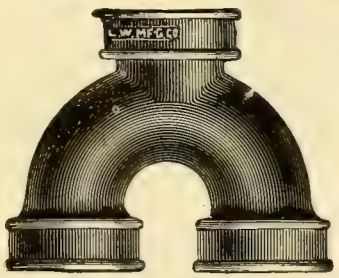


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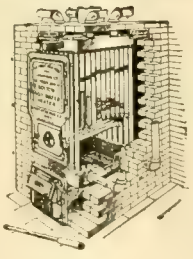
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Buffalo.

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Still another: D. Wood Brant & Co., "druggists, florists and confectioners," all under one roof and starting in at 639 Main street.

All who were at the convention came back well pleased. We didn't expect to win the cup. But look out for the Buffalos' bellow if we don't bring it home with us next year.

Steady rain has made all garden flowers unusually plenty and of high quality. Asters are grand, but go begging for customers.

The second base ball game doesn't materialize. The boys generally have had a fill of vacations and every one has returned to active work and business.

Mrs. C. Tyrrell, the lady florist of that western New York hamlet of growers, Corfu, who has been notably successful with carnations, paid us a visit on Saturday.

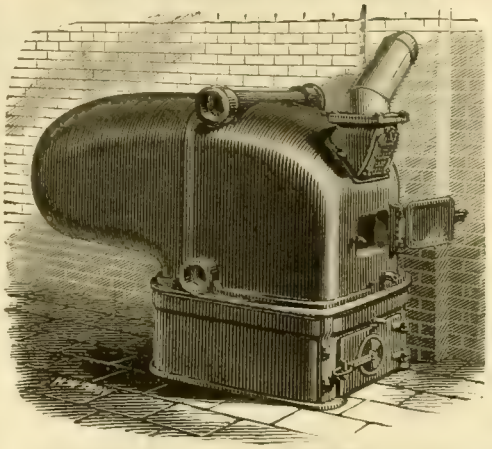
James Galvin, formerly of Newport, R. I., has taken a store position in Cincinnati with J. A. Peterson. L. B. D.

Profitable Roses.

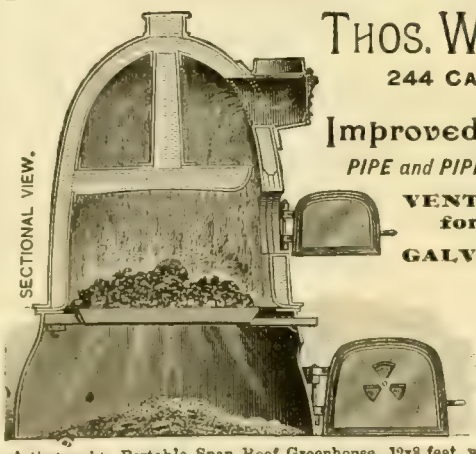
Mr. F. R. Pierson, of Tarrytown, N. Y., reports the following as the most profitable roses grown by him the past season, in the order named: Souvenir de Wootton, Madame de Watteville, American Beauty.

Copies of the photograph of the S. A. F. in a group at Toronto, the same from which the full page plate in this issue is made, may be had from Mr. J. H. Dunlop, 1 McKenzie Ave., Toronto, Ont., at $1 each.

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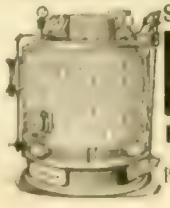
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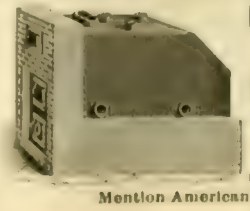


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THE AMERICAN FLORIST



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SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

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FLORISTS' PROTECTIVE ASSOCIATION.

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AMERICAN CHRYSANTHEMUM SOCIETY.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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WORLD'S FAIR matters are moving along briskly now. Mr. Thorpe has issued a call for a meeting at Chicago the latter part of this week, of the advisory committee of the S. A. F. appointed at the Toronto convention, to confer with him as to various details connected with the work of the division over which he presides. The exposition committee on grounds and buildings meets on Friday, and the S. A. F. committee will appear before this body and urge the absolute necessity for more outdoor space, that at present allotted being absurdly inadequate.

Boston.

MASS. HORT. SOCIETY.

The annual exhibition of plants and flowers was held at Horticultural Hall on September 1, 2, 3, and 4. This exhibition formerly occurred later in the season, and included fruits and vegetables as well as plants and flowers. But the halls were found to be too small to continue this system if anything like a representative exhibition in either department was to be accommodated.

Another drawback to the old plan was the feeling of uncertainty regarding the weather, with exhibitors having to transport large and valuable stove and greenhouse plants. So the show has been divided, the plant and flower exhibition coming as above and the fruits and vegetables being scheduled for September 15, 16, and 17.

As it proved, the two halls were none too large for the extensive contributions and when everything was in position there was not a square foot of unoccupied space. The unusual demand upon the stock of vases and bottles caused by the very lively competition for the special premiums offered by Peter Henderson & Co., Parker & Wood, and J. C. Vaughan for 100 vases of annuals, 100 vases of asters and 100 vases of dahlias respectively, taxed the resources of the society to the utmost, and it was with difficulty that all were finally accommodated.

The stage in the lower hall presented a beautiful appearance, its whole length in front filled with a most interesting display in vases and dishes, of hardy variegated and ornamental foliage, and backed with a rich group of specimen conifers comprising over fifty species and varieties from the nurseries of W. C. Strong. The vestibules and the front part of the upper hall contained a similar collection of conifers from Temple & Beard, which included many rare kinds and valuable dwarf-growing specimens.

The platform in the upper hall and a section of the floor in front was occupied by a large group of stove and greenhouse plants from Joseph H. White, and both sides of the hall were flanked with similar groups from Frank Becker, N. T. Kidder, G. A. Nickerson, Dr. C. G. Weld, E. W. Gilmore and others.

To Joseph H. White were awarded first premiums for specimen Cycas revoluta and specimen ornamental leaved plant (Coprosma Baueri var.), also second for ornamental leaved plant (Alocasia Macrorhiza var.) and first for specimen adiantum. The adiantums were very fine, particularly a large pot of A. fragrantissima.

G. A. Nickerson's group contained many finely-grown specimens. He received first prizes for six greenhouse and stove plants, six large crotons, and six crotons in 6-inch pots. The crotons were possibly not quite equal in coloring to those shown by this exhibitor on former occasions.

N. T. Kidder, Wm. Martin, gardener, won first prizes for caladiums, ferns, dracænas, lycopods, and ornamental leaved plants, besides quite a number of second premiums. A plant of Croton Hammondii, also the ferns and lycopods in this collection were especially fine. The displays from Dr. C. G. Weld, E. W. Gilmore and Frank Becker comprised a large assortment of ferns, lycopods, dracænas, crotons, etc., to which were awarded a number of premiums.

Frank Becker's araucarias were particularly noticeable for their perfect symmetry, and all his plants were clean and healthy.

E. W. Gilmore received first prize for six orchids. Among the most notable of Mr. Gilmore's plants were a number of pots of Veitch's new hybrid streptocarpus from seed sown last spring, which attracted much attention.

There were some fine specimens of nephrolepis from Clyde Street Greenhouses, and a collection of aquatics from Benj. Grey, comprising twelve new and rare kinds, also from Mr. Grey a group of Canna Star of '91, and three fine cattleyas, one of which was the beautiful white variety of C. Gaskelliana.

To George McWilliam, gardener to Mrs. J. Lasell, was awarded a silver medal for a plant of Alocasia Sanderiana. This plant was the finest thing in the hall, and was an exhibition in itself. Mr. Storer secured a good photograph of it, which will appear later in the AMERICAN FLORIST.

Among the specially notable exhibits was a group of forty new plants never before shown here from Pitcher & Manda, of which the following is a complete list: Cypripedium Josephianum (new hybrid), Druryii x Javanico superbiens, (new hybrid), Spicerianum x Crossianum, Ashburtoniæ majus, C. magniflorum, C. Binoti, Odontoglossum Bictonense album var., Alocasia Chaubieni, A. Count de Kerchove, A. Pucciana, A. Reginæ, Dieffenbachia amoena, D. Memorii Corsi, D. Leopoldii, Pandanus Coricosus, P. Liasianus, P. amaryllidæfolius, Phœnix Roblenii, Philodendron Sodervi, Asparagus commoriensis, A. medius, Areca nobilis, Sonerila aurentalis punctata, Guilulma speciosa, Calamus Noluteamus, Dichorsandra Siebersii, Schismatoglottis pulchra, Dracæna Neo-Caledonica, D. Alsace-Lorraine, D. argentea striata, D. Cantrellii, Aglasnema pictum, Hophlophytum robustum var., Ananassa cochinchinensis, Canistrum Sallieri, Bromelia macrodontes, Pteris Victoriæ, Aspidium amabile, Pteris Wallichiana, Adiantum cuneatum variegatum.

For Pteris Victoriæ was awarded a silver medal and to Alocasia Chaubieni and Dracæna argentea striata, first class certificates of merit.

The most attractive part of the exhibition to the public appeared to be the two enormous tanks of tropical water lilies from Mrs. J. Simpkins of Yarmouthport. These contained a collection of nymphæas, nelumbiums and other aquatic plants, among the best being Nymphæa marliacea chromatella and a fine dark form of N. zanzibarensis. The size of the nymphæa blooms was remarkable, many of them being from ten to twelve inches in diameter. The great Victoria regia was represented by a leaf six feet across and two splendid blooms.

There was also in the lower hall an attractive display of a similar character from J. S. Cowles, gardener to Fairman Rogers, Esq.

It is to be hoped that at some future time the society will provide some more artistic and natural arrangement for aquatic displays than these ungainly square tanks and big tubs. The public interest in aquatic plants is developing fast and an exhibition of them properly displayed with fitting surroundings would be sure to create a sensation.

The display of cut flowers was very extensive. For the silver plate prizes offered by Parker & Wood for one hundred vases of large flowering asters there were seven entries, making seven hundred vases or twenty-one hundred flowers in this class alone. The first prize was awarded to J. H. White and second to R. T. Lombard.

The premiums offered by J. C. Vaughan for fifty vases of large flowering and fifty vases of Lilliputian dahlias drew out some very fine blossoms. W. C. Winter won the former and J. F. Marble the latter. Mr. Marble's lilliputians were equal to the best ever shown here. Rose Buxton took the second Henderson prize for one hundred vases of annuals. The first premium in this class was not awarded.

The society's numerous regular prizes for dahlias were won by W. C. Winter, John Parker and E. Sheppard; for asters in different classes by F. W. Vanderbilt, Mary T. Goddard, J. H. White, Wm. Patterson and others; for Lilium lancifolium by T. C. Thurlow and F. W. Vanderbilt; for tropæolums by Dr. C. G. Weld; for marigolds by F. S. Davis; for flowering cannas by R. and J. Farquhar, J. S. Cowles and Wm. Patterson; for tuberous begonias by W. C. Winter and Seth Rich; for zinnias by Dr. C. G. Weld, F. S. Davis and Mrs. E. M. Gill; for native plants by Mrs. P. D. Richards and I. E. Coburn; and for herbaceous plants by J. W. Manning, Jr., Wm. J. Martin and Temple & Beard.

These three latter exhibitors all deserve special praise for their extensive displays of hardy herbaceous plants throughout the season. Being correctly and legibly named they have been among the most interesting and instructive features of all this season's exhibitions.

From the Harvard Botanic Garden came a large exhibit of hardy herbaceous plants comprising one hundred and ten kinds and of annuals comprising fifty kinds, all named. Among the newer things in this exhibit were Stachys coccinea and the white form of Lobelia syphilitica.

Jackson Dawson showed a collection of fruiting shrubs and heaths, W. C. Strong blooms of Lilium Wallichianum superbum, J. Breck & Sons, Hetherset hybrid gloxinias, and J. Cowles two large vases of Chrysanthemum "Golden Fleece." This chrysanthemum is perfectly hardy at Newport and Mr. Cowles has a large border of it in full bloom at the present time. It is a pompon, bright yellow in color and very floriferous. Its earliness ought to make it an indispensable variety.

The special premiums offered by the Gardeners' and Florists' Club of Boston for mantel decorations did not excite the lively competition which was hoped for. The Boston store florists are something like the famous heathen Chinee, "peculiar." They first announced that they would not compete if David Allan, the winner of the premium last year, was coming in again, an acknowledgement of Davy's formidable abilities, which gratified that gentleman greatly and which he promptly acknowledged by gracefully withdrawing from the lists. To further propitiate these very particular gentlemen it was arranged that the judges for this special department would be selected from out of town to avoid any possible accusations of partiality. But all these inducements were in vain and there were but two competitors, Bowditch & Long and Mrs. E. M. Gill, who won first and second prizes respectively. A photograph of Bowditch & Long's decoration, which was awarded first prize, will appear in a subsequent number of the AMERICAN FLORIST.

The weather during the exhibition was very propitious and the attendance was large. Not many visitors of note came from a distance, the only notable strangers present being Mr. W. A. Manda of Short Hills, N. J., who always comes, and the several gentlemen comprising the Newport contingent. A number of the latter, including Gardiner, Cowles and Gray, piloted by Mr. Flynn of Newton, went to the public garden to view the planting. While there they took a sail in one of the swan boats on the pond, which resulted in a miniature shipwreck on account of an accident to the rudder. But they were heroically rescued by another "gondola" which put out from the shore and towed them safely to dry land, where their friends congratulated them upon their very fortunate escape.

WM. J. STEWART.

Mr. Thorpe Takes Charge.

Last Thursday afternoon the appointment of Mr. John Thorpe as Chief of the Division of Floriculture of the World's Columbian Exposition at Chicago, was formally confirmed by both the bodies which pass upon the appointments of the Director-General, and he then took possession of his office, room 503 in the Rand McNally Building, World's Fair headquarters.

It was felt that the occasion was one that called for some expression of gratification on the part of florists generally, and the officers of the Chicago Florists' Club arranged for a reception at Mr. Thorpe's office, and even with the very limited notice it was possible to give, the room was a bower of flowers sent in by friends and admirers of the new Chief. "The right man in the right place," was the sentiment universally expressed.

A huge basket of roses, in which were hidden three bottles of champagne, came from the Florists' Club of Philadelphia; an elegant basket of orchids came from Pitcher & Manda, Short Hills, N. J., the flowers being arranged after arrival here by Mr. C. F. Klunder, now in the city; a handsome collection of loose orchids was sent by Mr. F. T. McFadden, Cincinnati; baskets of roses by Mr. M. A. Hunt, Terre Haute, Ind., and Mr. E. G. Hill, Richmond, Ind.; L. L. May & Co., St. Paul, sent a large bunch of loose roses; from Mr. Anthony Wiegand and wife, Indianapolis, came a large floral horseshoe; from D. B. Long, Buffalo, a floral tablet bearing the inscription, "Comme il faut"; from H. W. Buckbee, Rockford, Ill., a fine collection of asters; from G. J. Braun, Denver, bouquet of roses. The local florists were represented by a large basket of American Beauty roses from the Chicago Florists' Club, a basket of Duchess of Albany roses from Mr. P. J. Hauswirth, a basket of roses from Mr. F. F. Benthey, a bouquet of roses from Mr. C. F. Klunder, a basket of roses from Mr. C. H. Fisk, a basket of roses and gladioli from Mr. Joseph Curran, a basket of roses from Mr. F. Kennicott, a lot of cut roses from Mr. E. J. Harms, a bunch of roses from Mr. Wm. A. Hanft, a vase of Celosia cristata from Mr. John Lane, and a lot of gladioli from Mr. M. Olsen.

When these were all placed in position on tables, chairs and desks, the room appeared like a good sized section of a flower show, and the people flocked in from all over the great building to see the flowers.

Mr. Thorpe was visibly pleased by the spontaneous exhibition of pleasure at his taking the Chiefship of the Division and accepted congratulations from the callers in his usual pleasant, kindly way.

The department is at last organized, its machinery has begun to move, and under the skillful guiding hand of John Thorpe we may rest assured that Floriculture will be represented at the great exposition in 1893 as it has never before been represented at any previous exposition either at home or abroad. And that he will receive the hearty co-operation and support of every florist in America—and thousands from abroad as well—goes without saying.

Mr. Thorpe has promised to sit for a photograph some time this week, and we hope to be able to present a first-class photo-process portrait in next week's issue.

John M Samuels.

We present herewith an excellent portrait of Mr. John M. Samuels, Chief of the Bureau of Horticulture of the World's Columbian exposition.

Mr. Samuels was born in eastern Kentucky in 1848 and is consequently 43 years of age. In 1852 his father removed to western Kentucky where he engaged in the nursery business which he still conducts, and there the subject of this sketch received his education and assisted his father in his business until he reached his majority. In 1869, when 21 years of age, he established the Louisiana Nurseries at Shreveport, La., which are still in operation. He remained there till 1874 when he returned to Kentucky and secured a half interest in the Mississippi Valley Nurseries, with his father, at Clinton, which interest he still retains. He also invested in land in the states of Mississippi, Tennessee and Florida, upon which he has established orchards of fruits suited to the locality. He cultivated small fruits also, and at one time had a total of 160 acres of strawberries. He has been engaged in horticultural pursuits all his life, mainly in the growing of fruits and nursery stock—both deciduous and citrus fruits, and dealing in same, and in the course of this work has visited every state and territory of the Union with but two exceptions. He has also visited the principal horticultural centers of Europe, and has had opportunity of becoming familiar with the details of nearly every branch of horticulture both at home and abroad.

He was a large exhibitor at the New Orleans World's Exposition, and was awarded 35 premiums and five gold and silver medals.



JOHN M. SAMUELS

Under his leadership we may hope to see the horticultural department at the fair made what it ought to be, a representative exhibit of horticulture as it exists to-day—with every detail given the prominence due it to make a perfect picture of the whole.

Mr. Samuels has assured us that he fully realizes the importance of the Division of Floriculture as a department of his Bureau, and that the Chief of that Division will have his hearty co-operation and warm support in his efforts to give floriculture the prominence it merits. That the Division will be under the direction of Mr. John Thorpe is a sufficient guaranty that nothing that would contribute to its success will be left undone if he be given proper opportunity.

Store Trade.

BY WM. H. LONG, BOSTON, MASS.

[*Read before the Toronto Convention of the Society of American Florists.*]

As in most business enterprises the best results have been achieved through co-operation, there is no room for doubting the benefits to be derived by the votaries of fair Flora in the pursuit of the same course. Since the organization of the Society of American Florists much has been accomplished in the way of healing of differences that existed and would still exist in the trade were it not for the breaking down of the barrier of jealousy that confronted the interest of many who now see a clearer way to success. The manufacturer, the jobber and the trader profit by a close intercourse and understanding regarding their business relations, and there is no reason why the grower, the consignee and the retail florist should not be equally successful through the system of co-operation.

An experience of a quarter of a century has furnished me with material sufficient to draw on and acquaint my younger friends with a brief survey of the retail flower trade during that period.

There are many present who are perhaps not aware of the fact that twenty years ago the great city of New York depended on the city of Boston for its supply of long-stemmed roses, no flower being cut in the neighborhood of the former place with stems more than two inches in length. What changes since then! No place in the country with a population of 5,000 is without its florist. While it is true we have made such wondrous strides in the development of our art, it is equally true that we have allowed our opportunities for pecuniary profit to be materially abridged. When the retail flower trade received its first impetus from 1865 to 1870 flowers were not plenty, but the retailer had an equal chance with his competitor. With much regret it must be admitted that such is not the case to-day, for while the supply has increased one hundred fold, we find an unwarranted discrimination on the part of a few commission men who supply their more fortunate customers with the best, and the less extensive purchaser—even though prompt in his payments—with what may be left. As most of the desirable stock is consigned to wholesalers in large cities, from whom the shop keeper must purchase or go without material for his business, the unfortunate position of the man who purchases lightly must be apparent. Fortunately however the bulk of consigned goods are in the hands of honest and intelligent men, as were they all as those referred to, it would be simply a matter of the rich being made richer and the poor poorer.

While on this subject your attention must be called to another matter of serious importance, one that threatens the retail florist, store trade especially, with sad consequences. I refer to the unhappy method adopted by some growers and wholesalers of furnishing street Arabs with flowers at prices so ruinously low as to enable them to dispose of their goods for one-half and not infrequently one-quarter the price demanded of the retailer. When the nuisance was less prevalent than at present the shopkeeper could impress some customers who inquired "how the boys on the street could se'l for so much less than the store," with the belief that the flowers were stale. Within the past few years we find a different state of affairs, for the very people who a short time ago refused to patronize these pests, are now using their goods and find they are as fresh as those purchased in the stores.

Were these venders required to pay the same prices that the retailer is charged, there would be no cause for complaint, as every living creature is allowed the undeniable right to earn an honest existence, but when the retailer is forced to pay from two to four times as much as the street peddler, he must as a consequence suffer somewhat in his cut flower sales. But the great trouble is not alone the dispensing to them, but by them. There is no doubt that an article may be made popular by being brought in contact with a community, but when that contact is made through the agency of the most depraved and vicious imps to be found in the slums of large cities and who infect the fashionable thoroughfares with their forbidding presence and thrusting bunches of flowers in the faces of ladies, it is time the florist looked well to his laurels, or our calling must soon be brought into contempt.

The question might be asked, "what shall we do with our overstock?" That question I am not prepared to answer just now, but through the agency of this very association means might be adopted for the solution of the abstruse problem. Suffice it to say that all stock in an open market not purchased at a fixed price had better be destroyed than sacrificed to street venders, who stop the sales that would otherwise go to a reputable shopkeeper, the depletion of whose stock signifies the heavier purchasing from the wholesaler at profitable rates, and the latter's opportunity for making better returns to his consignor than would result from the sacrifice offerings of the street vender.

As it is quite well to leave well enough alone, I will not take your time by repeating the pleasant memories in connection with store trade or the tremendous strides made in the advancement of our profession, as they are well understood, but will confine myself to weak spots in the hope that errors may be rectified and the toiler adequately compensated for his labor. By a close observation I have discovered that a majority of the young men and boys in the employ of retail florists are far below the standard in primary education, not being able to convey their thoughts to paper in the simple matter of taking an order from a customer. Mistakes of a serious nature are often the result of this misfortune. Frequently in an effort to decipher these hieroglyphs we find ourselves booked for an order quite at variance with the purchaser's intention. This is to be deplored, as most of the young people referred to are bright, intelligent lads, quite up to the times, many possessing the material for good business men, if only properly cared for. But how are these boys, most of whom through circumstances have been forced to work while at a tender age, to secure the prize they deserve in the way of but a little education, if they are kept at their posts till very late night after night? Without doubt man's avarice is his greatest curse. How many have been brought low through their love of gain, sacrificing health, pleasure and happiness for an extra dollar he cannot use, but which must be left to others to squander. In the hope of making one sale more for the day the avaricious man keeps his place open a simple hour later than his neighbor; his competitor discovers this and remains at business still later, until in the course of time, as is noticeable in New York, the greater number of stores are kept open till very late at night. The folly of this measure must be apparent to all thinking men. No doubt the late hour shopkeeper, if asked why he keeps his place of business open so long, will inform you that he is justified in attending to customers as long as they come in. To this I will answer that during the past twenty-five years I have had occasion from time to time to remain at my place of business all night, preparing orders for the following day, and for every hour of the night I have had customers. Reasoning from this standpoint the tradesman to whom I refer is justified in keeping his place of business open all and every night. Until within a few years the dry goods man would have considered himself on the brink of financial ruin if told he should close his place at six o'clock in the evening, but when the clerks organized and inaugurated the early closing movement the merchant discovered that he could do as much business as formerly in fewer hours and the only loss incurred fell on the gas monopoly, who were no longer required to furnish their long bills for gas light.

As the dry goods man found he could do as well in fewer hours, so can the retail florist. I have yet to be convinced that the flower trade in any part of this country cannot be finished before seven o'clock every evening and his store closed on Sunday.

If an employer would but for a moment consider the situation and give his boys a chance to take advantage of the opportunity afforded by our night schools in securing an education, he would not only benefit himself, but the boy he expects in time to take the reins of his business and manage successfully the affairs of a trade he has worked hard to establish and would no doubt be a pleasure for him to see perpetuated.



The Chrysanthemum Bug.

I thought it might interest your correspondent, Aug. S. S., page 58, and perhaps others, to know that in the combat with the chrysanthemum bug in this district, which is infested more than any other that I know of, the growers after having tried in vain every suggested remedy, have retired from the fight, carrying their plants in with them. Some private collections are fortified between mosquito netting, and those that were protected in this way early in the season are doing admirably.

These pests commence their ravages in June, or before, when large numbers visit the patch and are very busy. What they do there, I have not seen clearly explained, but after two years' careful observation, I find that, 1st, they puncture the young growth, 2nd, that they do not feed on the juices, as the plant does not show any ill effects for some time, and on crushing the insect no difference either in quantity or color of matter is apparent, at the beginning or end of a visit. 3rd, that in a few weeks the plants begin to suffer visibly, long wounds—from the point several inches down in some cases—appear on the young shoots, and the whole plant seems blasted. 4th, in these wounds may be found numbers of very small insects, at first something like yellow thrip, then like very lively greenfly, and later, showing unmistakably what they are.

From all this I gather that the business of the perfect fly is not eating, but egg laying, and from that time the plant is practically ruined; that not eating, they can't very well be poisoned, and being too nimble to be caught, or sprayed on, the only alternative left is to keep them away by some mechanical means.

We grow our plants entirely in pots, in light airy houses, which can be shut up and fumigated upon any appearance of the bug, and that is a very rare occurrence indoors. We are not altogether sorry that the bug came along, as it has driven us to grow our chrysanthemums in this way, for we can get far cleaner and more saleable plants, than by the old method of planting out doors and lifting and potting. P.

Brookline, Mass.

In answer to the inquiry of "Aug. S. S." in No. 168 of the FLORIST as to how to get rid of the chrysanthemum bug, he will find the following a sure and effective remedy: Take 4 pounds of tobacco stems to a pail of soft water, boil it for about one hour, let it cool and strain it through a piece of cotton. If the plants are in pots turn them upside down and dip them into it, or if they are planted out syringe the affected plants with the liquid. One dose will be found enough in ordinary cases. One pail full will clean 500 plants. H. T.

Another Illustration with a Moral.

We present in this issue an illustration that tells more plainly than any written argument why some growers get good prices for their carnations and others but very moderate prices, and also why some growers' stock is sold out clean and that of others is not—when there is more than a full stock in the market. With the present demand for long stem flowers the bunch at the right will find a quick sale over the counter at say 50 cents a dozen, while the bunch at the left will go begging for a customer at half the price readily paid for the others.

Of course the man who cuts the long stems should receive more for his flowers, and he does. But even when the same price is paid, isn't it better to cut long stems and some few buds, than to cut a few more flowers and then have a large share of them go onto the dump heap? To a man up a tree the plan that brings in the most dollars appears to be the most profitable one, regardless of how many flowers it takes to do it. If fewer flowers of better quality will bring in the most money—and that is certainly the way things are going now—then that plan is the best one to pursue. To any skeptics we would recommend a comparative trial. Cut real long stemmed flowers off from half your place, pursue the old plan with the balance, keep your returns separate and size up the results. But pack carefully. Remember that the bunches of very long stem flowers are heavier than the others and they are more liable to be crushed if piled too deep. Never forget that it is the condition in which the flowers reach the buyer that tells, and spare no effort to *preserve* the good quality when once secured.

Aquatics in the West.

The ponds of aquatics in the various Chicago parks have become apparently one of the greatest attractions to visitors and where these beautiful water plants have not yet been tried and room is available, a mistake will be made if they are not introduced. And any florist who has grounds of any extent should not fail to have a pond of these beauties as a summer attraction to those who visit his place.

As most of the cultural directions have so far been given by growers in the east, and as western growers might fear that conditions may vary to such an extent as to make these directions in a measure unreliable for them, we have secured from Superintendent Pettigrew, of Lincoln Park, the following details from his own experience with aquatics at this park.

There are here two ponds, of which one is heated by steam pipes from a power house located near by, and the other is unheated. And it is certainly true that all the tender sorts do vastly better in the heated pond but the unheated pond is no less beautiful in other respects.

Presuming that most of the readers of the FLORIST who might wish to have a pond of aquatic plants would wish to have one in which mainly hardy sorts could be grown, we asked Mr. Pettigrew to give us a list of his strictly hardy sorts first, and here is the list:

Nymphæa marliacea, N. m. rosea, N. m. albida, N. m. carnea, N. m. chromatella, N. alba, N. alba candidissima, N. odorata, N. o. minor, N. o. rosea, N. o. exquisita, N. tuberosa, N. pygmæa. This concludes the list of hardy nymphæas. But all the nelumbiums are hardy, and there are a lot of pretty subjects that can be added to the collection,



ANOTHER ILLUSTRATION WITH A MORAL.

many of them natives, to be used either in the pond or on its margins, that should not be omitted. These are Limnanthemum nymphæoides, Pontederia cordata, Nuphar advena, Saggitaria variabilis, S. v. fl. pl., Caltha palustris, Typha latifolia, (the "cat's-tail"), Zizania aquatica (rice grass), Scirpus Tabernæmontani zebrina (the bullrush), and other forms of same, the potamogeton (pond weed), and for the margin only, Sarracenias Drummondii, rubra, purpurea, and psittacina.

Nymphæa flava (yellow) a native of Florida, has been carried safely through the winter at Lincoln Park without protection, but it is not reliably hardy north of the Ohio river.

In addition to the list of hardy sorts named above there should be added to any pond a few of the following tender ones in order to give a pleasing variety in color, blue, for instance, not appearing in any of the hardy kinds. This color is found in the zanzibarensis group of nymphæas, including N. zanzibarensis, N. z. azurea and N. z. rosea. Then there are Limnocharis Humboldtii (yellow), L. indicum (white), Eichhornia crassipes major (the so-called water orchid or water hyacinth), Saggitaria montevidensis (a very large growing form), and Papyrus antiquorum (the paper reed), Aponogeton distachyon, and Trapa bicornis.

Now we must add some of the night bloomers. These are all tender, but are well worth some extra trouble. They open in the evening, and if the day following be cloudy they may remain open till along in the afternoon, but even if the following day be bright they will remain open until 10 or 11 o'clock in the morning. These are Nymphæas dentata, Devoniensis, and rubra.

Mr. Pettigrew believes that two feet is about the best depth for a pond; the nearer you bring the roots to the sun and light the better the plants will grow and bloom. For a pond in which hardy sorts alone are to be grown possibly a little greater depth might be desirable to keep the roots well below the ice, but for a pond in which many of the tender sorts are to be placed and taken out again in the fall the named depth is about right.

The tender aquatics may all be readily carried over winter in tubs of water in the greenhouse. A single tub of eichhornias will give you stock enough sufficient for a large pond, as they spread rapidly. The tubs may be kept under the greenhouse bench if there is a good light there, but they are well worthy of a place on the bench, and should have it, barring an unusual tight squeeze for room.

N. zanzibarensis varieties should be grown annually from seed. These may be planted any time from August to January. Sow the seed thinly in 4-inch pots or pans about as you sow mignonette, in any sandy soil. Then place the pots in a metallic tank in about a foot of water. There must be a lamp or some other heating arrangement underneath, so that the water can be maintained at a temperature of 80° to 85°. The seeds will germinate in four or five days and as soon as the seedlings can be handled they should be pricked out singly into 2-inch pots, being careful to clean the little plants of any green moss that may have propagated in the tank and attached itself to the seedlings. Place the pots back in the tank or in additional ones and grow on, maintaining the water at the same temperature as before. Pot up as they seem to need it, but probably they will need nothing larger than a 3-inch pot before it is time to plant out in boxes in the ponds. At Lincoln Park the tender aquatics are planted out in the unheated ponds about June 1. In the heated ponds they can be placed out as early as April.

A soil composed of equal parts of turfy loam and cow manure suits all the nymphæas. The nelumbiums love a clayey loam.

Speaking of nymphæas most valuable to the commercial florist, Mr. Pettigrew said that from his experience he believed that Nymphæa marliacea rosea would quickly supersede N. odorata rosea, at least in the west. With him N. marliacea rosea was a much stronger grower and freer bloomer than N. odorata rosea, especially late in the season, and the specimens now to be seen in the ponds certainly bear out his views. He has been told that N. o. rosea does better in the east than it does here, and this may be true, but that N. marliacea rosea is the pink pond lily for the west there can b

little doubt, as the flowers are not only more freely produced, but are also more beautiful than the Cape Cod lily. And Nymphæa marliacea chromatella would appear to be the most valuable yellow sort to the commercial florist. All the marliacea sorts should be annually divided, as otherwise they bunch too much.

On the west side of one of the unheated ponds at Lincoln Park, Mr. Pettigrew has arranged a rocky bank, which, planted as it is with plants and vines, is one of the most charming spots in the park. In among the small rocks grows the brown oxalis, while creeping over all are maurandias, senecios, cobæas, lophospermums, Kenilworth ivy and Solanum jasminoides grandiflorum, the latter at present showing numerous clusters of its strongly fragrant flowers, while dotted here and there waves the Cyperus alternifolius and in the pond below is a colony of cattails and rice grass.

Tamarix amoorensis also grows luxuriantly on the margin of the pond, as does the blue day lily, and Canna Ehemanni is so nearly an aquatic that it can be grown right out in the pond, though it is retained for use on the margins. The two upper ponds are connected by a little strait spanned by a rustic stone bridge, over which clamber a mass of blooming vines. The beautiful picture these ponds present will not be soon forgotten by those privileged to see them.

Plant Notes.

[Apart from the material sent me for my paper on new plants for the convention at Toronto, many items of great interest were contributed by the florists who were so kind as to help me in that matter. The following notes are some of them and given here with the authors' permission.—WM. FALCONER.]

EVERGREENS FOR FLORISTS.—Mr. Joseph Meehan, of the Germantown Nurseries, Pa., writes me: "The city florists come to us every fall for our small evergreens, which they use for window boxes for their customers in winter. All large hotels and many dwellings use them. The kinds in demand are hemlock, Norway and white spruces, Irish yew, arbor vitæs and the following kinds of retinosporas, namely, ericoides, filifera, obtusa, leptoclada, pisifera, plumosa, squarrosa and Sieboldii. They do not use yellow or white variegated evergreens for outside work in winter, as the variegation is too suggestive of injury by freezing. In hall ways, bay windows and like places the golden ones come in useful and so does the evergreen euonymus. Judging from what sales are made and from what I see, the demand for this kind of decorative stock is increasing every year. The sizes for outside stock are from one to two feet."

THE CLIMBING PERLE DES JARDINS ROSE.—Mr. Gus Bennett, of Flatbush, L. I., writes: "As regards the Climbing Perle I must say I like it very much. I planted out 6 plants in the month of June last year against the rear rafters of a three-quarter span house and they grew very rapidly. About the 10th of November I stopped all the shoots and Christmas week had a beautiful show of roses overhead, as good almost as any Marechal Niel and better as regards color and stems. And I can say that I have been cutting regular crops right along since then. There is no doubt it is a larger and deeper colored rose than the ordinary Perle."

HELICONIA AND PHRYNIUM.—These two plants I think could be made useful to the trade. They came to me from England and the statement was made they were bad travelers and their exportation to America had not previously proved successful. I don't know to what extent this statement may have been found to be true, but the plants which came to me, though certainly in bad condition when received, were rapidly recuperated and grew and grew. I refer to Heliconia aureo-straita and Phrynium variegatum. As ornamental foliage plants I know of none better offered to the public within recent years. They both require stove treatment and with us have grown, colored and developed into specimens that were a joy forever. We discovered them to be wonderfully prolific and whether divided or permitted to grow into half or full specimens, presented beautiful individual and new colors and characteristics which prior to their introduction were not to be found in the long lines of decorations which our stoves and drawing rooms presented. I cannot claim for either of these plants that they are worthy to be classed among the latest novelties, but knowing of the difficulty of their importation I have thought some knowledge of them might be worthy of presentation to the trade as an item of interest and profit. I will only add that the heliconia I think may be made especially useful. Last Christmas a year ago we carried it into our dining room in the dwelling that it might add its attractions to a group of palms, dracænas and crotons, where it not only rivalled in point of grace and color any of its associates, at the same time it stood for weeks bright and fresh, thus demonstrating a lasting quality which will be quickly recognized as of vast value by growers and decorators throughout the land.

F. T. MCFADDEN.

Packing Plants.

Packing plants is an art that is but imperfectly understood by the average florist; that is, outside of the large establishments where the shipping trade is a specialty. The main things to be observed in packing plants are to pack so closely as to prevent any shifting of plants in transit and to make the package as light as is consistent with strength. In winter or early in spring, when there is danger of frost, all boxes in which plants are packed should be lined with paper, using from six to twelve thicknesses of it, according to the class of plants to be shipped, always using an extra quantity on the bottom of the box, as that is where the plants suffer most from draughts or from standing on cold platforms. Small plants at that time of year should be wrapped in paper, wrapping closely and covering all the foliage, then laid in layers in the box, putting a little hay or excelsior between each layer, and when the box is full to within an inch of the top fill it up with hay or excelsior, and fold the paper from the lining over the top and nail on the cover, always having packing enough on top of the plants to require considerable pressure to get the cover down. As the weather becomes warmer use less paper, but always pack in boxes with close covers or covers that will allow the boxes to be upended with safety, until there is danger of heating of the plants, and at this time crates such as bottles are packed in are most useful, as they are light, strong, and allow a circulation of air to the contents.

When the weather becomes warm plants must be packed in open boxes, using only paper enough to wrap up the ball, and leaving the foliage entirely uncovered. Place a thin layer of hay on the bottom of the box, and stand the plants upright, not more than two plants deep, pressing them firmly together so that they cannot move, nail a few narrow strips on the box so that the contents can be seen, and to prevent injury from articles dropped on the box. In cold weather, or if the plants are going a long journey at any time in close boxes, it is best to have them dry. At a large establishment where I packed plants for shipment to all points in the United States and Canada we always left plants for shipment to the Pacific states on the packing bench from Saturday until Monday to allow them to become dried out and we never had any complaints of plants becoming heated. For very long distances, especially if when shipped by vessel, it is best to use no paper; balling the plants in dry sphagnum, tieing the moss firmly about the ball and then placing them in the ends of a box, securing each layer with strips of wood placed across the inside of the box, and nailed firmly from the outside. If the box is long enough a double row of plants can be laid up the middle of the box, the foliage facing that of the plants in the ends, and fill all crevices between the balls with moss. By this method the plants cannot heat, and if well packed will stand a journey of a month or six weeks' duration. Of course if it is cold weather line the box with thick paper and paper up the foliage of the plants.

When shipping plants in pots in summer it is best if the pots are over 6-inch, after packing them in hay, to place a strip across the top of the pots, and nail it firmly to the sides of the box so that there is no danger of the pots shifting and breaking each other. For small orders baskets are very useful, as they are light and easily handled.

When packing good-sized palms for shipment in close boxes it is best to put a stick to the plant and wrap the stick with soft paper to keep the tender foliage from being bruised, then take each leaf separately and tie it to the stick, placing a band of paper around the foliage to keep it from being cut by the string; when the plant is tied up wrap in paper or not, according to the season. If the plants are large, and you have no box long enough to lay them down in, stand upright in a box and secure the pots by means of strips nailed across the top of the pots; then tie the tops together and take a shingle lath and cut strips long enough to reach from the bottom of the box to the top of the plants, nail them to the outside corners of the box, then nail other strips to the upper ends of the uprights so as to make the top secure; pass a strong cord around the plants and fasten to each corner of the frame, and you have a package that is not half the weight of a long box, and can be laid on its side or turned in any position, with no danger to its contents.

Orchids in pots should be tied down first by passing string over the pots and under the bottom, taking care to avoid breaking and bruising the growths and roots; then unless it is a very large plant you can put plenty of moss amongst the growths and wrap in paper the same as other plants. If it is a large specimen each shoot must have a stick to it and be separately wrapped in soft paper; but in packing orchids when in growth bear this in mind, the less paper and cotton or wool used the better they will travel, for most of them damp easily. Orchids



A CALIFORNIA VIOLET FIELD.

on blocks are easily packed; all that is necessary in winter is to pack the plant full of moss to prevent the growths being broken and then wrap in paper and pack in hay in a well lined box. In summer the best plan is to wire the blocks to boards and nail the boards to the inside of a box, then put on the cover, and if securely fastened they will travel any distance.

Large dracænas, ferns, and in fact all specimen plants, should be packed in the same manner as palms. In wrapping up plants in paper a little moss placed around the stem when it is wrapped up prevents the stem being broken or injured when laid down overlapping each other in the box.

All succulent or thick fleshy leaved plants travel poorly, and are apt to damp when going long distances, so they should be kept near the top of the box. When the plants to be packed have tender roots or are not established enough to turn out of the pots without damage to the roots then it is a good plan to turn out of the pot and slip into a Neponset paper pot of the same size, then it can be wrapped up just the same as if out of the pot, and the saving in space and weight is great, also there is less danger from injury caused by plants shifting in transit, for if a pot breaks it allows the others to move and then the shipper gets complaints of plants arriving in bad order.

In conclusion I would say, do not be afraid of packing tight, for the less room plants have to shake in the better they w ll travel.

¡Maywood, N. J. JAS. S. TAPLIN.

Violets in California.

Much has been said in the AMERICAN FLORIST about violet culture in the eastern states, but I have seen nothing on the subject from California.

In the coast counties of California—in fact, along the whole Pacific coast, the violet thrives wonderfully. In the interior regions, where the air is hotter and sun warmer, they can be grown, but not near so successfully. There is, perhaps, no place in the world better adapted to the culture of this popular flower than the region bordering upon the San Francisco bay. They are grown in ridges, generally under the shade of large trees. The plants reach large proportions, and the flowers are of wonderful size, color and fragrance, it being not unusual for the stems to be six or more inches in length and stout in proportion. The plants are not as yet subject to attacks of any disease or insects.

The accompanying illustration is from a photograph of the view of the 5-acre violet field at the Sherwood Hall Nurseries, Menlo Park, San Mateo county, about one hour's ride from San Francisco and in close proximity to the Leland Stanford Jr. University.

As will be seen, the plants are in this case planted under magnificent live and white oak trees. This is by far the largest and finest violet field in the United States, and is worthy of more than passing notice. The varieties grown are the Marie Louise, Neapolitan, Swanley White and the Czar. The season lasts from October to April, and sometimes as many as 1,000 bunches of 100 violets each are picked in a day, and from 12 to 15 men are often engaged in picking at once. The bunches are placed in open boxes, which are removed in wheel-barrows to the packing sheds. A smart man can pick sixty bunches a day. The violets are for the most part sold to the flower stores in San Francisco, and retail at 25 cents a bunch on an average.

The Sherwood Hall Nurseries, which are owned by Mr. Timothy Hopkins, of the Southern Pacific Company, are by far the finest on the Pacific coast, several acres being devoted to sweet peas alone, and as many more to chrysanthemums. A number of the most approved modern rose, carnation and general plant houses have been added during the past year. The establishment has hitherto been run chiefly for supplying cut flowers to the city trade, but arrangements are being made to enter largely into the general shipping trade.

Friend James Lynch, who has charge of this princely establishment, has done himself proud, and can hold his head up among the first of Eastern florists. More anon. EMORY E. SMITH.

San Francisco, Cal.

Newport, R. I.

The floral decorations at "Linden Gate" on the occasion of the marriage of the daughter of Mr. Henry Marquand, August 13, were very elaborate.

The entrance to the mansion through the wide-open hall was a veritable bower. The ceiling was arched and heavily hung with grape vines, extending over the doorways, hanging heavy with bunches of grapes. Guests were ushered into the large dining-room, where the wedding ceremony took place in a broad recess at the southern end of the room. The place was decorated with many garlands and fringes of pure white sweet pea flowers, and maidenhair ferns, forming a beautiful contrast against the stained glass windows, through which the noonday sun's rays lightly played, giving a beautiful effect to the bridal party as they stood during the ceremony and afterward for the reception of guests.

On the mirror in the dining-room were hung garlands of flowers and the mantel was banked with white roses and lilies of the valley. The doorways were festooned with passion vines. The dining-room was arranged with a buffet table holding a miniature lake of blue, pink, and white

water lilies, back of which was a vase of scarlet gladiolus and tall fern leaves and variegated grasses. From the center of the ceiling were hung strands of laurel, after the manner of a May pole. The library was decorated with red and yellow flowers. On the tops of the bookcases were banks of tropical foliage plants.

Another buffet table was spread in a smaller room off the hall, and held a center piece of scarlet phlox. At the east end of the house a large tent was erected connecting with the piazzas and main hall. In it the supporting pillars were covered with fresh cut field corn tied with bows of ribbon. The ceiling's pink facings were canopied with silver maple and the corners were massed with large hydrangea plants in full bloom—white, pink and blue—reaching nearly to the top of the tent.

But the ball recently given by Mrs F. W. Vanderbilt undoubtedly exceeded in elaborateness of decoration anything of the kind before known.

The ball took place at "Rough Point," the summer home of the Vanderbilts. The stone bridge at the edge of the lawn, and against which the breakers dash, was illuminated with calcium lights, the effect resembling a stage scene in a modern theatre. A hundred or more fairy lamps with delicately tinted shades were placed on and about the rocks along the shore and on the grounds, and these tiny lamps were also placed around and across the stone bridge. The grounds were also brilliantly illuminated with small electric lamps and Chinese lanterns. It was a weird and picturesque scene.

The house decorations were superb. The floral decorations were principally in red and white, more especially in the large hall or ball-room, with its mammoth fireplace, rich tapestries and artistic furnishings. The vestibule and outer hall leading to the ball-room were banked on either side with green and variegated tropical plants. Dancing took place, of course, in the large hall which was built with a view to such entertainments. It is situated in the center of the house, and opens from the main floor to the roof and is supported by heavy carved pillars. At the second floor a gallery extends all around the hall, and the front was covered with fragrant flowers, hanging on the face of the woodwork. Just below the gallery were two broad deep fringes of fresh flowers. To introduce electric lights with the flowers and to reduce the extreme height of the roof of the ball-room there were suspended from the rafters several mammoth Japanese umbrellas, on the outer edges of which tiny electric lights were hung irregularly, being partly covered by light garlands of flowers and green, through which the light threw a pale and subdued tint on the dancing floor, the whole being connected by garlands of roses with the fringe work of flowers on the gallery fronts and continued around and through the archways of the gallery in conventional garlands, with heavy pendants. From the heavy iron electric light brackets, of which there are fifteen around the hall, were hung large floral placques, festooned with flowers, and each light was covered with a tulip-shaped shade. In the large stained glass window, which extends to the full height of the hall, stood an immense tree fern, with long, gracefully spreading fronds, under which many of the guests were seated. A pyramid of ferns was formed at the base of the tree. The wide staircase leading to the galleries was heavily draped with passion vines in full bloom and over two thousand roses were used as well.

In the large reception room which adjoins the halls, and forms a passageway to the dining and billiard-rooms, where supper was served on small tables, as well as on the piazzas, was arranged a large water lily tank, containing specimens of many of the various colored lilies and an abundance of lotus flowers. The feature of the room was the decorations with wild grasses and bullrushes. The dining-room, resembling a banquet hall, is in oak. The tall mantelpiece and huge fireplace were massed up with tall foliage plants of the finer varieties, and the shelf was a study of gloxinias, allamandas and Farleyense fern fronds. Over the mantel the panels were filled in with American Beauty roses and ferns. Center pieces of flowers and candelabras, with wreaths of flowers, were placed on each of the seventy-five small supper tables.

The verandas on the ocean side of the house were connected by two large tents, one of which was left open at one end to open up the grand marine view, with its calcium lights and fairy lamps. The features of the decorations in the tents and on the stone floored verandas covered with rich Turkish rugs were the tall pyramids of hydrangeas, flowers of various colors and laurels at the stone pillars while the roof was covered with oak boughs.

Japanese lanterns were hung beneath the red, white and blue canopies. The cut glass globe in the center of the mammoth Japanese umbrella in the ball-room was illuminated by a 250 candle electric light, while the one in the alcove was lighted with a 100 candle power light, while throughout the first floor 10,000 candle power was used. Streamers of roses and smilax, each thirty feet long, and tied here and there with satin ribbon, were attached to the center umbrella and strung across the hall over the heads of the dancers, and tied to the enclosing balconies.

Both decorations were arranged by Hodgson. M.

Boston.

The annual meeting and election of officers of the Gardeners' and Florists' Club took place on Tuesday evening, Sept. 1. The list of nominees as presented by the nominating committee was as follows: President, J. H. Morton, Mattapan; Vice-President, W. H. Long, Boston; Secretary, Elijah A. Wood, West Newton; Financial Secretary, Rob't Farquhar, Boston; Treasurer, W. H. Elliott, Brighton; Executive Committee, Lawrence Cotter, Dorchester, Kenneth Finlayson, Brookline, L. T. Peck, Boston, Edw. Hatch, Boston.

The whole of the above ticket was elected with the exception of Mr. Elliott, who persistently declined to accept the position of treasurer. Several other gentlemen whose names were proposed also refused to serve and it appeared for a while as if the club would be unable to find anyone willing to take care of the money, a condition of affairs worthy of record. Had the election taken place previous to the exodus to Canada perhaps it would not have been so difficult to find a willing treasurer. Mr. F. W. Foster of Boston was finally elected to fill the position, although he made a futile attempt to follow the example of the others and withdraw.

The meeting was a large one. The report of Mr. S. J. Coleman for the committee on the Toronto bowling tournament was listened to with interest and the cup which had been brought home as third prize by the bowling team was passed around for inspection. The members of the bowling team had to take considerable chaffing as to their inability to cope with the experts from Philadelphia and New York. Regarding the disposition of the cup it was finally voted that an arrangement be made whereby every member of the club desiring to should roll for it, the cup to become the property of the individual making the highest score.

President Foster reported for the delegates who had been sent by the club to the meeting of the Florists' Clubs at Toronto. On motion of Elijah A. Wood it was voted that in future the annual supper of the club should occur on the evening of the first day of the chrysanthemum show instead of in January as heretofore, so that the club might have the benefit and pleasure of the company of the many worthy gentlemen from distant parts who are liable to be in the city at that time.

A committee was appointed to prepare appropriate resolutions on the death of Mr. W. S. McGregor, who was a member of the club.

The retiring president, Mr. L. H. Foster, made a few valedictory remarks, congratulating the organization upon its prosperity during the past year, and then relinquished the chair to his successor, Mr. J. H. Morton, who was welcomed with much applause and who in a few well expressed words thanked the club for the honor conferred and expressed his zeal for the work of the coming year. Before adjournment a vote of thanks to the retiring officers was unanimously passed.

W. S. McGregor, the victim of the recent assault on Bosworth St., was buried from the Congregational Church in Woburn on Monday, Aug. 31. The funeral was very largely attended, among those present being a delegation of about thirty-five from the Gardeners' and Florists' Club and a large number from the Scottish Clan, of which deceased was a member. The display of floral designs was very extensive. Daniel Downey, his assailant, has been held on a charge of manslaughter.

Mr. Robert Cameron, head gardener of the Harvard Botanic Garden, has returned from Europe, where he has been spending a few weeks looking over the floral and botanical treasures of the old world.

Mr. P. Welch, who left the Boston party returning from the Toronto meeting, at the White Mountains, has been heard from. His diary of the first few days is something in this fashion: Went to bed; got up for breakfast; went to bed; got up for dinner; went to bed; got up for supper; went to bed. W. J. S.

Philadelphia.

The meeting of the Florists' Club on Tuesday evening, September 1, was largely attended. Officers to serve for the ensuing year were nominated for election at the next meeting of the club. A paper was read by Mr. Robert Craig, the subject being, "What Was Accomplished at Toronto." It was well received and ordered to be sent to publication committee.

The club is increasing in membership and the attendance and the interest taken by the members is very encouraging. Committees were appointed to look after the interests of the coming chrysanthemum show. The matter of decorating the hall for these occasions has been taken in hand by the club for some time past, and this year they promise to do

better than ever. They are also making efforts to improve the library room of the Horticultural Society, where the business meetings of the club are held. The books of the library are all placed around the room in cases having wooden doors; it is proposed to replace these with glass, through which the books can be seen. There are many old and valuable works on these shelves, to which it is proposed to add new books of interest to the members as they can be obtained.

Isaac Kennedy, foreman for Robert Scott & Son, has resigned his position and is about to enter into partnership with George Campbell. They have rented Mr. Campbell's father's place, who will now retire from business. The greenhouses are quite extensive and well stocked with a general variety of plants. We wish them success.

John Leitch, formerly with George Craig, has opened a floral establishment at 259 South Eleventh street. This addition will make five cut flower stores in two blocks. If competition is the life of trade there ought to be plenty of life on Eleventh street the coming season.

John Kinnear, a landscape gardener of Philadelphia, has moved to Richmond, Ind., to take charge of and lay out a new park in that city.

Business is about as usual at this season of the year, and the supply of flowers easily equal to the demand. Some new crops of roses are coming in and look well, but like all early cuts are short in the stem. Perles, Sunsets, and Niphetos bring $2 a hundred, while Mermets, Brides and La France command $3, and some have the temerity to ask $4. Carnations $1 a hundred, asters, heliotrope, bouvardia, from 10 cents to 25 cents a bunch. Sweet peas are about done. Tuberoses can be had in quantity, and the best sell for $3 a hundred.

The Florists' baseball club of Philadelphia were invited to play a game with a club made up of players principally from the greenhouse establishments of Chestnut Hill and vicinity. The time fixed was Saturday, September 5. The city boys were promised a good time. "Of course we don't expect to win, as you can easily beat us, but come up and we will have some fun anyhow." Lured by these and similar remarks the city boys accepted the invitation and had all that was promised but that which they really sought, namely, the "game" they left behind them.

It was a great game of ball, requiring ten innings to decide. At the end of nine innings each side had one run to its credit; in their half of the tenth the "Mermaids," for such they styled themselves, made three runs. The florists in their turn tried to tie or go one better; they managed to get two men across the plate and one as far as third, but there he was left, the last man striking out, and so the Mermaids won with the score 4 to 3 in their favor. After the game the company adjourned to the greenhouses of Mr. Knapp, where a lunch was served, after which the florists turned homeward and discussed the many ifs that might have won the game.

At the club room the attendance has been good since the return from Toronto. Of course the result of the match was heralded with delight and the boys were showered with congratulations. The cup will occupy a prominent position in the club room in a nice glass case. New pins and some new balls have been ordered, and now "for Washington" is heard on all sides.

The team that won the cup has been challenged by six good men that could not go, but think they can beat the winners. The match comes off Thursday evening, Sept. 10. Some good scores have recently been made, W. K. Harris placing himself among the leaders with 216. &.

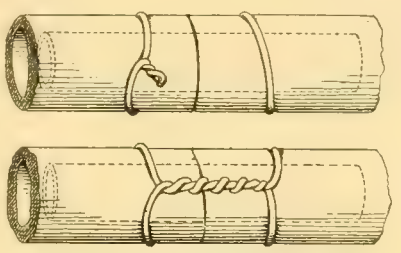
Chicago.

The flowers sent to Mr. John Thorpe on the occasion of his installation into the office of Chief of the Division of Floriculture of the World's Columbian Exposition were afterward distributed among the heads of departments at headquarters and the ladies came in for a very large share. See elsewhere for a list of the arrangements and donors.

Mr. C. F. Klunder, formerly of New York, will open a store at 185 Michigan Ave., near the Richelieu Hotel, about the 15th inst

Mr. Wm. J. Smyth, formerly with E. Weinhoeber & Co., has returned from his eastern trip and will soon open at store at 270 Thirty-first street.

Some very important matters will be brought before the Florist Club at the meeting this Thursday evening (10th) and a full attendance is specially requested.



HOSE MENDER.

Mr. J. C. Vaughan is adding five new houses to his establishment at Western Springs. One 120x25 is for palms, one 150x20 for roses, one 150x16 for cannas, one 150x11 for general plants and one 120x15 for propagating. All are being put down in first class style, on the principle that one heavy first investment is cheaper than frequent rebuilding.

The ponds of aquatics at the parks are unusually beautiful this year, especially the upper ponds in Lincoln Park. The cold winds of last week did not do them any good however and those that have not yet seen them should lose no time in doing so if they do not wish to lose opportunity of seeing them at or near their best.

The garden of hardy plants at Lincoln Park is also making a beautiful display now, the hollyhocks, hardy phlox, rudbeckias, double sunflowers, etc., making a fine display. Some gaillardias now in bloom promise some beautiful effects when grown in quantity and a very pleasing display at present is the border of blue and white day lilies around the fountain, all being covered with bloom, the blue variety being simply a mass of flowers.

Among sub-tropical foliage plants on trial at the park Mr. Pettigrew is very favorably impressed with Wigandia macrophylla (caracasana), and it is certainly a beautiful thing.

The iron frame work of the new palm house at Lincoln Park is nearly all complete and the glass is arriving. Glazing will be begun this week. But the building will probably not be ready for plants before January.

Among recent visitors to the city were two Kentuckians, Messrs. S. J. Thompson of Louisville and T. C. Hobbs of Anchorage.

Mr. D. S. Heffron has a magnificent specimen of Hydrangea paniculata grandiflora on his place at Washington Heights. It is 14 years old and is 12 feet high and about the same in diameter, it having been trimmed annually to preserve this form. This year it bore fully 1000 heads of bloom, and Mr. H. sold $10 worth of bloom from it and without cutting all there was in sight. Any florist who retails his own flowers and has not a few specimens of this valuable shrub on his place should lose no time in planting some. When they have become well established they will produce a lot of flowers that come in very handy in summer time to use as the groundwork in funeral arrangements and in other ways. And needing no special care or expense the product is nearly all clear profit.

The trade is showing a little more life from week to week. The improvement, to be sure, is not very marked as yet, but there are unmistakable signs of returning activity. Society is beginning to gather in the city again, as is evidenced by orders for baskets and boxes of cut flowers with the "welcome home" card attached. The boys are beginning to rub off the rust which has been accumulating in the last three months, and getting ready for another nine months' siege of hard work.

Prices are stiffening on roses. An advance of $1 per 100 is quoted by the commission men on all good stock.

Hose Mender.

The accompanying engraving gives views of opposite sides of a section of hose sent us by Mr. John McGowan, Orange, N. J., to illustrate a simple method of mending hose practiced by him for years. It is certainly a very useful little wrinkle and we are glad of the opportunity to place it before our readers.

After trimming evenly the ragged edges of the break in the hose a short section of half inch iron pipe is inserted as shown by dotted lines in the cut. Then a piece of galvanized iron wire is wrapped around the hose as shown at the right in the upper figure and twisted tightly so as to sink into the rubber. The wire is then twisted for a few inches as shown in the lower figure, again wrapped around the hose and fastened as shown at the left of the upper figure.

The great value of this mender over any other we have seen is in the fact that the two parts of the hose are held securely together by the twisted wire as shown in the lower figure, and if the wire is twisted well into the rubber it is quite impossible for them to pull apart.

This mender is not patented, and the materials for making it are inexpensive and easily obtainable. Mr. McGowan has our thanks for the section of hose from which the engraving was made.

A SAMPLE flower of a seedling tuberous begonia is sent us by Mr. G. Foust, Rhinebeck, N. Y. The bloom exceeds three inches in diameter, very full double, high in the center and pure white in color. It is certainly a very fine flower, the finest double white we have seen.

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE REPORT OF THE COMMITTEE ON NOMENCLATURE.

This was an exhaustive, very carefully prepared and important paper, which, when it appears in the proceedings of the S. A. F. may answer a good many questions and cause a good many ears to tingle. The committee have handled the question of nomenclature of garden plants in a bold and uncompromising form. They have given attention to synonymy among varieties, and expressed themselves in the matter of English names for common plants, their use, and abuse. They believe in botanical names for all species of plants and that it is the province of the scientific, systematic botanist to attend to the botanical nomenclature of species and pronounced natural varieties, but they jealously uphold the right of the people to give common or English names to all plants.

As regards the proper pronunciation of botanical names as gladiolus, clematis and the like that folks sometimes like to cavil about, it is referred to the exhaustive article on this subject in the supplement to Nicholson's Dictionary of Gardening, which article is highly endorsed.

They deny the right of anyone to preempt a name for a plant before the plant is published.

They handle without mercy those who exaggerate or falsify the descriptions of plants in their catalogues, and severely warn those who falsify the illustrations of their plants. And one of the most stirring paragraphs in the report is contributed by "that grand old florist, Louis Menand of Albany, who now is in his 85th year."

It is gratifying, however, to learn that the committee have found the nomenclature question in a much healthier condition than it was some years ago, and that the general tendency in the trade is to give truthful statements regarding the plants catalogued, and many of the florists go so far as to give the botanical name of all new and uncommon plants, so far as they can, in order to render the identity of the plants quite visible to their customers.

Every instance of an error in the description or identity of a plant noted in any catalogue, as soon as it was brought to the notice of the committee was immediately investigated. Most times these errors were accidental. Where they occurred through indifference, carelessness, or intention, if the florist or seedsman acknowledged the error, all was well, that is if it be not repeated another year, but should the same thing occur again the case will be brought to public view.

Some folks were apt to make light of the labors of this committee but when they read the report and couple it with the fact that this committee still holds sway and is yet actively at work, they will see where it will pay every florist in the country to be straight and keep straight.

As the report of the committee on nomenclature was not presented till Thursday night (the last session of the convention) and on account of its great length, and an unusual press of business at the session, it was not read in full, only a few of the most salient points were given by the chairman, but it will appear in full in the proceedings of the society.

THE REVIEW OF NEW PLANTS.

Although we have quoted largely from Mr. Wm. Falconer's paper on this subject we have not by any means, exhausted it, for in addition to what we have used it contains important articles on orchids, hardy plants, hardy roses, bulbs, and many miscellaneous subjects, by eminent correspondents, and all of which will duly appear in the annual proceedings of the Society of American Florists.

AN ADVANCE SHEET giving list of premiums to be competed for at the annual spring exhibition of the Pennsylvania Horticultural Society, to be held March 29 to April 1, 1892, has been issued. Over $1,500 are offered in premiums, of which $800 is for plants in pots, $200 for cut flowers (open to growers only), $130 for cut flowers (open to florists only), $324 for floral arrangements, table decorations, and plant decorations, $37 for fruits and $70 for vegetables. Among the premiums offered for plants in pots are very liberal prizes for flowering bulbs in variety, and for orchids, the prizes for collection of orchids in bloom being, 1st $75, 2nd $50. Special premiums amounting to $52 are offered by John Gardiner & Co., for 24 specimens of mushrooms. Another special premium, a silver cup, is offered by Mr. Robert Craig for twelve blooms best carnations, new variety, not disseminated. The competition for this cup will undoubtedly be a most interesting feature of the exhibition. Copies of the advance sheet may be had on application to the secretary of the society, Mr. D. D. L. Farson, Horticultural Hall, Broad street, Philadelphia.

WHETHER it is overproduction or something else, the men in the trade at the large producing centers who have a reputation for far-sightedness are making but few additions to their glass surface. But there is a vast amount of repairing going on. Seems as though the wise men in the trade were turning their attention more to making every square foot of their present plant pay every penny it can be made to pay rather than to spread out over a larger surface. There are few establishments in the country where an investment in improved substantial houses to take the place of less convenient ones and in more and better labor and labor saving tools, would not be far more profitable than an extension of glass surface.

THE MACHINERY of the Bureau of Horticulture of the World's Columbian Exposition and of the Division of Floriculture are at last in motion. It would have been better had the start been made earlier, but by pushing matters along rapidly now there is still time for the preparation of one of the grandest displays ever seen. But no time must be lost now. What will you exhibit? Communicate now with Mr. John Thorpe, Chief of the Division of Floriculture, World's Columbian Exposition, Chicago, for any information you may desire, of either a general nature or regarding the details in which you are specially interested.

SUBSCRIBER.—No. 1, material insufficient for determination; No. 2, Eschscholtzia californica; No. 3, Platycodon, probably P. grandiflorum; No. 4, a malvaceous plant, but the material is not enough to justify one in saying precisely what it is. In sending plants for name not only should full and perfect flowers be enclosed, but also leaves and seed vessels where obtainable, and the sender should also give full particulars about the plants.

IT IS PLEASING to note the cheerful tone of the reviews of the commercial situation, of the prophecies of large crops and consequent great activity in general trade. With money abundant and our customers prosperous we may look for liberal sales and prompt collections. May these pleasant prospects be real and may the florists of America reap their share of the promised prosperity.

Catalogues Received.

Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y., the Florida Greenhouse and Heavy Duty steam and hot water heaters and improved Pierce air valve; S. Wilks Mfg. Co., Chicago, the Wilks heaters; E. M. Rumph, Marshallville, Ga., plants; John Gardiner & Co., Philadelphia, Pa., bulbs; United States Nurseries, Short Hills, N. J., new and rare plants; same, orchids; same, hardy perennials; Phila. Immortelle Design Co., Philadelphia, Pa., florists' supplies; L. Green & Son, Perry, O., nursery stock; Siebrecht & Wadley, New Rochelle, N. Y., orchids, decorative plants and bulbs.

News Notes.

BELLEVILLE, ILL.—A. S. Halstead has just completed two new rose houses 20x123 each, and one new carnation house 11x123.

DANVILLE, ILL.—The Maple Hill Floral and Nursery Co. has been incorporated with a capital stock of $10,000. The incorporators are J. H. Woodmansee, Grattan Hall and A. C. Wasson.

SEATTLE, WASH.—The Woodland Park Floral Co. has completed two new houses, one 75x20 for roses, and one 75x14 for general plants. The company contemplates the erection of two more houses at once, each 75x14.

MILWAUKEE, WIS.—Mr. H. Schwebke will vacate the present leased greenhouses and occupy three new ones of his own, now nearly finished. They are on the Lisbon road. Two of the houses are 100x16 each, and the other is 100x10, all to be heated by steam. Mr. S. will use them for growing roses, carnations and smilax for his retail trade. His city address remains the same as before.

WASHINGTON, D. C.—The coming session of the American Pomological Society, to be held here September 22 to 24 inclusive, will, it is believed, bring together one of the largest assemblages of fruit growers ever known in America. The programme covers nearly every question of interest to pomologists, and the essays are to be prepared by men of national reputation in their special departments. The coming meeting bids fair to much further extend the influence of this society which has already done so much to advance the best interests of pomology.

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Cut Flowers.

	BOSTON, Sept. 8.
Roses	3.00 @ 6.00
Carnations	.50 @ .75
Lily of the Valley	4.00
Asters	35 @ .50
Gladiolus	2.00 @ 4.00
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Sweet peas	.25
Pink pond lilies	8.00
Smilax	10.00 @ 12.00
Adiantums	1.00
Asparagus	50.00
Lapagerias	25.00
Allamandas	4.00
Stephanotis	2.00
Tuberoses	.50

	PHILADELPHIA, Sept. 8.
Roses, Beauties	8.00 @ 15.00
" La France, Albany	3.00 @ 4.00
" Mermets, Brides	3.00
" Perles, Niphetos	2.00 @ 3.00
" Gontiers	1.00
" Marie Guillots	2.00 @ 3.00
Carnations, long	1.00
Carnations, short	.50
Asters	.50 @ .75
Valley	5.00
Tuberoses, stalks	3.00 @ 4.00
Smilax	15.00 @ 20.00
Adiantums	1.00
Gladiolus	2.00

	NEW YORK, Sept. 8.
Roses, Gontiers, Niphetos	1.00 @ 2.00
" Perles, Cusins	1.00 @ 2.00
" Watteviles	1.00 @ 2.00
" Mermets, Brides	1.00 @ 3.00
" La France, Albany	2.00 @ 4.00
" Beauties	2.00 @ 15.00
Carnations	.50
Smilax	6.00 @ 12.00
Adiantums	.50 @ 1.00

	CHICAGO, Sept 8.
Roses, Am. Beauties	10.00 @ 12.50
" Wabans, Mermets	4.00 @ 4.50
" La France, Albany	3.50 @ 4.50
" Brides	4.00 @ 5.00
" Wootton	3.00 @ 4.00
" Perle, Niphetos	3.00 @ 4.00
" Gontiers	2.00 @ 2.50
Carnations, long	1.00 @ 1.50
Carnations, short	.50
L. auratum	8.00
Asters	.50
Smilax	15.00
Adiantums	1.00

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FLORAL DESIGNS.
The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address (with $3.50 for the book)
J. HORACE McFARLAND,
Box 655, HARRISBURG, PA.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

New York.

Chas. Henderson, recently returned from an extended European trip, is the guest of his brother at the Wilburton, Spring Lake, N. J.

When last heard of Wm. Elliott Sr., of Dey street, was enjoying the beauties of the grounds around Blarney Castle, Cork, Ireland. He did not kiss the Blarney stone, in fact he didn't need to, as anyone who has ever listened to the eloquent auctioneer well knows. His absence from Toronto was regretted.

A matrimonial wave is beating briskly around the seed stores, to-wit: The recent ventures of Willie Richards, of Thorburn's corps, and Charlie Littlefield, of Peter Henderson's. More to follow when the harvest moon is full.

THE CALIFORNIA onion seed crop diminishes as the season advances. A good judge who has been carefully over the ground gives it as his opinion that the crop will not clean up over 50 per cent of what it has been for the past two years. The area planted was considerably less, owing to scarcity of onions, and the hot weather in June hurt most of the stock. Whites are almost a failure. Lettuce and celery will be full crops.

THE MAMMOTH CHESTNUT CO. has been incorporated at Camden, N. J., and Philadelphia, Pa., with a capital of $60,000. They propose to buy, sell and cultivate all kinds of seeds, nuts, fruits, trees, vegetables, etc.

THE LOW average temperature of the past ten days causes considerable anxiety among the trade concerning all crops liable to injury by frost, sweet corn, beans, vines, etc.

D. M. FERRY & CO. are building a large addition to their warehouse. Their onion seed crop while not quite a full one is larger than usual owing to increased acreage.

DISCOURAGING reports come from the Nebraska seed growing districts. Some predict less than one-half an average crop.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

S. B. HICKS, representing Cooper, Taber & Co., London, is making his annual trip.

VISITED CHICAGO: H. W. Buckbee, W. W. Tracy, William Meggat.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a first-class florist. Good references. Address
care Pennock Bros., 1514 Chestnut St., Phila., Pa.

SITUATION WANTED By young man, single, age 23, in cut flower and seed store; 6 years' experience. Best references Address
P. O. Box 23, Canonsburg, Pa.

SITUATION WANTED By the 1st of October. Excellent rose grower; first-class propagator; well up in cut flower growing. Middle age, German, single; 20 years' experience in this country. Good reference. Address A J. care American Florist.

SITUATION WANTED—By a practical florist and gardener; German, single. Well up in propagation and cut rose forcing. Can give first-class references from a number of the largest places in the country. Address S K, 122 W. Indiana St., Chicago.

SITUATION WANTED—By a first-class gardener; German; single; age 28 years; for commercial or private place. Good rose and cut flower grower, and all kinds of greenhouse and bedding plants. Steady and sober. Can furnish good references. Address L D. care American Florist, Chicago.

SITUATION WANTED—By a German florist and mushroom grower; has 20 years' experience in growing mushrooms, palms, cut flowers propagation and vegetable growing, and a good designer; temperate; steady worker. Only a first-class position desired. Address MUSHROOM, care Am. Florist.

SITUATION WANTED—By a good all round man as manager, florist's or private establishment; 25 years practice, private and commercial in England and America. Successful plantsman and cut flower grower; also quick and tasteful at floral work. Abstainer; married, one child. Address
FLORIST, P. O., Victoria, B. C. Canada.

SITUATION WANTED—By a practical gardener and florist with 25 years' experience in the United States growing plants and cut flowers. The growing treatment and propagation of roses a specialty for 11 years in several states Single, sober, honest, industrious. Address A. GERGEN,
care Glenmore Hotel, Chatham Square, New York.

SITUATION WANTED—By a first-class florist and gardener; German; 10 years' experience in growing roses, carnations, ferns and all kinds of other plants. Good cut flower worker and decorator. Very industrious; honest; first-class references; as head gardener on private or commercial place. Address G. F. DIEZ, care Schempf & Schubart,
Wheeling, West Va.

SITUATION WANTED—By a practical florist; 14 years' experience; thoroughly understands the business in all its branches; competent to take charge of large place. No. 1 plant and cut flower grower. 5 years' experience in the South. Married, no encumbrance; disengaged Oct. 1st—can come at once if required. None but first-class need apply. Address, stating wages etc.,
B W S, care American Florist, Chicago.

WANTED—A few hundred bulbs of Oxalis, double yellow, true. Address, with sample and price,
J. C. VAUGHAN, Box 688, Chicago

WANTED—A thoroughly competent rose grower, capable of managing a large establishment. Apply
HORTICOLE.
Grand Central Hotel, New York City.

WANTED—A good gardener that understands general growing. A single man only. Address, stating wages expected.
J. D. CARMODY CO., Evansville, Ind.

WANTED—To rent for term of years a well established florist business, with from 5,000 to 10,000 feet of glass. Address, with full particulars,
FLORIST, box 81, P. O. Anacosta, D. C.

WANTED—To sell stock and lease place of 9,000 feet of glass. Sickness cause of selling. Address J. JACKSON,
cor. Gates and Garfield Aves., Jersey City, N. J.

WANTED—A man who has been successful in the management of a first class horticultural establishment, including a knowledge of forestry. Apply HORTICOLE,
Grand Central Hotel, New York City.

WANTED—A man who can grow roses and cut flowers, also propagate and grow a general stock of greenhouse and bedding plants for large retail place. One who has had experience in the east preferred. Address
J. H. IVES Danbury, Conn

WANTED—At St. Augustine, Fla., for 3 months' engagement, commencing January 1, a young woman who is a thorough artist in the arrangement of cut flowers; must be quick and of pleasing address; one from near New York preferred. Address giving age and experience. FLOWER DEPARTMENT OF EL UNICO, Postoffice box 2832, New York City.

FOR SALE CHEAP—Two Scollay and one Weathered second-hand Nos. 5 hot water boilers.
JAMES HORAN, Bridgeport, Conn.

FOR SALE—Locomotive steam boiler, 20-horse power. For further particulars, address
JOS. F. SMITH, P. O. Box 140, Burlington, N. J.

FOR SALE OR RENT—Good frame dwelling and two greenhouses, several thousand pots and good stock of plants, which will be sold at one-half wholesale prices. Rent $10 a month. Would sell at a great bargain Address
MRS. CHAS. PENRY, Delaware, Ohio.

NOTICE.

WANTED—A man to propagate and do most any kind of work; also a man to work in the greenhouse and fire a low pressure steam boiler. Address
H. MOORE, 54 Beale St., Memphis, Tenn.

TO LET ON LEASE.

For a term of years, one of the **Largest** and most **Complete** Greenhouse establishments in the **West.** For particulars, apply to

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FOR RENT.

Three greenhouses, with dwelling, in good condition, situated just outside of Milwaukee, suitable for growing for either wholesale or retail trade. For particulars, address
WISCONSIN FLOWER EXCHANGE,
131 Mason Street, MILWAUKEE, WIS.

A Splendid Business Opportunity.

I will sell my half interest in our seed business, because I have made money enough and wish to retire from a busy life I established the business in 1868 and have made money ever since. Our town of 9,000 inhabitants is growing rapidly and we have the largest seed trade in town. I can leave a partner who has had 7 years' experience, is young and honest. This is a fine opening for a man with a few thousand dollars who wants to live in York State.
Address SEED3MAN, care American Florist.

For Sale.

AT PUBLIC OR PRIVATE SALE at 2 o'clock p. m. on the 15th day of September, 1891, the large Greenhouses of WM. DESMOND & CO. of Minneapolis, Minnesota; best location in the city, and large established trade. Good reasons for selling. For particulars address
SANFORD F. HOLBROOK,
Bank of Minneapolis Building, Minneapolis, Minn.

FOR SALE.

Nine greenhouses, 10,125 feet glass with 2 acres of land and stock for sale very cheap, and on easy terms; the reason is retirement from business and inability to devote the time to it.

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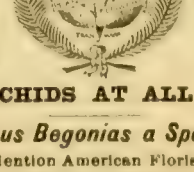
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Send for our new Trade List.

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	Per 1000
Roman Hyacinths, 13–15 ctm.	$23
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Chinese Narcissus, Oct. 1,	$7.50

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The true Hamburg and Berlin pips, extra strong, 3 years old, packed in cases of 2000 and 2500; per 1000, $9, per 10,000, $80; free on board cars at New York.

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"All good things do not grow in the West nor the East, but are liable to crop out anywhere, and those who travel with open eyes can always learn something." ROBERT CRAIG.

The above very happy quotations were placed by Secretary Stewart at the top and bottom of the pages of the convention programme distributed at Toronto. They are good enough for reproduction every year, and we make no excuse for reproducing them here.

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We have a splendid stock of Kentias in 2½, 4 and 5-inch pots, which we offer at exceptionally low prices. Plants are of our own growing and are strong and stocky. An inspection of stock solicited. 25 plants sold at 100 rates.

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" "	4	15	35.00
" "	4	18	50.00
" "	5	24	90.00
" "(heavier)..	5	24	100.00
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Kentia Balmoreana.....	2½	—	15.00
" "	4	12	35.00
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Waban, from 2½-in. pots, healthy stock	$15.00
Augustine Guinoisseau or White La France strong plants from 2½-in. pots.....	12.00
All the standard bedding roses at	4.00

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Miles' Hybrid Spiral.

First-class plants, from 2¼-inch pots, $2.00 per 100; $18.00 per 1000, CASH.

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Have also 300 good Niphetos, 3-in.....	$6 00 per 100
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Strong plants in 2½-inch pots, $2.00 per hundred.

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2000 Strong Plants From 3-inch Pots.

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SILVER SPRAY, HARRISON, PORTIA,

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A few hundred clean young Mermet Roses, 4-inch pots.

For price apply to

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Adiantum Cuneatum, 3-in.,	$8.00
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PROBST BROS. FLORAL CO.,
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CARNATIONS and BOUVARDIAS

for fall planting, $7 to $8 per 100.

Strong, healthy stock PRIMROSES, $4 per 100, 2¼-inch pots.

C. MERMET and THE BRIDE, $5 per 100 3 and 3½-inch pots.

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Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10.00 each. Cycas revoluta, 50c to $5.00 and $15 00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII, DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Draewenas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

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NEW SEED of the following noted strains is now ready. It will be observed that prices are much lower on most of the newer strains this year. Your orders will be esteemed.

	Trade Pkt.	⅛ oz.	¼ oz.	½ oz.	Oz.
Pansy, English Choicest Fancy	$.50	$1.50			
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Pansy, New Odier or Prize Blotched	$.25	$.75	$1.50	$3.00	$6.00
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New crop seed of those superb strains now ready, in trade packets of 1,500 and 600 seeds respectively, at one dollar each.

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Pansies. Pansies.

200,000 plants of the Jennings strain ready in September and October, 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies to be A No. 1 in every respect. Seed can yet be had at 50 cts. to $1.00 per packet.

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For Fall Planting.

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PANSIES	$1.00	$ 5 00
SMILAX, 2½ inch pots	1.50	12.00
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CARNATIONS, field-grown	8.00	
VIOLETS M. Louise, field-grown	5.00 to 7.00	

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FROM FIRST-CLASS SEED.
Per Hundred, 75c.; Per Thousand, $4 50.
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PANSIES Large flowering & splendid colors, $5 00 per 1,000; 50c. per 100. **CARNATIONS** Hinze's White, $5.00 per 100. Delphinium formosum cœlestinum, Delphinium album, $1.00 per dozen. Terms cash.
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PANSIES ONLY.
The Greatest Collection ever offered, including all the Latest Novelties. Our Seed is Warranted to be Fresh, Pure and Strictly First-class. Send for new Circular and Price-list to the trade.
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12,000—CARNATIONS—12,000
Field grown, and extra fine.
Mrs. Fisher, Grace Wilder, Silver Spray.
$6.00 per 100. $6.00 per 100.
Satisfaction guaranteed.
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FIELD GROWN plants ready in September and October; leading varieties. Prices per circular.
VIOLETS—Marie Louise and Swanley White. Young clumps for winter forcing $5 00 per 100.
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PANSIES.
PANSIES THAT ARE UP. Up and ready to plant when I send them. It is not only the plants that are up, the strain is up as well; up to, and most of my customers say, above any strain in the market. The price is down, considering the quality. Seed as good would cost you about as much per 1000 plants.

Price, free by mail, 100 for 75c; 500, $3; by express, $5 per 1000, with discount on large orders.

TRY THEM. THEY ARE WORTH A TRIAL.
SEND FOR LIST AND SHORT PAPER ON CULTURE.

SMILAX.
Plants have been growing, but the price has not; they are nice and stocky and ready to go right ahead. There is some 15,000 left. Let me have a chance to fill your order and do not delay it too long. Price $1.50 per 100; $12.50 per 1000, cash with the order. Sample for 10 cents.

L. B. 338. **ALBERT M. HERR, LANCASTER, PA.**

PANSIES OF THE BEST STRAINS.
$5 per 1000 by Express; 75 cts. per 100 by Mail. CASH WITH ORDER.

NOTE.—That my Specialties for the coming season are best varieties of
CARNATIONS, COLEUS, GERANIUMS. FIRST-CLASS ROOTED CUTTINGS.
Descriptive Trade List ready in November. Send for it.
ALEX. McBRIDE, - Alplaus, N. Y.

25,000 **25,000**
FIELD GROWN CARNATIONS.
Extra fine stock, best winter blooming variety. Send for Price List.
20,000 Smilax Plants, strong, out of 2 inch pots, $12.00 per thousand, $1.50 per hundred. Cash with order.
FRED. SCHNEIDER, Wholesale Florist,
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FIELD GROWN CARNATIONS
Of over forty leading varieties. Send for Price list.
GEO. HANCOCK, Grand Haven, Mich.

Field Grown Plants of
LIZZIE McGOWAN CARNATION.
ADDRESS **John McGowan,**
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TO FLORISTS.
GENTS:—My list of small stock is ready, and partly sent out, but I have failed to name many small and large Flowering Shrubs, $3, $5 and $10 per 100. Shall soon issue another.
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Mention American Florist.

F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.
Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.
☞ Wholesale Catalogue on application.

The S. A. F. in Canada.

I am glad the predictions of many florists throughout the country that few of the members of the S. A. F. would care to go to Canada, were not verified. Although unable to attend the convention myself, I cannot tell how glad I am that so goodly a number availed themselves of the opportunity thus offered to become better acquainted with the brethren over the border, and at the same time see Canada. Having myself been the recipient of Canadian hospitality on many occasions, I could safely predict that the welcome extended to the S. A. F. by the Toronto Club, and by the city itself, would be most hearty. As I was so fortunate as to have my home, for nearly four years, at Brockville, Ont., the beautiful little "City of the Thousand Islands," I can honestly testify to the genuine whole-heartedness and singleness of purpose of the Canadian people when they undertake to do a thing, and I am glad for the name of our Society of American Florists that they turned out so nobly. If the same spirit manifested by the members of the S. A. F. and the good people who attended the National Educational Convention, held in Toronto a few weeks ago, was shown by the people in general in our country it would do more towards cementing the bond of brotherhood between us than any other power in existence. Are not the Canadian people Americans as well as we of the "States"? And are we not a Society of *American* Florists? Then why should we not as well meet in Toronto as in Boston or Washington? That many thought as I think is evident, and I am sure the trip to Canada has helped to remove many erroneous impressions from the minds of many members of the society, and none will ever regret their first trip to Canada. During my residence in Canada I became fully convinced that the time is not far distant when we shall be able to meet in Ottawa or Montreal and not be annoyed by that bugbear, who tries the patience of even the most loyal, the customs officer. Few I am sure, who had not before been in Toronto, had the slightest idea of the beauties of the city they were about to visit, or of the treat in store for them, and certainly none will ever forget the hearty welcome extended to all by our Canadian cousins. The next time the S. A. F. meets in Canada I trust it may be my good fortune to meet with them.

EDWARD SALYER.

Toledo, O., Aug. 27.

Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Ben Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000.

Carnations.

Hinze's White, Silver Spray, Fred Johnson, Orient, Portia, the Century, Mrs. Cleveland and Grace Wilder.

1st size, $6 00 per 100; $70 00 per 1000; 2d size, $5 00 per 100; $50.00 per 1000.

FRED CREIGHTON, a fine pink, $10.00 per 100.

Violets.

Swanley White, $6.00 per 100; Marie Louise, 1st size, $8 00 per 100; $75 00 per 1000; 2d size, $6 00 per 100, $55 00 per 1000; 3d size, $5 00 per 100; $45 00 per 1000

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Propagating the Clematis.

"Subscriber" asks in the FLORIST of August 13 about propagating the clematis. They are propagated by seeds, cuttings, grafting and some kinds by layering. The safest method for the inexperienced is to graft, using half matured wood for the scion on the roots of Clematis flammula. If the wood is grown inside the results are much more certain. The grafting should be done early in the season, as wood can then be had in the right condition. If wood is scarce one joint on the scion will do. Layer grafting can be done with plants growing in the open pround. A slit is cut in the growing branch, the end of the root pared on both sides, neatly pushed into the slit and tied with soft twine that will rot off soon, then the branch so treated is covered with earth at the point where the root is set in, the growing end of the branch, of course, being left out to continue growing and receive more grafts. The "Jackmanni" can be worked by either of the above methods. The Duchess of Edinburg (large double white) will root freely by being layered in the ordinary way. E. FRYER.

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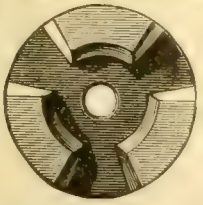
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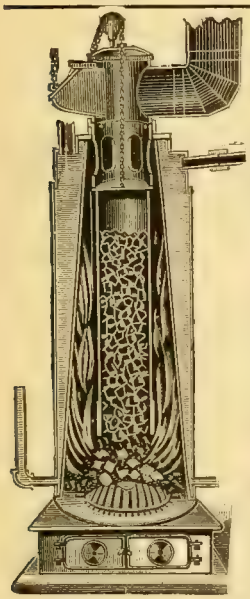
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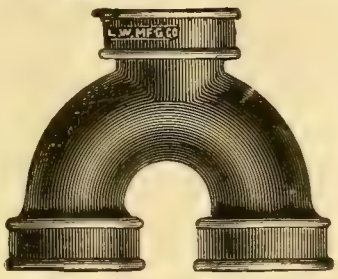
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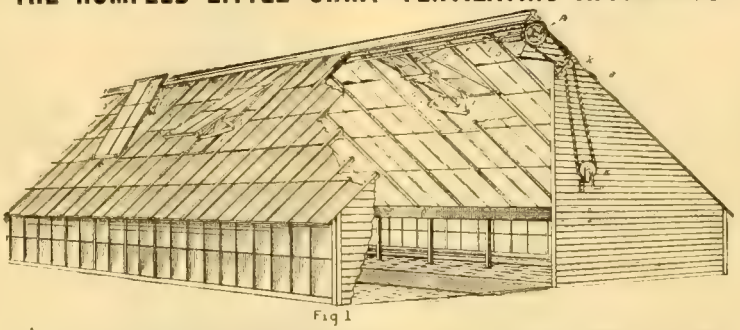


Fig 1

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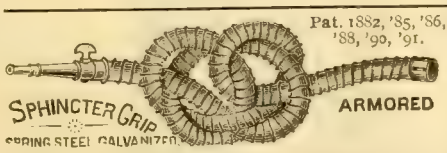
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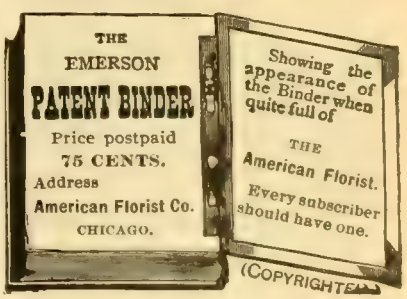
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GERMANTOWN, PA.—The annual chrysanthemum show of the Germantown Hort. Society will be held in Vernon Hall November 10 to 14 inclusive. By permission of the society the exhibition will be in charge of Mr. Albert Woltemate.

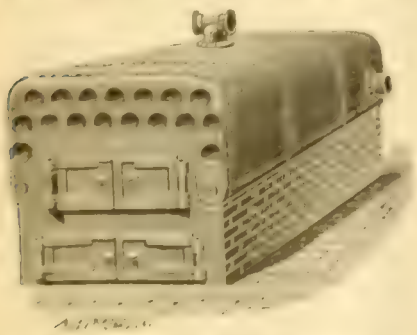
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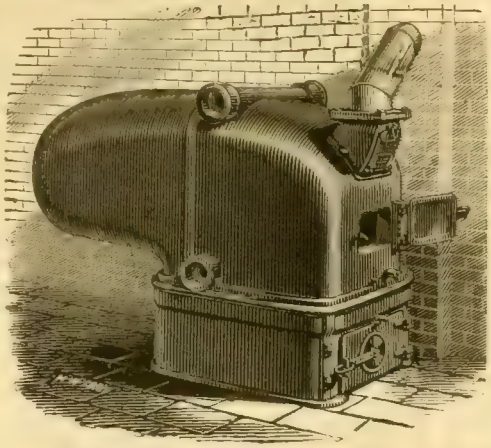
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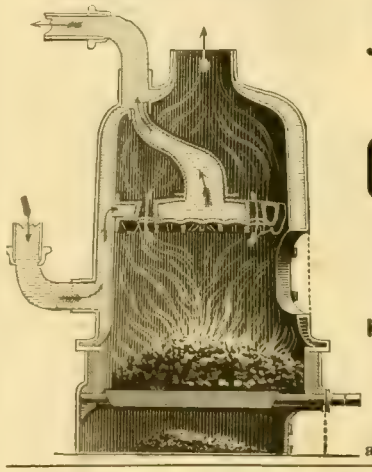
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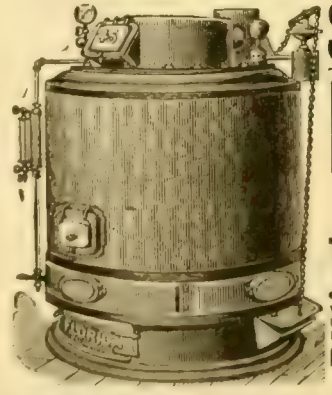
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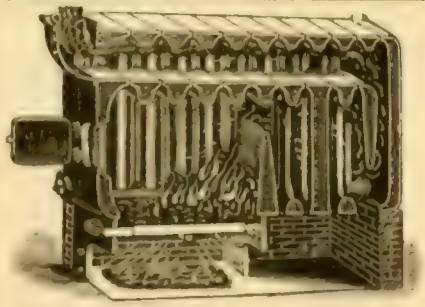
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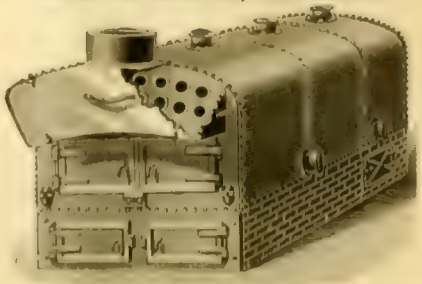
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FROM THE amount of World's Fair matter that appears in this issue we may safely call this a "World's Fair number," and still we were unable to get in all that was worthy of space, even after adding on four extra pages.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

WARMER WEATHER brightens the prospect for seed crops of corn and vines.

FOUR EXTRA PAGES this issue on account of press of news matter.

Floriculture at the World's Fair.

Last Friday there arrived in Chicago, in response to a call issued by Chief Thorpe, of the Division of Floriculture, the following members of the Society of American Florists, to consult and advise with him regarding the work of his Division: James Dean, Bay Ridge, N. Y.; Robert Craig, Philadelphia; John Chambers, Toronto; E. G. Hill, Richmond, Ind.; W. A. Manda, Short Hills, N. J.; Wm. Hamilton, Allegheny, Pa.

Accompanied by Chief Samuels of the Horticultural Bureau, Mr. Thorpe and a number of Chicago florists, these gentlemen visited the Exposition grounds and viewed the site of the Horticultural building and afterward held a meeting at World's Fair headquarters.

Mr. James Dean was made chairman and Mr. Robert Craig secretary of the meeting, there being added to the committee Messrs. Edgar Sanders and J. C. Vaughan of Chicago.

Upon the request of the chairman, Mr. Thorpe gave his views as follows:

The object of our meeting is to devise ways and means to make the horticultural department a success. There is at the present moment something that interferes with that success and that is the position of the horticultural building, with its present outline. I may say, however, that we are sure to get what we need, which is that the horticultural building be put back to the lines originally contemplated, which will give on the front of the building 250 feet, instead of the present proposed 180 feet. You will readily understand the reason I make this objection to having that building, of which 40 feet is the lowest stature, brought within 150 feet of the lake. My idea is to get the building back to its original lines. The architecture and decorations of the building is classical and superb, and we must decorate the grounds in accordance with the architecture. Hence the necessity of having the building put back. It will be put back 180 feet from the present line.

When I summoned you gentlemen in the early part of the week I felt that I was snowed under; but things have developed in regard to the appropriation of space so that you can congratulate the horticultural department of the World's Fair on what we have obtained. For instance, the wooded island, according to Mr. Olmsted's original plan, was not to be approached, sat upon, or tread upon. In conversation with Mr. Burnham and other gentlemen who are in a position to see the necessity of it they said, "The island is placed at your disposal." You ought to congratulate the World's Fair upon what they are doing for floriculture in allowing us to use their island after saying it could not be tread upon. The island presents to us an opportunity that has never been given to any other association in the world. We can contribute mural, architectural, and artistic decorations as we like. We can do what we like with it. The extent of the island is 17 acres.

The surroundings of the woman's building have by common consent been given to us to take care of, and we are going to do it in such a manner that it will be a credit not only to us, but to the world. The state buildings are also under consideration, and it may be that in a short time I can tell you that we will have the decoration of the grounds of the state buildings, which extend over all of the improved part of Jackson Park. If such is the case we can exhibit all varieties of decoration.

The matter of money with which to get this thing running is the next problem. We cannot undertake this gigantic enterprise without a large appropriation. Coming down to hard facts, this is a very, very serious question I want you gentlemen to consider: How much should be asked for to make this thing the success it ought to be? We are not like the artists, mechanics, or machinery men; we spread our business all over the World's Fair. It seems to me that we ought to have not less than $750,000 if we are going to make this thing a success. That is for you to discuss, gentlemen. I am calculating this on business plans: How much per foot it takes per year to keep up an establishment. It is safe to say $1 per foot per year is what it costs to keep an establishment in order. There is in our building 250,000 square feet. That means $250,000. To equip that you know will necessitate the expenditure of a large amount. I think the equipment will not cost less than one-half of the amount I have named. The maintenance of the grounds outside and the number of plants we will have to use, will bring up the expense, so far as I can economically calculate, to not less than $750,000. We have the opportunity of our lives to make this the most glorious thing that has ever been done in the world, providing we have the support we are entitled to. The bulb growers are willing to exhibit not less than 3,000,000 bulbs. The growers of pansies, who are spread all over this wide world, from here to Belgium, from Belgium to France and Germany, and back over the island we are all pleased to know—Great Britain—will contribute not less than 500,000 pansies, provided we have the space to display and care for them. The rose growers of the world are anxious to display, and we can get 100,000 roses. Coming down to old-fashioned flowers, I am sure we can get miles and miles of these to put on the grounds and the island, but of course it takes time and money to take care of them. Aside from these is the great variety of annual flowers, and there is no country in the

world where they do as well as here. The phloxes, asters, zinnias, rhododendrons, and everything else of that kind can be brought about by that time. I think we could have between three and four acres of rhododendrons.

It seems to me that we should have some temporary structure or structures in such shape that we could accommodate any exhibits that might be presented at this moment. I think it would be advisable that you suggest that an amount be appropriated at the earliest possible moment for us to put up temporary structures to accommodate exhibits from time to time. Furthermore, in connection with these structures I think we should have a good-sized piece of ground provided for our use so that we can have auxiliaries to help us out in case of failure in any one department of the decoration of the grounds. For instance, when the summer flowers die I would like to be able to put a million asters in their places in a single night, and we must have ground in which to grow these asters. Thus, like a kaleidescope, we can transform the grounds from time to time. My idea is *progression;* that we should not be tied down to old methods; hence the necessity of material to back us.

In the discussion which followed the exposition of Mr. Thorpe's views, he again remarked: You will understand that the main walks surrounding the horticultural building are to be 50 feet wide, consequently we will have 50 feet in grass, a 50 foot walk, and in some places not more than one foot between that and the lagoon. It is a cruel thing after Mr. Jenney has expended his time on this magnificent structure that it should not be fully decorated. There is no question but the building should be moved back to its original lines.

The following resolution was presented by Mr. Chambers, and unanimously adopted:

RESOLVED, That this committee hereby approve of the suggestion to move the horticultural building back to and beyond the line of the first proposed site It is a magnificent and appropriate structure, but if allowed to remain on the present lines, could not be properly seen. The proposed removal will allow ample space in front for sub-tropical, carpet, and other types of bedding and out-door planting. In the opinion of this committee the proposed change is absolutely necessary.

Mr. Wm. Hamilton then presented the following resolution, which was unanimously adopted:

RESOLVED, That it is the sense of this committee that the sum of twenty-five thousand dollars ($25,000) be immediately appropriated for the erection of the proposed "temporary" buildings, with the understanding that these buildings, although somewhat temporary in their character will be absolutely necessary and in constant use before, after and during the entire time of the exhibition.

At the suggestion of the chairman, Mr. Thorpe outlined briefly a plan of work, as follows:

The ladies are very anxious for the floricultural department to decorate the grounds surrounding their building. In addition to that, we may be asked to decorate the various state buildings. If we undertake this we will have to display all the different forms of adornment according to the architecture of the buildings. I believe in developing our business in that department as far as possible. One of the most important factors in the horticultural business is the decoration of grounds belonging to gentlemen of small means, gentlemen who can afford to decorate an acre, or more or less, as the case may be. My idea would be to have all varieties of decoration, little fruit gardens, vegetable gardens, etc., to surround the buildings in accordance with their architecture, which would show how such things should be done.

Mr. Hill presented the following resolution, which was unanimously adopted:

RESOLVED, That it is the unanimous opinion of this advisory committee that a number of greenhouse structures—the number and amount of space to be determined by the Chief of Floriculture—be erected at once, so that proper care may be taken of exhibits and plants that may be shipped during the next few weeks before the extreme cold weather sets in, said structures to be of a temporary character and to be placed in Jackson Park, with sufficient ground to grow the immense quantities of seedling and herbaceous plants needful for the proper embellishment of the grounds; and to procure a continuous display of flowering plants during the continuance of the exhibition.

Mr. Craig then presented the following resolution, which was adopted:

RESOLVED, That the members of this committee, in their extended review of the grounds yesterday, were fully impressed with the fact that the preparations in the different departments are on an adequate, colossal scale, and they will go back to their towns and the different organizations they represent with the feeling that horticulture and floriculture will doubtless be represented on a scale never before attempted in the history of the world, in entire harmony with the magnitude and completeness of the other departments.

The following resolution was presented by Mr. Craig, and unanimously adopted:

RESOLVED, That this committee desires to extend hearty thanks to Chief Architect Burnham, Landscape Engineer Olmsted, and other heads of divisions for their influence in obtaining the wooded island for the purposes of horticulture and floriculture. Its many advantages are fully appreciated.

John Thorpe.

We are pleased to be able to present in this issue an excellent portrait of Mr. John Thorpe, Chief of the Floricultural Division of the Bureau of Horticulture of the World's Columbian Exposition, from a photograph taken last week.

Mr. Thorpe is so well known to our readers that any details regarding his life and work are hardly necessary, but to the younger men in the trade and those who have not been readers of the FLORIST since its inception, a few general details may be interesting at this time.

Mr. Thorpe was born in 1842, in England, where he received a thorough practical education in all the varied details of gardening, and while very young gave indication of the unusual ability which afterward made him one of the foremost men in the profession. He came to America in 1874 and his position ever since has been in the van of the wonderful advances made by horticulture on this continent in the last three decades.

To him we are indebted for the initial movement that resulted in the organization of the Society of American Florists, the society that has done so much for the advancement of the best interests of floriculture in America, and to his skill as a hybridizer and cross-fertilizer we are indebted for many of the plants that form a large share of the stock of the florists of America today, particularly among geraniums, chrysanthemums and carnations.

He was the first president of the Society of American Florists and has always been an earnest, faithful worker for its advancement.

And now he has been selected to direct the destinies of the Division of Floriculture of the great World's Fair of 1893, which position will enable him to give floriculture even a greater impetus than any he has yet been permitted to give it, by making the Division a revelation to the people of America and of the World, of the wonderful progress already made in floriculture, and the magnificent possibilities of the future. And that he will do it none can doubt.

A Banquet.

On Saturday evening the visitors were tendered a banquet by the Chicago Florist Club, at Kinsley's. The decorations were very handsome, the splendid lot of decorative plants contributed by Mr. E. Weinhoeber being most effectively placed, and some Duchess of Albany and American Beauty roses from Mr. O. P. Bassett were magnificent specimens. Occupying a place in front of the chairman was an arrangement of orchids brought from the east for the occasion by Mr. Manda that attracted universal admiration. Our illustration in this issue from a flash-light photograph by Taylor gives a general view of the banquet hall, with the party seated at the table.

As will be seen, the table was arranged in the form of a triangle, which is very advantageous from the fact that everyone at the table faces the others. The space in the center contained a handsome group of decorative plants, and the table itself was decorated with low, loosely arranged plateaus and bowls of roses connected by a tracery of ferns, while the inner edge of the table was draped with smilax. Handsome specimen palms stood in the corners of the hall and in the alcove showing in the center of the background of the picture. To the left from the chairman, whose face can just be seen from behind the central group of foliage, sits Mr. Thorpe, next Mr. Wm. Hamilton, then Mr. Allison, Mr. Chambers, Mr. Dean and Mr. Hill. At the extreme point of the triangle at the left can be seen Mr. Craig, with his chair tipped back a little, and just in front of him is Mr. Manda. Chief Samuels and Landscape Engineer Ullrich are to the right of the chairman, and are hidden by the palms. Superintendent Pettigrew, of Lincoln Park, sat next, and can be seen through the foliage; Mr. Cleveland is hidden by a palm, and at the extreme right is Mr. Vaughan, partly hidden by a vase of roses.

While the photograph is far from distinct, it is certainly very good when the circumstances under which it was taken are considered.

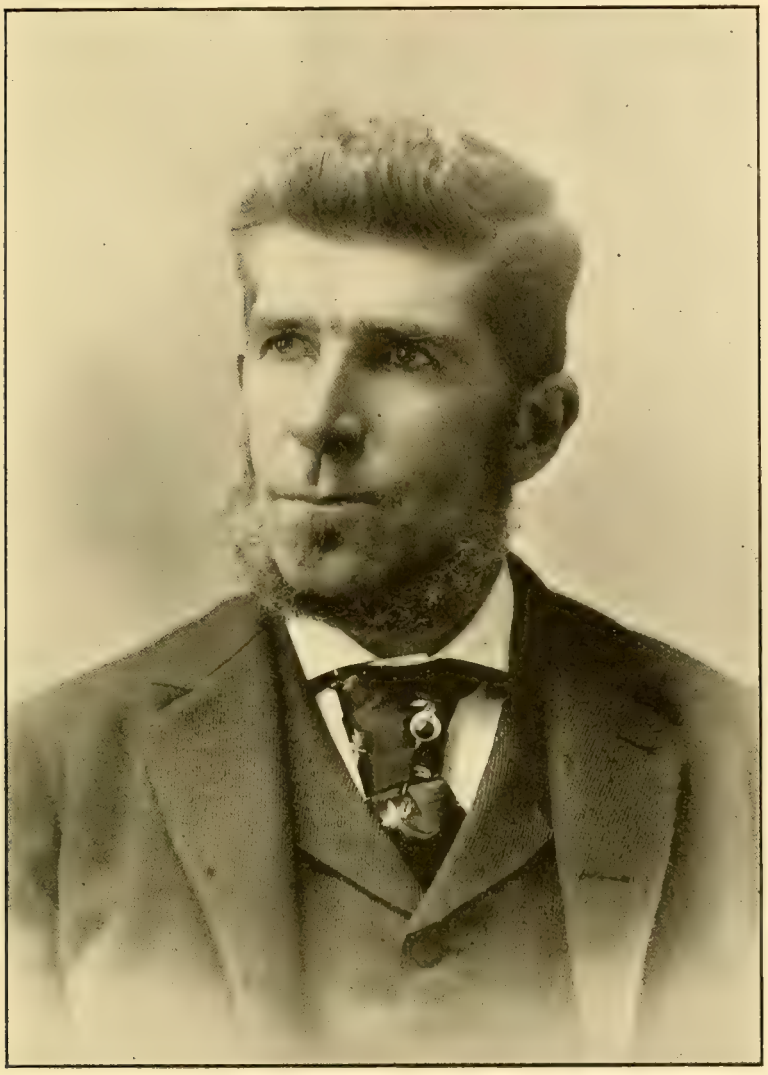
Following we give the various toasts and responses that followed the discussion of the menu, President Grant, of the Florist Club, presiding:

THE CHAIRMAN: Gentlemen, I propose a toast to "The Division of Floriculture of the World's Columbian Exposition," and will call upon its newly-appointed Chief, Mr. John Thorpe, to respond. [Applause.]

MR. THORPE: Gentlemen, it is worth fifty years of my life to be happy once, to be surrounded with this good feeling that has been displayed to me, and I cannot in words thank you enough for what you are doing for me at this moment.

Some eight years ago, in the Sherman House in this city, the Society of American Florists was born. I have been called the father of that society, and if that is so then my friend Mr. Hill is its mother. But however that may be, the society has come to be a power in the land, and now it has given new evidence of its influence by doing what it has for the Columbian Exposition, and I wish to heartily thank you, gentlemen, for what you have done for that great enterprise.

I feel the honor of my position, and think and feel it is the most important event of my life. I want to ask you all, and furthermore I demand from you all, to assist me in making the floricultural part of the World's Fair a success. It depends not only on me, but on all of



JOHN THORPE.

you. I do not care where you come from, I want you to give me all the assistance in your power. I want you to feel that you have just as much interest in making the World's Fair a success as I have. If you think of anything, let me know it; if you can assist me at any time, let me know it. I want you to feel you are just as much interested in what I am doing as I am. In this great undertaking we have no retrospects; we must be progressive. I want to surround myself with people who will say, "I will do for him all that I would do for myself." I want the whole support of all the florists in America. You will understand that it is a delicate position to occupy. You will understand that there are a great many battles to be fought, but I am sure, with your co-operation, that the floricultural department of the World's Fair will be one of the most magnificent successes that has ever been known in the world. [Applause.]

THE CHAIRMAN: Gentlemen, I will now ask you to join me in a toast to a society which has made this gathering possible; a society that has brought into existence our trade organizations in the various cities of the country; a society covering this whole continent with its members; a society as broad in its principles and in its character as any that exists on the face of the globe. Gentlemen, I ask you to join me in a toast to "The Society of American Florists," and I call upon Mr. James Dean, the president of that society, to respond to this sentiment.

MR. DEAN: Mr. President and friends, Mr. Thorpe has stolen a great deal of my thunder in responding to the toast, "The Division of Floriculture." He has told you that the Society of American Florists originated in Chicago eight years ago; that himself, Mr. Hunt, and our friend here, Mr. Hill, and perhaps thirty others formed that society. Most of you all know, in the eight years that have passed, how they have succeeded year by year and the advancement they have made. We are organized as teachers, practically speaking, in the advancement of floriculture. Our society covers, as Mr. Thorpe has told you, the United States and Canada, and we also have a number of members in Europe. We have been called here to assist Mr. Thorpe; he has called a committee of members of our society. We have met here and consulted. You no doubt have seen in the evening papers the result of our consultation and what we did at our meeting here. The principal thing, I think, that Mr. Thorpe wanted us here for was to urge the moving of the building so that we could have a beautiful floral display, for which the location of the building as previously arranged did not give sufficient opportunity. I think that we will succeed, or rather that Mr. Thorpe will succeed in having that building moved back, and if that is done we will have one of the most magnificent shows in front of the horticultural building that the world has ever seen. As Mr. Thorpe wisely remarks, he not only asks your assistance, but he commands it. You must assist Mr. Thorpe in his undertaking through thick and thin, and in no half-way manner. We in the East will assist him with all our might; you in the West, I am sure, will also. If we all do our best there is no doubt that we will have an exhibition here that will far surpass the Paris exposition. The exposition at Philadelphia during the centennial, although grand to our eyes, will be nothing in comparison to the exhibition which we shall hold here. There is no doubt that Mr. Thorpe will receive the financial backing that is necessary. And with Mr. Samuels as the Chief of Horticulture, gentlemen, there will be no failure. Mr. Samuels is certainly a very quiet gentleman, but that he possesses energy and enthusiasm for his work can be readily seen. We want to co-operate with Mr. Samuels, and do what we can to make the floral display a success at our Columbian Exposition. Gentlemen, I thank you for your attention. [Applause.]

THE CHAIRMAN: Gentlemen, I will now propose a toast to "The Bureau of Horticulture of the World's Fair." I want the Chief of this Bureau to understand that he is one of us and that we are willing to aid him in every possible way to make every other division of his bureau a success, as well as that of floriculture. I call on Mr. Samuels, the Chief of this Bureau, to respond to this toast.

MR. SAMUELS: Mr. President and gentlemen, it gives me very great pleasure to meet the representative florists of Chicago, and the most prominent men in the profession from other large cities of our continent. It is especially gratifying that we have met on this occasion to do honor to my warm friend and associate, Mr. John Thorpe. [Applause.] The fact that our visitors have laid aside their business to come hundreds of miles to advise and consult with him is an evidence that they have a deep interest in the success of the floricultural division of the horticultural department. It is upon you visitors and the local florists of Chicago that the great burden will fall of furnishing material for the greatest exposition, we hope, that the world has ever seen. Did not Mother Eve gather posies and delicate raiment, figuratively speaking, in the Garden of Eden? No doubt Eve reclined on floral beds of ease, and Father Adam surrounded the garden wall with a cordon of policemen to intimidate the kodak man You have promised your hearty co-operation, and we know that means success in advance; that your representative plants will be gathered from every country and every zone, and, what is better, hybrids, crosses and imported varieties, the result of your own toil, patience, intelligence and skill will be exhibited. You have looked over the grounds allotted to the horticultural department and seen the plans of the horticultural bureau, and we hope you are pleased with them, and when you return home we sincerely hope that you will carry with you as favorable an impression of the exposition as you have left with your friends. I thank you, gentlemen. [Applause.]

THE CHAIRMAN: Gentlemen, only a short time since, when we met at Toron

to, a modest gentleman appeared there, and announced that he had been commissioned to represent the World's Columbian Exposition, and invite the advice and confidence of the members of our national society regarding the floricultural division of the World's Fair, and he at once won the confidence of those with whom he came in contact. I refer to Mr. Allison, chief of the Bureau of Manufactures of the Fair, whom I am pleased to say we have with us to-night. I will now propose a toast to "The Greatest Exposition in the History of the World," and will ask Mr. Allison to respond.

MR. ALLISON: Mr. Chairman and gentlemen of the Chicago Florist Club and the visiting brethren from abroad, I can scarcely express to you my feelings of satisfaction for the honor conferred on me by an invitation to be present with you this evening to do honor to one that you all venerate. I refer to Mr. Thorpe. [Applause.] I am free to say that it did not take me long to discover that fact after I had landed in Toronto. I did not visit Toronto as a professional florist or a scientific botanist, or as knowing anything about horticulture, but I do confess that I now know the difference between a hollyhock and a sunflower, and my good friend has been talking to me so much since I came home, and so everlastingly drumming in my ears this idea of crossing, that I have got in my mind the idea that I can cross the hollyhock with the sunflower, and I have gone so far as to plant some seeds in my back yard, and I will tell you in the spring how I succeed. But, gentlemen, in all sincerity, I want to say to you it is one of the pleasures of my life to have become acquainted with, and although the acquaintance was short to have formed attachments for, the intelligent body of men composing that society of florists that I had the pleasure of meeting in Toronto. As regards the World's Fair, gentlemen, those of you who are here know all about it, as much, perhaps, as I do, although I think that there is no one who is not directly connected with the great work that has the faintest idea of its magnitude. They may go out and gaze over the ground, and see the vast preparations being made there in the various departments and the necessary work pertaining thereto, but there is no one, unless he is closely identified with it, that can have the remotest idea of its magnitude. I have had some experience with enterprises of this kind before in a small way, but never with a building which has been assigned to cover the department of manufactures. You gentlemen know the area of an acre of ground; multiply that one acre by 32, and you have the outline of a single building about to be constructed for manufactures; 32 acres of area under one vast roof; the main or central feature 387 feet in width by some 1,800 feet in length, covered by an arched roof of steel and glass. The entire width of the building is to be about 800 feet and including the galleries surrounding the interior we will have about 47 acres of exhibiting space. The other buildings will be equally as large proportionately for the purposes for which they are designed. There are a half a dozen new departments incorporated in this great work that have never been undertaken before, or any other similar work of the kind, notably transportation, electricity, appliances, etc. I have no doubt that before they get through with this great work they may, perhaps, cover the entire Washington and South Parks, as well as Jackson Park. All those that are strangers here I know will be at this great exposition; it will be a magnet so keen that you cannot remain away. I thank you, gentlemen, for your attention, and I thank you once again, Mr. Chairman, for the privilege of being here and paying my respects with you to your honored guests. [Applause.]

THE CHAIRMAN: Gentlemen, we have with us to-night the second president of the Society of American Florists. He lives in the City of Brotherly Love. And by the way, gentlemen, I want to say that that name is not misapplied. We have with us from that city, gentlemen, one who has not only been the honored president of our national society, but is the present executive head of the Florists' Club of Philadelphia; I refer to Mr. Craig. [Applause.] He is familiar with many of the details of the Centennial Exposition of 1876, from which we expect to learn many useful lessons in the conduct of this exposition, which we hope will excel anything in history. I will call upon Mr. Craig for his experience in connection with the horticultural department of the Centennial Exposition, and any lessons therefrom which may occur to him as useful to us.

MR. CRAIG: Mr. President and gentlemen, it certainly affords me very great pleasure to be present here to-night at a representative gathering of this character. I see around me earnest, thoughtful men who are identified with every branch of horticulture and floriculture, men who have made the city of Chicago famous in certain departments of outdoor decoration which are recognized to be unequaled anywhere on the face of the globe. Now, gentlemen, I only regret that in a gathering of this kind I can give you but very imperfect and incomplete impressions of that Centennial Exposition. I recollect that it was considered at that time the grandest exposition of human industry that had ever occurred in this country and perhaps in the world. We had there the product of the mine, the field and the factory, the delicate workmanship from China and Japan and the most intricate examples of mechanism that had been shown up to that day. All these things are matters of history; they can be referred to in the books of reference and they will be educational for many years to come. But I suppose now you are chiefly interested in the branch of horticulture as it was exemplified at that time. I regret to say that while it was in some respects very interesting it was inadequate and incomplete, and chiefly so because the work connected with it was started at too late a day, and therein lies the first lesson for the Columbian Exposition. I am glad, gentlemen, that you have gotten to work so early and under such favored auspices. You have gotten for your Chief a man who will go into this thing with his whole heart and his whole soul and there is a good deal of heart and soul in John Thorpe. [Loud applause.] I have no doubt it would have been perhaps better to have started some of the departments a year earlier, but it is well that it has started now and started so favorably. I recollect that the main regret among the workers at the Centennial Exposition at the last moment was that they had not begun two years before to gather from all parts of the world the examples of vegetation that they wanted to show. They regretted at the last moment that they had not sooner awakened to the possibilities of the occasion, but it was too late. We might have sent a capable man to Cuba to gather there thousands of examples of those wonderful crotons, 30, aye, 50 feet high, like shade trees. What a magnificent representation of vegetation Cuba could have had if the authorities had started a capable man down there 18 months in advance to gather those things together for that exposition. That must be done here. You have learned that lesson.

Another mistake that was made at the Centennial Exposition was in bringing the tree ferns from Australia. One of the first problems that struck the projectors of the exposition was how to get together plants of adequate size to fill that building. Plants such as we have here in this country were insignificant compared with the height of that building and the idea was conceived to send to Australia for tree ferns and there were some brought here, the largest 32 to 33 feet high. About 50 of these plants were brought, but unfortunately the vessel on which they were shipped was wrecked; it shipped salt water and the tree ferns were all destroyed except half a dozen. That half dozen plants grew well enough to show the directors of the Columbian Exposition the possibilities of these tree ferns, if they take it in time and see they are safely brought here. You can go to Australia, gentlemen, and get these trees 70 feet high. It is quite practicable to bring them here alive. I imported from Australia some tree ferns fifteen feet high. They arrived at my place about the middle of September and this last June I sold them in New York with heads eight to ten feet in diameter, just in two-thirds of a year. Now, gentlemen, you are in time for all these things, you have got your chance. If you will send out the proper man to bring these examples here you can show the people such plants as they have never before had an opportunity of seeing, even the practical horticulturists among you have not seen such examples as should be gathered together in that grand structure you are about to erect for the World's Fair.

The president has asked me to refer to special features that were of interest in the horticultural department. As I have said, many features were inadequate, but there was one there that was the feature of the show and that was the rhododendrons exhibited there by Mr. Waterer, of England. They covered a space of about 60 by 60 feet; it was one of the greatest attractions in the show. Instead of covering a space 60 by 60, you should cover perhaps ten times that amount with rhododendrons in this exposition. Such a treat they will be to the people that I cannot conceive of anything more magnificent. There was a very poor attempt at the Centennial Exposition at an aquatic display. Since that time aquatics have grown in favor and their culture has been advanced exceedingly. There is an opportunity there in the water around that exposition ground to make such an exhibition of aquatics as the world has never seen. Our hot summers here are admirably adapted to some varieties and such varieties as require heat your steam facilities for the exposition will afford ample supply.

Now, gentlemen, I am not going to detain you all night; there are a number of gentlemen here we want to hear from; but I cannot close without one thought. This exhibition has been started in the proper way. The gentlemen in charge of this fair have grasped the situation. We gathered that much in our extended tour of the grounds yesterday. They have not taken any narrow view of the situation, they have taken it in a broad way and we have started a song—a song, gentlemen, that you can all join in the chorus—



BANQUET TENDERED TO MR. JOHN THORPE AND THE COMMITTEE OF THE SOCIETY OF AMERICAN FLORISTS, BY THE CHICAGO FLORIST CLUB, SEPTEMBER 12.

the refrain of which will extend to the uttermost parts of the earth and will bring the people here from all quarters of the globe. In olden times it was said that all roads led to Rome; but in 1893 all roads will lead to Chicago. [Loud and continued applause.]

THE CHAIRMAN: Gentlemen, but a short time since it was the privilege of a great many members of the Chicago Florist Club to receive, with the other members of the Society of American Florists from all over the United States and Canada, the hospitality of our Canadian brethren. Gentlemen, we found that over the line there were as warm hearts as ever beat. I want to say, gentlemen, that when we crossed the line, at the north of us we found another city of brotherly love. I know that you will join me most heartily in a toast to the florists of Canada, and I will ask Mr. John Chambers to respond.

MR. CHAMBERS: Mr. President and gentlemen, I thank you heartily on behalf of the florists of Canada. I feel a little diffident in getting up to make a speech to you, for when I came into the building I was introduced to one of the Chicago florists as a foreigner. Gentlemen, do I look like a foreigner? [Cries of no, no.] If I look like one I do not feel like one among my friends here; I can assure you that I feel perfectly at home.

In speaking of your World's Fair I may say that when the exposition was first talked of on the continent of America I really thought that Chicago had a good deal of gall, if I may put in in that way, to think of holding the World's Fair here. I thought New York without doubt was the biggest city on this continent, as I had seen New York at that time, but, gentlemen, I must confess I had not seen Chicago. I will say this: Having seen your city, seen its magnificent buildings, seen its grand streets and its wonderful parks, that I really wonder now that New York ever had the audacity to think of holding the World's Fair there. [Laughter.] I remember some years ago, gentlemen, seeing probably what was then one of the finest horticultural exhibits ever held in the world. It was called an International exhibit and it was held in London, England, in 1866. It was then thought to be one of the largest and finest exhibits of horticultural products, and no doubt it was at that time the finest that had ever been gathered together. That building, if I remember right, or as I have read since, covered some two acres and a half of land, and that exhibition was magnificent. But when you compare two acres and a half with the magnificent building to be erected by your people in Chicago, which covers about eight acres of land, it sinks into insignificance. Not only that, the surroundings of the grounds to be decorated by the floricultural department is to consist of some 40 acres. You have a task before you. You have not only those grounds, but as I understood in going over them with Mr. Samuels and Mr. Thorpe, that it is the the intention of the horticultural department to decorate and embellish the state buildings. I tell you, gentlemen, it is a work of magnitude; you will have to look to your laurels. I would like to see it a success and it will no doubt be one. I may say as far as I am concerned that for the country from which I come, Canada, I am sure the people will do their utmost to assist you and they are enthusiastic, I believe almost as much so as the Americans in regard to the World's Fair. [Applause.] It is one thing we feel, gentlemen, and that is that this is not going to be a Chicago fair, it is not going to be an American fair, but a fair for the whole of the world, as the whole of the world will be represented. I may say that a great many of the American people have a very vague idea of what Canada is like. Gentlemen, we have a great country, we have a magnificent country, and I think you will find that when our display has been made in the horticultural department and in other departments that we are not so far behind as a great many think us to be. While we perhaps cannot show such magnificent parks, cannot show such magnificent buildings, there are some good things in Canada. There is another thing, gentlemen; I am not going to speak for the whole of Europe, I am going to speak for that little country whose flag I live under, that is England. I think you will find that the British Empire will take hold and help to make the World's Fair one of the greatest successes ever known. When a city like Chicago, which has the ground and the dimensions it has, takes hold of a thing, its success is assured. I thank you for the toast and I shall not forget when I return to Canada to acquaint them with the royal reception I have received here and I hope, gentlemen, it will not be the last time I shall have the pleasure of meeting you. [Applause.]

THE CHAIRMAN: Gentlemen, we have had speeches from the heads of departments of the Fair, from visitors and others, and I want to call now upon a gentleman we have with us tonight, whose work will be in a large degree a foundation for these Chiefs to build upon, and without this foundation their work would amount to but very little, able men as they are. I desire, gentlemen, to call upon Mr. R. Ullrich, the engineer in the landscape architect's department, to respond to the toast "Landscape Art in America."

MR. ULLRICH: Gentlemen, let me thank you for your kind reception. I always took great interest in this society and I am not suprised to see it a success. [Mr. Ullrich spoke in such a low tone of voice that the stenographer was unable to catch his further remarks.]

THE CHAIRMAN: I am sorry we did not have more from Mr. Ullrich. If there are any here that do not know what he has done, I want to say that he has accomplished a most wonderful work, especially upon the Pacific coast, where he has done some work that cannot be excelled in its line. I am sorry that he did not give us a more extended response.

[The Chairman here called on Mr Chambers for a song, who in turn invited Mr. J. D. Coulthard, of Toronto, who sang "The Warrior Bold" and on encore recited a historic address entitled "Spartacus".]

THE CHAIRMAN: Gentlemen, I ask Mr. E. G. Hill, of Richmond, Indiana, to respond to the sentiment, "Foreign Horticulturists at the Fair."

MR. HILL: Mr. Chairman and gentlemen. We know that Chicago has got to be the Mecca of the floriculturists of this country and I opine and believe that the horticulturists and the nurserymen and seedsmen of Europe will also find their footsteps wending this way in 1893. Chicago is a wonderful city, as Mr. Chambers has told you; wonderful in a great many ways. There have been some wonderful things accomplished here in Chicago that every florist in this country should be proud of. Mr. Thorpe very modestly referred to the part he took in the organization of the Society of American Florists. He need not be at all modest about that, we all grant that he was the Father of that Society. We all know that Mr Thorpe is fruitful in great things; fruitful in giving us ideas and cultural directions regarding plants, and it is out of the great breadth of his noble brain, that the Society of American Florists was born, and many gentlemen, not mentioning myself, helped to rear the child after it was born. But I am digressing somewhat. I was going to say that Chicago had produced something else. It has produced a paper that has been a wonderful benefit to the florists of this country, in that it has spread broadcast throughout this land, knowledge of plants and of floriculture. It has, in fact, performed a great mission and that paper had its being here in the city of Chicago. I think that if the Society of American Florists and this great paper that we are all proud of, will take hold of this matter and represent to the horticulturists of Europe, Japan and China, the great things that are being prepared here for this exhibit floriculturally and horticulturally, that there will be no trouble in getting a magnificent exhibit from over the waters; in fact it has been intimated by a gentleman who knows, that the bulb growers of Holland will be here with millions of their bulbs and they will be seen in all their beauty on the grounds of Jackson Park. We want to see the men of France here with their new plants, we want to see the men of England with their plants, and I think it should be the mission of the Society of American Florists acting in conjunction with the officers of the World's Columbian Exposition to induce those men to make exhibits here. I think if we could introduce to the horticulturists of Europe these genial gentlemen who are at the head of the undertaking; if we could have them shake hands with Mr. Allison and our friend Mr. Samuels and Uncle John, they would all come *en masse* and bring everything they have over there with them. It has got so very late and I have so many thoughts crowding in upon my mind, that I think I had better give way, as "Blue Jeans" used to say, to some more able man.

[Mr. Wm. Hamilton, Superintendent of the Allegheny City Parks here responded to the sentiment, "Large decorative plants at the Fair." But as he spoke in a low tone the stenographer caught only a few sentences. He named owners of large plants who would contribute same to the fair, mentioning specially, Messrs H. H. Hunnewell of Wellesley, Mass., Geo. W. Childs of Philadelphia and a Mr. Brown of St. Louis, and spoke enthusiastically of the gigantic specimens that could be brought from their native wilds.]

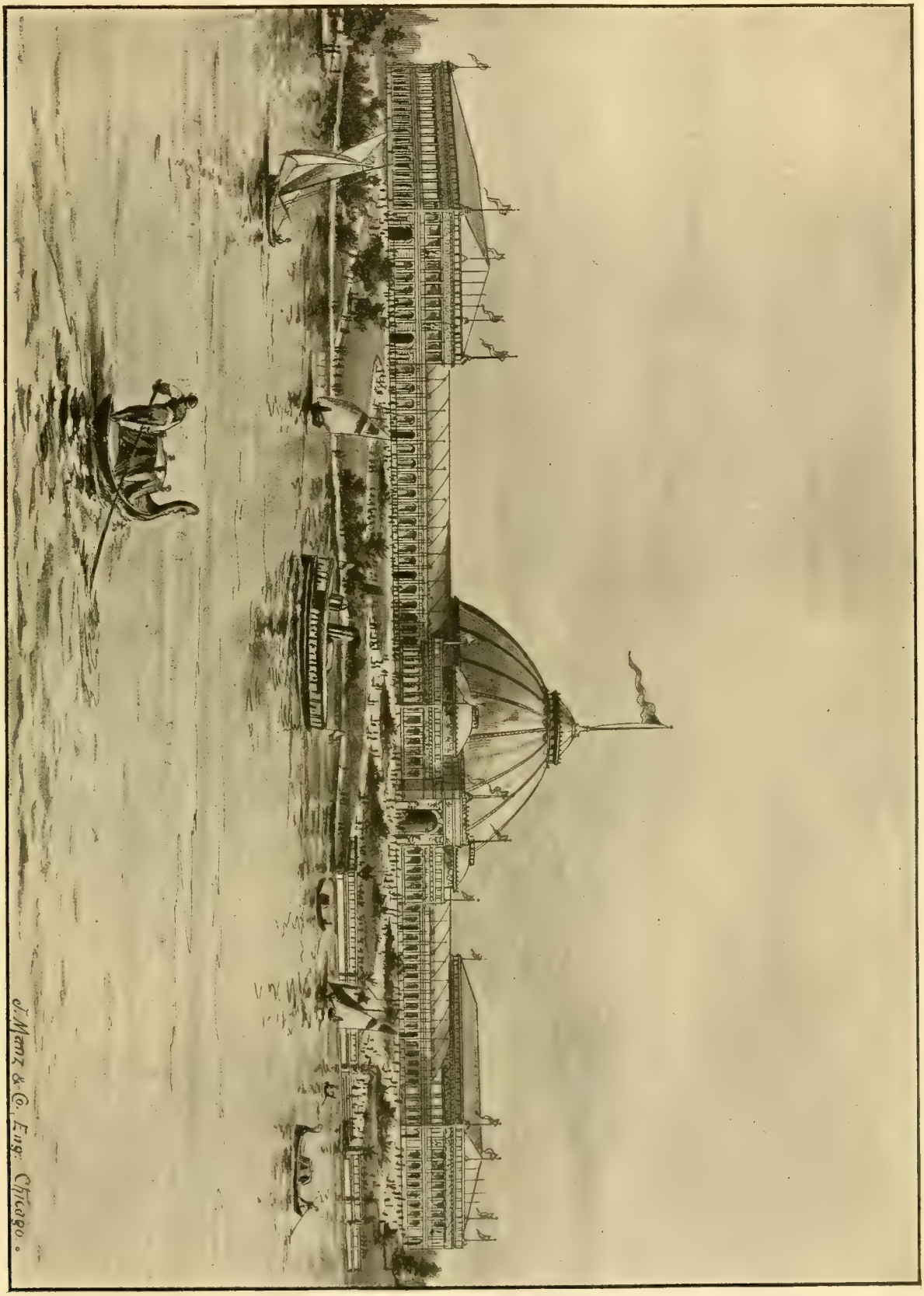
THE CHAIRMAN: Gentlemen, we have with us tonight a distinguished member of the profession, Mr. Manda, of the firm of Pitcher & Manda. There will be a great many important special features at the Fair. Mr. Manda is nothing if not original, and with that knowledge I have assigned him the sentiment "Special Features for the Fair" and will ask him to respond.

MR. MANDA: Mr. President and gentlemen present. The subject assigned to me has been partly discussed by the speakers, but there may be a little left yet. You know that water finds its level and if you look into history you will find that everything from the beginning of the world up to now has been a struggle and it has always resulted in the survival of the fittest. When the matter was broached about celebrating the 400th anniversary of the discovery of America, there were several cities, a few towns and some villages that were aspirants for the honors of holding such an exhibition. It came that the city most fitted and most worthy of such an honor was selected as the site of the exposition. The next thing was the division of the several departments. It came to the very important department of horticulture and of course it had to be filled by a man that was eminently fitted for the position, and you found that man in Mr. Samuels. The next thing was the branch of floriculture, and then the best man loomed up from the East in the person of Mr. John Thorpe. Coming to the special features; they should be worthy of that exposition, which is of such magnitude, that until I received your circulars I had a very faint idea myself what it was going to be. There is an old saying that "Charity begins at home". If you want to make a display worthy of the Columbian Exposition, I would advise you to make a gathering of our native plants; make such a gathering that it will be superior to any other collection ever made, and present it down in your spacious grounds. I mean native plants that grow from Maine to Florida and from New Jersey to California. In regard to aquatic plants, you have the water and you need not go out of the limits of your city to look for the plants; for, looking over your parks I must say that I never saw such a splendid exhibition of water lilies before. Another very interesting group, which is always admired, I would suggest is a group of economic plants. Everybody wants to know what we eat, what we drink, and what we take for medicine. Today we have some 500 species, and before the World's Fair closes its doors we will think we cannot have too many. Gentlemen I thank you for your patience and interest.

THE CHAIRMAN: We have heard from each one of our visitors and I am sure you have very thoroughly enjoyed their remarks. We will now listen to some of our home talent. We have some men here in Chicago that can talk a little; I believe you heard of them down in Washington some time ago. We have also in Chicago some horticulturists that we feel we owe a great debt to. In Chicago nothing has been progressing more rapidly for the last two or three decades, than gardening. You recollect the old saying of Bacon that "Men come to build stately sooner than to garden finely." Chicago has reached that stage where it has stately buildings, and is now preparing to garden finely. I will propose a toast to the Chicago horticulturists and will call upon Mr. J. C. Vaughan to respond.

MR. VAUGHAN: I am glad that you called on me to say something of Chicago horticulture, for if you had simply given me the word Chicago I should not have been able to have touched it at all. I may surprise the gentlemen here, but there is an old saying that has been running in my head tonight and it goes about like this: "Let him not boast who puts his armor on, but rather he that takes it off the battle won." That battle, as Mr. Chambers has said to you is about to come, and if it comes to anyone I think it comes on many of us local people. Gentlemen, I look upon this evening as the beginning of the horticultural work, I cannot consider it as anything else. There has been strife, there has been sectional feeling, there has been long delay, but, gentlemen, I feel I voice the sentiments of the local people when I say they are ready to begin now and forget. I believe that I state the fact when I say as Mr. Thorpe has said, that the display in this department, this grand show, is not to be a retrospective one. We are not going back to what has been up to this time in the year past, and I feel more assured of that when a man like Mr. James Dean, the most conservative representative of the best element in New York, that great commercial center of our trade, comes before you and makes the speech that he has made tonight. Gentlemen, this is not an idle boast, coming from a conservative man like Mr. James Dean, your president. I say further, that when a man of the standing of Mr. Craig of Philadelphia, one of the foremost cities in floriculture in America, if not the foremost, speaks in the enthusiastic way he did here tonight predicting the success of this Fair it shows that the East is with us now.

I am not, as I said intending to say anything about the greatness of Chicago; Chicago men have spoken about that enough, although they did not dare to tell half what they thought. There has been an intimation that this may be a Chicago fair; I do not believe it, I think it will be an International fair, where Chicago is the host. I speak now horticulturally and I believe I can speak generally



THE HORTICULTURAL BUILDING FOR THE WORLD'S COLUMBIAN EXPOSITION OF 1893.

as well that Chicago is the host in this fair and you will see that she will be the host and it will be her pride and glory to see that her visitors are given the front ranks.

Mr. Paul Hull, of the Department of Promotion and Publicity, responded on behalf of "The Press," and furnished much entertainment by relating several very humorous stories in an inimitable way; Mr. M. F. Gallagher responded for "The retail florists," Messrs. Wm. Hamilton and Edgar Sanders favored the company with songs, and Mr. Craig sang "Annie Laurie". Then the whole party rose and sung the Chicago Florist Club's song, and they made the hall ring. The evening's entertainment closed by all joining hands and singing "Auld Lang Syne," the visitors led by Mr. Manda, giving three rousing cheers for their entertainers. All present voted the evening a most enjoyable one.

Horticultural Building at the World's Fair.

Sometime since we presented an engraving of the Horticultural Building for the World's Columbian Exposition, the same being a reproduction of the architect's drawing. We are now pleased to be able to present a fine half-tone plate, showing much better perspective and making a better picture. This beautiful building, whose magnitude may be understood

from the fact that it is 1,000 feet long, will be the home of horticulture at the great Exposition. It is a grand building—all that the horticulturists of America could ask—and there is no question that the Division of Floriculture will receive the proportion of space its importance as an exhibition feature merits.

Cemetery Superintendents Meet.

If anyone has an idea that cemetery superintendents are a melancholy set of men they would have had this idea immediately removed had they attended the fifth annual convention of the Association of American Cemetery Superintendents, held at Chicago last week. While dignified and earnest in their work the members of this association are as genial a lot of men as one would wish to meet and there was no lack of wit and repartee in the discussions of the various subjects brought before the association.

There were about seventy members in attendance and as the total membership is 123 it will be seen that the proportion in attendance was very large.

President Barker's annual address was an able effort. He indicated the good results that have attended the work of the association, suggested many reforms and improvements and recommended still further directions in which effective and valuable work might be done. It was well received and Mr. Barker's work for the association and his eminent abilities as a presiding officer were afterward recognized by re-electing him for another term.

The programme of essays and discussions was carried out as printed with but two exceptions. Following is a list of the essays presented, each being read by the author and afterward discussed by various members:

"On the Boston Meeting," by C. W. Hamill, "Mt. Olivet," Baltimore; Perpetual Care of Lots," by J. W. Lovering, "Mt. Auburn," Boston, and T. McCarthy, "Swan Point," Providence; "Should Cemeteries present more of Nature and less of Art?" by G. H. Scott, "Rose Hill," Chicago; "Cemeteries Historically Considered," by Charles Nichols, "Fairmount," Newark, N. J.; "The Business Management of Cemeteries," by F. W. Higgins, "Woodmere," Detroit.

As showing the scope of the work of the association and how large a part of the work of cemetery superintendents comes within the bounds of horticulture we append a list of the questions submitted for discussion. Had one dropped in at certain times during the meeting, without knowing the name of the association, he would have been speedily convinced that he had entered the meeting of some leading horticultural society. Here is the list: How to secure a dark velvet lawn and when obtained how to preserve it? What substitutes can be used for lawns? Lawns under trees; What lawn mowers are best? How can we get rid of plaintain and chickweed? What fertilizers are best? System of book-keeping for care of lots; Instruments needed in laying out a cemetery. Best tent to cover grave in wet weather; Hitching posts—design and location. The best size for burial lots; Corners for lots and sections; What plants and shrubs will do well in a climate varying in temperature from 45 to 105 degrees? Is fall the best time for transplanting trees and shrubs?

It is indeed gratifying to know that horticulture occupies so large a share of the attention of those in whose hands the care of cemeteries rests, and that every year cemeteries are presenting "more of nature and less of art."

No less than 19 new applications for membership were received at the meeting and as all were elected, 19 new names were added to the membership roll.

Officers for the ensuing year were elected as follows: President, J. G. Barker, "Forest Hills," Boston; Vice-President, Wm. Salway, "Spring Grove," Cincinnati; Secretary and Treasurer, Frank Higgins, "Woodmere," Detroit.

The next convention will be held at Baltimore at about the same dates that the Society of American Florists meets in Washington, the exact days being left to the discretion of the executive committee.

But business was not the only feature of the convention. While business was strictly attended to in the mornings, the afternoons were devoted to pleasure, and the local superintendents entertained right royally.

On Wednesday afternoon, piloted by Superintendent Shepard of "Oakwoods," the visitors proceeded to the beginning of Drexel Boulevard, where park phætons were in waiting for the party. Then they were given a ride through the South Park system, stopping to view the work going on at the World's Fair site, and then proceeding to "Oakwoods," where after a ramble through the grounds they were invited to a splendid lunch.

On Thursday afternoon Superintendent Scott entertained the convention in much the same way at "Rose Hill," the party going by rail, and on Friday Superintendent Simonds of Graceland extended the hospitalities of the management of that cemetery. And after a view of the grounds and lunch, park phætons conveyed the party to Lincoln Park. It was already dark, but the park is a beautiful sight at night, lighted as it is by a system of electric lights, and the party much enjoyed a view of the famed electric fountain in full play.

All heartily enjoyed themselves and the Chicago convention of the association will undoubtedly be long remembered by all who were so fortunate as to participate.

We must not omit to mention the fact that Mr. Charles Nichols, of "Fairmount," Newark, N. J., the "father" of the society, was present, and rejoiced in the present splendid proportions and strength of the "infant" he and a few other enthusiastic men brought into existence at Cincinnati in 1887.

The local committee were the recipients of many expressions of gratification from the membership at the cordial reception accorded, and they were certainly entitled to all the credit given them. But what Simonds, Scott and Shepard can't do when they get their three S's together wouldn't be worth attempting.

Convention Thoughts.

It is to be regretted that so many valuable papers are passed over without discussion. It is certainly not an unqualified compliment to the author of an essay to give him a vote of thanks, coupled with the assertion that his dissertation is "so complete and covers the ground so well that it needs no discussion."

Many of the Toronto papers bore evidence of careful preparation, and their literary as well as their practical value was fully equal to those presented at any previous meeting. Much valuable time had evidently been given them by their authors, who in many cases are very busy men and their time is precious.

To pass them by as was done at Toronto and at Boston is almost a discourtesy, and will be but poor encouragement to effort on the part of future essayists. If the subjects selected for presentation at these meetings are such as do not awaken any interest in our members, why do they not suggest better ones? The executive committee will surely thank any of the members for suggestions as to matters worthy of discussion, or for any plan whereby an interchange of opinion in our meetings may be encouraged.

Some complaint has been heard regarding the delay in opening the sessions, the meetings being called to order sometimes a half hour or nearly a whole hour after the advertised time. The remedy for this lies with the members individually. At the Toronto convention there was not a session when the president and secretary, as well as the essayist, were not on hand ready to proceed at the advertised hour. But where was the audience? To call upon an essayist to stand up and read a paper to an empty hall is not exactly courteous or agreeable, but the chairman must do that or else wait until the audience materializes.

State delegations do not take that interest in the election of their state vice-presidents which they should. In fact, very few of them take the trouble to elect anyone, but leave it to the president to appoint him. The result is that in many cases gentlemen are given the honor who take not the least interest in the society's welfare, who do not attend the meetings regularly, and who cannot be induced to give a moment of their time to any work which the position entails. It should be the pride of every state to be represented in the society by as large and influential a delegation as possible, and there is no way to accomplish this result so well as to elect a vice president who can and will make some effort to have his own state make as good a showing as possible.

W. J. S.

New Plants in Canada.

In justice to our Canadian brethren let me note a few of the new plants raised by them and brought to our notice at the convention. Long before the convention I placed myself in correspondence with some of the prominent florists there regarding any new plants they might have among them and asked that samples of the plants together with descriptions of them be brought to the Queen's Hotel and submitted to the Committee on Nomenclature on Monday, the day preceeding the opening of the convention and this they cheerfully did.

And to Mr. J. H. Dunlop I especially tender my thanks, for he promptly, fully and cordially answered my every question about new plants, hotel and railroad arrangements, etc., in fact did everything he possibly could to aid us before we went to Toronto and help us after we got there.

I regret exceedingly that I have been unable to get any information about the new plants that were sent to Toronto to be grown for trial or comparison; to my letters regarding them no answers have ever been received.

ROSE TORONTO is the golden-flowered form of Perle des Jardins raised and grown by Mr. J. H. Dunlop of Toronto, and which was seen at home growing and blooming and in fine condition last January by the executive committee of the S. A. F., who admired it and eulogised it unstintedly. "The habit is dwarfer than that of the Perle, but the growth is very robust and almost always there is only one blossom to the shoot; flowers large, deep golden yellow deepening in the



SPECIMEN PLANT OF LIVISTONA CHINENSIS (LATANIA BORBONICA.)

center in open flowers to soft rosy pink; foliage distinct from Perle, larger and deep blood red on youngest wood like Sunset. It is a profuse bloomer and in winter almost free from bull heads."

A TRICOLOR-STRIPED VARIEGATED LEAVED CANNA raised by Mr. McPherson of Toronto and now handled by Mr. Gilchrist of West Toronto Junction, appears to be a very promising variety. As all of the plants that we saw were greenhouse grown their variegation was paler than would have been the case in outdoor specimens. Nevertheless it looks well and promises to be better than the variegated Warscewiczii or any other variegated leaved canna yet on the market.

COTYLEDON (ECHEVERIA) JOHN COTTERILL, a beautiful and highly tricolor-variegated dwarf form raised by Cotterill Brothers, Toronto. Their description: "In growth similar to E. secunda glauca, the main stem is delicate pink, the leaves have a pale green center varying from white and pink to a deep carmine at the edge." Wherever mosaic or carpet bedding is in vogue or succulents are used in flower gardening in any way this little beauty must find a place.

MANTON'S SEEDLING ECHEVERIA is a glaucous green variety raised in 1881 by Manton Brothers of Toronto, from seed of E. metallica.

MANTON'S FERN.—This is a seedling fern which originated with Manton Brothers, but its parentage is unknown. It is an elegant fern. The raisers' description: "Habit like Pteris tremula and appears to have some of the characteristics of P. serrulata; fronds 2 to 3 feet long, branched and divided, the ends of the pinnæ running out long like those of P. serrulata and sometimes crested; a good grower."

Specimen Livistona Chinensis.

Livistona chinensis (synonyms: Livistona mauritiana and Latania borbonica.) The last named synonym is the more popular name. How valuable this palm is for decorative purposes is patent to all engaged in our business. Perhaps no man has done as much good in distributing it as Mr. Wm. R. Smith, of Washington. He told me that 28 years ago he sent among other plants about a dozen seedlings of this from 2-inch pots to a gentleman in the south who was aspiring to garden decoration. The plants arrived safely, as acknowledged by letter, but the gentleman wanted to know "what the deuce did you send corn for?" Some of those plants are to-day 35 feet high and as much in diameter.

The illustration shows a grand specimen of this noble palm exhibited at the last spring show in New York. It was grown by that clever plantsman, Gus Bennett, gardener to W. Brown, Esq., of Flatbush. It is safe to state that no more perfect specimen was ever exhibited. The height was 14 feet, the diameter the same, and the plant had twenty-seven perfect leaves.

JOHN THORPE.

Greenhouse Rhododendrons.

Under this heading are now included a large number of species and varieties, some of these being of Indian origin, while many others are the result of hybridization. Considerable variety in coloring is also found among them, ranging from bright crimson through the intervening shades of red and pink to pure white and from orange to pale yellow.

The culture of Indian rhododendrons is not specially difficult, as most of them will flourish under the same treatment as azaleas, a similar soil being usually favorable for their growth, while a temperature of 45° to 55° will prove satisfactory for most of the species, though during the summer the rhododendrons will be benefitted by a little more shade than is essential for the azaleas.

Propagation is usually effected either by cuttings, by grafting, or by means of seeds, the first method being probably the most used.

The cuttings should be made from firm young growths, and generally root sooner if taken off with a heel of the old wood attached, the treatment necessary being the same as that given to azalea cuttings.

Among the notably good sorts is R. Countess of Haddington, a hybrid variety of strong growth and large foliage, and the flowers of which measure from three to four inches in diameter, and are bluish white in color.

R. ciliatum is another pretty species, though much smaller in growth than the preceding, and produces clusters of four to five light pink flowers. This species is said to be hardy, but perhaps may not be so north of Washington.

R. Edgeworthii is another fine old sort, though possibly a little more difficult to increase by means of cuttings than are some of its relatives. The leaves of this species are quite wooly on the under side and of medium size, while the flowers are nearly four inches in diameter, almost white and very fragrant.

R. Jasmiflorum is also a good species, having comparatively small foliage, and producing its flowers in umbels or trusses containing a dozen or more blossoms, the latter being white and quite fragrant.

R. Javanicum is of a somewhat different type to the preceding, and has dark green foliage that is almost smooth, while its flowers are bright orange, and produced in large clusters. This species is, however, somewhat straggling in growth and rather slow, but the color is such as to recommend it.

There are also several different forms of R. Javanicum, some of which are much better in habit and in color than the others.

R. Prince of Wales is a fine hybrid variety, of which R. javanicum is one of the parents, and from which R. Prince of Wales has doubtless secured its rich orange color. The latter has the larger flowers of the two, though, and is certainly an improvement.

Several other members of the royal household of Great Britain have been complimented in the naming of hybrid rhododendrons, among these being R. Princess Royal, a handsome free flowering sort, with deep rose-colored flowers; R. Princess Helena, which bears long, tubular light pink blossoms that are sometimes streaked with darker coloring, and R. Princess Alice, the latter having large white flowers that are flushed with pink, and also very fragrant. All of this royal group, so to speak, are remarkably pretty varieties, and well worth more extended cultivation.

Of the highly colored species, R. Lobbii is probably the most striking, the flowers of this being bright crimson in color and borne in good-sized trusses.

Probably one of the most peculiar members of this family is R. Dalhousiæ, from the fact that in its native country it is found as an epiphyte, growing on the trunk of a tree, the latter usually being an oak. R. Dalhousiæ bears quite large, fragrant flowers of bluish white tint, and the plant is inclined to be straggling in habit.

In conclusion, it may be stated that the rhododendrons in general are not specially rapid growers, and it is therefore well not to expect too much of them in that respect, but the fact remains that they are a remarkably handsome family of shrubs, and deserve a much wider distribution than has thus far been accorded them.

W. H. TAPLIN.

Holmesburg, Pa.

Canna Madame Crozy.

Were we asked to award a prize to the best new plant which has been offered to the florist trade in recent months, this triumph of M. Crozy would doubtless win the cup. Its decided advance over varieties of its own class both in size of flower spike and individual blooms is one of the most marked ever made in any class of plants. The lustrous vermillion color of petals bordered with brown yellow makes up the finest canna flower yet seen. In our illustration the flower is seen at less than two-thirds natural size. The Star of '91 probably comes nearest to it in size of spike and individual flowers, but the heads are not quite as large, the flowers more ragged and the color a duller red, unevenly distributed on the petals. Madame Crozy grows about fifteen inches taller than the Star of '91 under the same conditions. Canna Thos. S. Ware very closely resembles Star of '91.

Boston

There are indications of an improvement in the cut-flower trade. A long spell of rainy weather worked disaster among the white asters and other out-door flowers, causing a scarcity so that the demand is heard from all quarters for white asters, carnations, etc.

Roses, too, if they are good for anything, are eagerly snatched up, but there are very few decent ones to be had. It is amusing to note the altered bearing of store men, who are wont to pose in dignified unconcern behind their counters, graciously permitting the growers to come and solicit their favors, but who just now find it necessary to get out on the street by six o'clock in the morning and indulge in a neck and neck race with the street fakirs in order to catch the box men and their precious load.

At present there is a large amount of funeral design work being done. Hydrangea paniculata helps out for ground work and there are a few white Japan lilies coming in which are also useful. Lily of the valley is abundant and of good quality. Gladioluses have been very plenty and remarkably good, but are now about finished. Smilax, asparagus and adiantums are to be had in any quantity. The native pink pond lilies are all through for this season, but there are still some of the exotic varieties offered.

Chrysanthemums in this vicinity are looking well and indications point to a grand exhibition for the first week in November. In addition to the liberal premiums of the Mass. Horticultural Society there are also offered by the Gardeners' and Florists' Club of Boston two prizes of $75 and $50 for ten vases of chrysanthemums of ten named varieties, ten long stemmed blooms of one variety in each vase. These prizes, likewise all the prizes offered by the Horticultural Society, are open to general competition.

Geo. Stevenson, who has been foreman for C. J. Power at South Framingham, has left that place to take charge of the greenhouses of the late W. S. McGregor, at Winchester, which it is reported he has leased.

The old Greenlaw estate at South Braintree, which has been run by Thos. Waterworth for some time, has been sold and the greenhouse will be demolished. After a few more establishments are abandoned and pulled down there will be a living chance for those who remain.

ED. HATCH'S ANNUAL EPISODE.

Ed. Hatch has a cottage down at Cedar Point, Scituate, which he calls "The Haven" and to which he is in the custom of inviting a dozen or so of his florist friends on "Labor Day" each year to enjoy the sea breezes and partake of the luscious clams, lobsters and other good things which the neighborhood affords. There is only one drawback to perfect happiness and that is that the cottage is not large enough to accommodate over fifteen and Ned's friends number a good many times fifteen, especially when invitations are in order. He is now considering the advisability of acting upon the suggestion once made to him by brother Smith, of Washington, that is, to take out the end of the cottage towards the water and move it out to sea, where he would find abundance of space to keep on extending until there was room for everybody.

When Labor Day dawned however it brought dismay to the hearts of those who had been fortunate enough to receive invitations to this year's entertainment, for the rain came down in torrents, but for those who appreciated the compliment of having been included in the select few the storm had no terrors, and of these there were nine. The result showed their good judgment, for by unanimous vote it was declared the best time they had ever had. The stay-aways who were frightened by a little water have had to take an unmerciful guying ever since. Among their number was no less a personage than the worthy president of the S. A. F., whose antipathy to water on this occasion is unaccountable.

W. J. S.

Philadelphia.

Quite a number of florists from other cities have been in town the past week, looking up plants for the coming season. The florists of this city have the largest collection of well-grown foliage plants in this country, and in the fall of the year it is a general Mecca for the principal dealers in this stock. Messrs. Theo. Roehrs, Charles Dards and Mr. Burns, of New York, and Mr. Albert Small, of Washington, and others were among the visitors.

Mr. A. Hall, of Tenth and Locust streets, who has been very sick with typhoid fever and confined to the house for the past two months, is about again, and has opened his store, which was closed during his illness.

The greenhouse establishment lately conducted by the Furgesson Bros., and at one time one of the best in Philadelphia, was recently sold by the sheriff to satisfy the mortgages on it. It will no doubt soon be converted into building lots.

Mr. Robert Craig is absent in Chicago,



CANNA MADAME CROZY.

where he went to attend a meeting of the advisory committee of the S. A. F. appointed at Toronto to assist Mr. Thorpe.

Quite a lot of building is still going on. H. A. Dreer has erected a large range of houses to accommodate his ever increasing stock of palms and ferns. They are very substantial buildings, and should last a long time.

J. W. Colflesh, who makes a specialty of Jacques for early spring cutting, has closed in another bed. He also makes a success of carnations, and his benches of this flower when in full bloom are a sight.

A. M. Lawson, Wissahickon Heights, has erected two houses about 80x20. This is a new place and seems very favorably located.

Jacob Becker found in looking over his stock of chrysanthemums that he could not house them as well as he would like to and do justice to his other stock, so another house 160x18 is nearly under roof. There are few more careful growers than Mr. Becker, whose stock is always salable from the fact that he gives his stock plenty of room.

John Burton has also added a house for Asparagus plumosa. He is very successful with this plant, and finds a ready sale for all he can cut.

In a recent description of a New York wedding, in one of the newspapers, mention is made of yellow "Galliard" roses as being very beautiful and used in quantity. Wonder what rose this is? Perhaps some of our New York brethren can enlighten us.

Edwin Lonsdale is very partial to summer annuals, and has quite a collection, among them being some fine dwarf zinnias of all shades of color, from pure white to dark red. He has also a fine collection of cannas, which are now in a wealth of bloom.

In the ten-pin match September 10, the team of stay-at-homes defeated the team that went to Toronto by 26 pins. Capt. Longinette, of the stay-at-homes, is justly proud of his team's high rolling and it goes to prove that there are more than six good men in the club who know how to roll ten-pins.

Isaac Kennedy, a popular member of the club, won a beautiful gold medal worth $35 for putting the shot at the games of the "Bank Clerks' Athletic Association," held on Saturday in this city. Isaac's put was 37 feet 6 inches.

Trade seems to be increasing quite rapidly, and really good roses have been scarce the past week. Cosmos has made its appearance, and it will not be long before the "mums" will make their presence felt.

X.

Toronto.

We are still alive here in Toronto and have as far as I know all recovered from the effects of the work incidental to the great convention. I trust all who visited this city also feel benefitted in health by the pure Canadian air they breathed, and also by the tea, coffee and "porridge" they as freely partook of, and have resumed business at their respective habitats with renewed vigor.

It has been remarked that three out of the "quartette of Torontonians" figured in the FLORIST of August 27 are baldheaded. Of course everybody knows that bald-headedness is caused by deep thinking and early piety, and Ald. Gibbs told the members what a pious city this was, but still some of the "boys" don't wish it to go down to posterity that three out of every four Toronto florists are minus their top hair. Mr. Ewing says he has kept his hair on because he never before attended a convention.

But to put aside frivolities, here are a few thoughts which have been working in my mind since the convention, and which if the editor does not dump them into the waste paper basket, might start someone else on a fresh train of thought.

There is no doubt but that the convention has given horticulture an impetus and a lift up in this city that will be felt for all time. Things have been slowly improving all along, especially in the last few years, but an affair like this gives standing and importance to the profession which it would take twenty years to obtain in the ordinary course of events. The old-fashioned idea of a gardener with a good many people was that he should be a handy sort of jack-of-all-trades who looked after the cow, drove the boss down town and back every day, kept the house furnace going in winter, took care of the greenhouse, flower and kitchen garden in his spare moments and would stand any amount of abuse if he did not have lots of flowers, plants and vegetables on all occasions. Florists also were thought of as "only gardeners" and very "low down" sort of folks. Now I think the "cow gardener" may be said to be a kind of an extinct bird, like the dodo—at least in Toronto. Occasionally one reads an advertisement from the country, "wanted—a gardener to look after cow and horses and do chores," but they are getting scarcer every year. The florist's position now depends upon himself to a very large extent. There is no reason on earth why a wholesale or retail florist should not be every whit as good as a wholesale or retail dry goods (or any other goods) merchant. The nature of his calling ought to make him better.

It remains for the Gardeners' and Florists' Clubs, now that the S. A. F. has given impetus to the profession, to keep the ball rolling and if individual members will pocket all their petty jealousies, hard feelings and such like and only keep in view everything that tends to elevate horticulture in the eyes of the general public, depend upon it they and their descendants will reap the benefit of any self denial they may impose upon themselves

now in order to do so. United action by big and little, young and old is what is wanted in these days, and florists' clubs all over the country should elect men as officers who have not only their own popularity in view, but who at the same time can see that by elevating things horticultural and floricultural they are putting money and position into the hands of their fellows as well as their own.

I am afraid the meeting of delegates from gardeners' and florists' clubs was hardly as much of a success as it deserved to be. This was no doubt to a great extent due to the short notice given, so that important subjects which might have been discussed to great advantage had not been sufficiently thought out beforehand. It seems to me that this meeting if continued annually might do a lot of good if clubs would refer knotty or disputed subjects to it in the form of questions or resolutions which should be printed and distributed beforehand and though of course the decisions of the meeting could not be enforced they would certainly carry great weight from the fact of their having been arrived at by the combined best talent from all over the country.

It is to be regretted that there should have been ground for complaint concerning the trade exhibit. The customs department seems to have been the chief cause, the closing during and immediately after sessions coming next. The first of these causes was under the circumstances unfortunately unavoidable. Most of the custom house people I ever came in contact with (and I have travelled a good deal) seemed to have been made for the same purpose as the common house-fly—to annoy. But this inconvenience will probably not occur again for some years. The second cause can be best remedied I should think as is suggested in the FLORIST of the 3rd inst., by holding the exhibit in a separate building if close to the convention hall and in connection with a flower show. But with all due respect to the exhibitors and also taking into account the trouble and expense they are put to in bringing their exhibits to the place of convention, I think it should not be forgotten that the proceedings of the convention are the first and foremost consideration. It will be said perhaps that the trade exhibit is one of the most important parts of the convention. So it may be, but remember *it is only a part*, and if the convention should at any time fail to attract members the exhibitors would fail to take many orders. A man can manage to get along without an arm or a leg, but the arm or leg cannot do as much without the man. These are matters which should I think be thrashed out *now* so that the executive committee of the S. A. F. may be able to separate the wheat from the chaff and thus give the members the benefit of any really good suggestions that may come out.

The chrysanthemum show is the next great event I suppose with all the clubs. This club will take the matter up again at its next meeting I presume. Owing to the convention the show has been laid on the shelf for some time.

The weather is beginning to feel considerably like the fall here now and coleus are showing the effects of cold nights and cloudy days. The first frost generally puts in an appearance on or about the 20th of this month. E.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Coming Exhibitions.

Hamilton, Ont., Sept. 22—Electoral District Hort. Society and Gardeners' and Florists' Club.
Gloucester, Mass., Sept. 25–26—Cape Ann Hort. Society. Wm. Lufkin, Sec'y.
Los Angeles, Cal., Oct. 27-31—Southern California Hort. Society. H. W. Kruckeberg, Sec'y.
Louisville, Ky., Nov. 2-7—Louisville Florists.
New York, Nov. 2–8—Madison Square Garden. J. W. Morrisey, Sec'y.
Hartford, Conn., Nov. 3-5—Hartford Co. Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.
Boston, Nov. 3–6—Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.
Milwaukee, Wis., Nov. 3–6—Wisconsin Florists' and Gardeners' Club. W. H. Ellis, Sec'y, 133 Mason St.
Detroit, Mich., Nov. 3–7—Detroit Florists. Robert Flowerday, Sec'y, 460 John R. street.
Providence, R. I., Nov. 4-6—Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.
Wooster, O., Nov. 4–6—Wooster Floral Club. W. A. Porter, Sec'y.
Erie, Pa., Nov. 5-7—Erie Chrysanthemum Club. H. Tong, Sec'y.
Bay City, Mich., Nov. 5–11—Bay County Hort. Society. T. J. Cooper, Sec'y, 811 North Water street.
Pittsburg, Nov. 10–12—Pittsburg and Allegheny Florists' and Gardeners' Club. G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.
Newport, R. I., Nov. 10-12—Newport Horticultural Society. John Butler, Sec'y, Berkeley Ave.
Toronto, Ont., Nov. 10–12—Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School, Toronto.
Bedford, Mass., Nov. 10–12—New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.
Washington, D. C., Nov. 10-12—Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St. N. W.
London, Ont., Nov. 10–12—Forest City Florists' and Gardeners' Society. Wm. Gammage, Sec'y, P. O. box 155.
Oshkosh, Wis., Nov. 10–12—Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.
Philadelphia, Nov. 10–13—Penna. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
Chicago, Nov. 10–13—Hort. Society of Chicago. James D. Raynolds, Sec'y, Riverside, Ill.
Minneapolis, Minn., Nov 10-13—Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.
Baltimore, Nov. 10–13—Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.
Indianapolis, Nov. 10–14—Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.
Germantown, Pa., Nov. 10-14—Germantown Hort. Society. Thos. E. Meehan, Sec'y.
Worcester, Mass., Nov. 11–12—Worcester County Hort. Society. Edward W. Lincoln, Sec'y, 5 Oak St.
Galt, Ont., Nov. 11-12—Galt Hort. Society. Thos. Vair, Sec'y.
Montreal, Nov. 11–12—Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.
St. Louis, Nov. 11-13—St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania avenue.
Springfield, Mass., Nov. 11–13—Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St.
Utica, N. Y., Nov. 11–13—Utica Florists' Club. J. C. Spencer, Sec'y.
Buffalo, Nov. 12-14—Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main Street.
Syracuse, N. Y., Nov. 17-18—Central New York Hort. Society. H. Youell, Sec'y, 228 Beecher street.
New Orleans, La., Nov. 17–19—New Orleans Horticultural Society. Charles Wise, Sec'y, Third and Prytania Sts.
New Haven, Conn., Nov. ————New Haven Chrysanthemum Club. Miss Francis S. Ives, Sec'y, 478 Orange St.
San Francisco, Nov. ———— —California State Floral Society. Emory E. Smith, Sec'y, 321 Market St.
Little Rock, Ark., Nov. ———— —Little Rock Florists' Club. D. M. Tipton, Sec'y.
Philadelphia, March 29–April 1—Penn. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad street.

Exhibition Details.

If not already attended to no time should now be lost in arranging and putting into execution your plans for advertising the November shows.

Don't wait until the last moment, and then have to hustle things so that details are necessarily imperfectly digested.

If the final, full and complete premium list has not already been issued it should be gotten out without delay, and entry blanks should be enclosed with each one; and don't forget to print right on the entry blank the name and address of the party with whom entries must be made. And it would be an excellent idea to print the rules and regulations on the back of this blank.

If the club or society is to furnish vases and bottles for cut flower displays, make sure that a sufficient supply will be on hand at the proper time. A little thought on these things now will save a good deal of hustling at the last moment.

While getting up your printed matter don't fail to provide for display cards of uniform size and style to place on the winning entries after the awards have been made, leaving proper blanks, of course, for filling in to suit the case.

If you expect to have special features for certain days, have large placards lettered now to hang up in the exhibition hall the day before, announcing the special feature for "To-morrow." They can be gotten out now just as well as on the day needed, and if in hand will save you time and worry when your attention should be concentrated on matters that cannot be provided for in advance.

If you intend to do any advertising on bill boards or in street cars, contracts should be made now, copy for the bills or placards prepared when you can do it at leisure and get the wording just right —something you can never do when hurried and worried with a rush of other details, all demanding attention at once.

Have the matter of benches thoroughly understood and provision made now for any lack in this direction. We hope that you will agree with us that chrysanthemum plants should never be placed on benches or tables. The floor is by far the best place for them. We should be able to look down on the plants, and not be obliged to look up at them. To our mind tables should be used only for cut flowers and small plants, never for so large a plant as any chrysanthemum.

Have the tables or benches ranged along or near the walls, and leave the central floor space open for a free, graceful, and natural arrangement of the plants in

beds and groups. Have some definite plan of arrangement, but endeavor to secure the symmetry of nature and not that of the scroll-sawyer. Leave broad, roomy walks that the people may not be obliged to crowd in order to see the display. And don't leave the floor a great bed or collection of brilliant colored chrysanthemum flowers alone. Tone down the glare by interspersing specimen palms and similar decorative plants.

Provide a good supply of sawdust to place under and around the pots of the plants. This not only saves the floor from damage, but allows you to water the plants more freely than otherwise and the plants do not dry out so rapidly.

If you are to have displays of orchid plants, provide means for displaying them in some natural disposition, instead of on racks or any other framework of harsh outline.

If you are to have competitions for parlor decorations, attend now to the matter of providing proper divisions to form the rooms. A framework covered with silesia or similar cloth is the cheapest and best method we know of. If the hall is very high, which is apt to be the case, provision must be made for covering the tops of the "rooms," as otherwise the "parlor" effect is lost to a very considerable extent.

Another important matter that should have early attention is the painting of a large banner bearing an announcement of the exhibition, dates, etc., to be hung across the front of the building in which the show will be held. This splendid advertisement should be in position for at least a week prior to the opening of the show, and permission to so display it should be secured from the owner of the building at the time the hall is hired to make sure of the privilege. If the hall is on a well traveled thoroughfare, this is a splendid advertisement, and identifies the exhibition with the place it is to be held in a way that no other advertising can; and it is a splendid supplement to your other advertising, for the person who has seen your newspaper or poster or street-car advertisement and is not thoroughly familiar with the location of the hall has the thread of the discourse quite complete when he happens to note the banner displayed on the building. Such a banner is a good paying advertisement, and the expense is slight.

When the exhibition is open, if surroundings permit and the material is available, make some sort of a display just outside the entrance. Conifers and similar subjects are excellent. This makes a double invitation to enter by giving a taste of what is to be seen on the other side the box office.

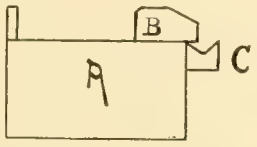
Don't fail to provide for a liberal decoration of any bare spots in the hall. The general effect appeals to the majority rather than excellence of detail. Have the details first class, but look out for the general effect also.

Don't permit any alleged rustic houses or similar structures in the central floor space. If any are to be admitted, keep them off to one side, where they will not be obtrusive. Rustic benches in retired spots under or against heavy foliage, would serve a useful purpose in furnishing a resting place for visitors.

When getting up your printed matter, don't forget to arrange for the cards to be placed on each entry, giving number of entry and class. And have some one to see that these cards are correctly placed afterwards, so that the judges will not be subsequently embarrassed by finding the entry card for a lot of standard chrysanthemums placed on an exhibit of cut carnations, as has happened altogether too frequently for the patience of good men who have come from a distance to brave the chances of losing any friends they may have before possessed in the city in which the show is held.

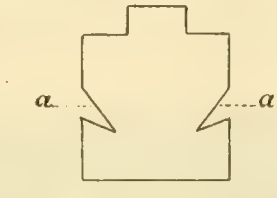
Wrinkles in Construction.

This summer in constructing a house for growing new seedling carnations I have made use of a few wrinkles that may be of interest to some of the readers of the FLORIST. The house is 95x20, glass 10x12 double thick and lapped, rafters 12 inches apart with drip grooves on each.



Instead of allowing the water from these grooves to run down on the rafter plate (B) and thence down the inside of the walls of the house to rot the boards and posts, I have nailed a drip spout (C) of white pine 1x1½ inches against the gutter plate (A) close up under the rafter plate, the latter laid to project about ¼ inch inside the gutter plate. This drip spout has a V shaped groove along the upper (1 inch wide) surface and conducts the water the length of the house and out alongside of the gutter plate. Where the different pieces of the drip spout connect I make a bevel cut joint. The whole is painted before it is put up, and makes a simple and effective drainage.

In making the rafters I have had the



mill saw out a drip groove (a) (a) with a circular saw, which answers the purpose quite well. It is not so neat or smooth as the machine made ones advertised in the FLORIST, but serves as a substitute.

In putting on the ventilators I have plowed out the frame to allow the rafter muntings to set up into the ventilator frames just enough so the ventilator when down will not rest on the glass. This serves as a wind guard. If the muntings are made a trifle higher than commonly, or a strip of wood is tacked on top of the munting where the ventilators go, it will prove efficient.

C. J. PENNOCK.

"The Pines," Kennett Square, Pa.

The Public at the Flower Show.

First impressions being strongest, arrange the show so the position first taken by the spectator gives a comprehensive effect of beauty. If possible, let the entrance be roomy and decorated, using live materials. A discretionary expenditure in the lobby and about the outer entrance will not be misapplied.

A receiving committee of several of the craft who are well acquainted locally can accomplish much in making people feel welcome at their coming. Visitors like their presence to be appreciated, and a chat with those whom they all know and that are interested and posted, is pleasant to them.

Music seems to be an indispensable adjunct. That of a string band or orchestra is more in harmony with the occasion than from a brass band, as in volume of sound it ought not to interfere with conversation. Placing the musicians amid a group of palms in the center of the exhibition is a good plan, as a smaller number of performers can answer the purpose than if stationed in the gallery or other extreme parts of the hall.

Let the aisles be of ample width. At certain hours a crowd is sure to be present, and it must be accommodated. Tables of such width that only one line or class of exhibits occupy their length along an aisle are best, as avoiding undue crowding at points of special attraction.

A programme of the show for the use of the public is desirable. Leaving off the exhibitors' rules and regulations, a list of the classes and offered prizes can be a simply gotten up and inexpensive affair. It should be printed neatly on good paper. While the plan of securing income from advertisements published with the programme seems a good business stroke, it has an objectionable look of the claptrap order, and most frequently, through being gotten up in poor style, is not very becoming to the dignity that should belong to a first-class flower show. Besides the details interesting to the visitor, have the programme briefly but distinctly include the arrangements of the displaying of different features on different days; also let such be properly placarded in the hall, as has been suggested in these columns.

The policy of selling flowers at the show seems questioned. Some argue that it looks like imposing on the public and that we should rest content with the admission fee only for revenue. That it lacks dignity; is a breeder of jealousy from those liable to be interested in its conduct, and induce unscrupulous visitors to presume that flowers carried in the hands of purchasers having been given to them, entitles them in turn to free flowers. I believe, however, that a privilege of selling flowers let to the highest responsible bidder, under stated restrictions, and requiring the erecting of a flower booth decorative in feature would properly work to a benefit, and enable true flower lovers to agreeably indulge their fancy when at the show.

The giving away of flowers in any general way by exhibitors is a breeder of mischief sure to be demoralizing to a due respect of the ownership of the exhibits before the close of the show. Exhibitors should bring nothing into the show except for display; the last paying visitor is entitled to see it all, and the hall committee should have absolute control and be invincible against any unwarranted removal of any exhibit.

The florists having the inside track on cost of decorating materials, the exhibition space should be made cheerful and appropriate. Foliage, even if of common character, filling in nooks, corners, or bare spaces, garlanding here and there, etc., costs little, and counts much in general effect.

As a rule, my opinion is that the necessary efforts given to conducting a flower show pure and proper on its merits will accomplish as much or more than assimilating with it the interests of charitable institutions, side shows, serving refreshments, etc., worthy as are good causes of that class.

DAN'L. B. LONG.

Buffalo, N. Y.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WE ARE pleased to announce that we have secured the services of Mr. Wm. J. Stewart, of Boston, as General Eastern Manager of the AMERICAN FLORIST. Mr. Stewart is so well known to our readers that no introduction will be needed, and that he can by devoting his full time to the interests of this journal add very materially to its value to our readers none will doubt. He has had twenty years' experience in the cut flower trade, part retail and part wholesale, is a graceful writer, thoroughly understands what is of interest and practical value to the trade, has visited all the leading establishments in the country and none has a larger acquaintance among those in the trade. His thousands of friends will we are sure be glad to learn that he will as the Eastern Representative of the FLORIST be enabled to visit them much more frequently than in the past It will be unnecessary for us to bespeak for him a cordial welcome as the representative of this journal, for this he would have in any event. For the present his address will be as before, 67 Bromfield street, Boston, Mass.

TO THOSE at all familiar with the time usually needed for photographing, and engraving by the half-tone process, the plate on another page from a photograph of an event that occurred last Saturday evening will cause some wonder as to how the feat was accomplished, and that there was some mighty quick work done all will agree. The photo was taken by flash-light, and was, of course, not nearly as distinct as if taken by daylight, but the plate gives a fair general view, though at considerable sacrifice of detail.

MR. AREND BRANDT, Newport, R. I., sends us some magnificent hydrangea blooms, both of the hardy one, paniculata grandiflora, and the blue colored one so largely grown at Newport. And the ones sent are colored the deepest blue of any we have seen. A bed of plants covered with the great, massive heads of deep blue flowers is a sight worth going miles to see.

JAMES B. NEAL is said to have opened a flower store in San Francisco. Some parties in Washington and Chicago may still remember Mr. N. and be pleased with the reflection that in case he makes later another westward jump he may meet the fate of the lamented McGinty.

MR. W. A. MANDA, of Short Hills, N. J., has been appointed by President Norton to fill the vacancy on the executive committee of the S. A. F. caused by the election of Mr. James Dean to the presidency.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

News Notes.

RIVERSIDE, CAL.—Mr. E. L. Koethen, formerly of Zanesville, O., has located here and will cultivate certain floral specialties.

RICHMOND HILL, N. Y.—Mr. Alex Lindstrom is completing a new house 100x11 for Primula sinensis. This gives him a total of 10,000 square feet of glass.

LOUISVILLE, KY.—F. W. Wrampelmeier has added and just completed 3 more rose houses, making a total of 5,500 feet under glass, heated by hot water. His specialties will be roses, carnations and cut flowers in general.

MEMPHIS, TENN.—Mr. J. T. Williamson has just added two new rose houses 100 x20 to his already extensive plant, thus making it one of the best equipped places in the South. Much satisfaction is felt here at the appointment of Mr. John Thorpe as chief of floriculture for the World's Fair.

STONEHAM, MASS.—Three ladies while strolling in the woods in this town were poisoned by eating of the roots and stems of the Water Hemlock (Cicuta maculata) which is a deadly poison, but which they mistook for something else. Two of the ladies died within a few hours and the third had a very close call.

CINCINNATI.—Mr. H. L. Sunderbruch has opened a wholesale commission cut flower store at Fourth and Walnut streets. "Harry," as he is known to a wide circle of acquaintances, is very popular with the florists of the west and should have no difficulty in establishing a good business, as this city has now become quite a producing center.

H. L. SUNDERBRUCH,



MEMBER S. A. F. AND F. P. A.

WHOLESALE * FLORIST,

Fourth and Walnut Streets, CINCINNATI, O.

Will handle the products of the leading growers of Cincinnati and vicinity. Give me a trial.

H. L. SUNDERBRUCH.

Late of A. SUNDERBRUCH & SON.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

THE OLDEST
Wholesale Cut Flower House
IN THE WEST!
KENNICOTT BROS.,
27 E. Washington Street, CHICAGO.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
(Successor to C. H. FISK),
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.

E. J. HARMS,
Wholesale Dealer in
CUT FLOWERS,
And Florists' Supplies.
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

C. STRAUSS & CO.
GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

CUT FLOWERS.
The Western Trade Solicited.
Write or Telegraph.
SMITH FLORAL CO.,
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F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.
Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.
☞ Wholesale Catalogue on application.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

FLORAL DESIGNS.
The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address (with $3.50 for the book)
J. HORACE McFARLAND,
Box 655, HARRISBURG, PA.

Wholesale Market.

Cut Flowers.

	BOSTON, Sept. 14.
Roses, fancy	4.00 @ 6.00
Carnations	.75 @ 1.50
Asters	1.00
Gladiolus	4.00
Lilies, album	6.00
Hydrangeas	4.00
Sunflowers	1.50
Smilax	10.00 @ 12.00
Asparagus	50.00
Adiantums	1.00
Adiantum Farleyense	20.00

	PHILADELPHIA, Sept. 14.
Roses, Beauties	8.00 @ 15.00
" La France, Albany	3.00 @ 4.00
" Mermets, Brides	3.00 @ 4.00
" Perles, Niphetos	2.00 @ 3.00
" Gontiers	1.00
" Marie Guillots	2.00
Carnations, long	1.00
Carnations, short	.50
Asters	.50 @ .75
Valley	5.00
Tuberoses, stalks	2.00 @ 4.00
Smilax	15.00 @ 20.00
Adiantums	1.00
Gladiolus, stalks	2.00
Single violets, bunches	4.00 @ 5.00

	NEW YORK, Sept. 14.
Roses, Bon Silene	.50 @ 1.00
" Gontiers, Souvs., Woottons	1.00 @ 2.00
" Perles, Niphetos, Hoste	1.00 @ 2.00
" Mermets, Brides	2.00 @ 3.00
" Watteviles, Cusins	1.00 @ 2.00
" La France, Albany	2.00 @ 4.00
" Beauties	3.00 @ 16.00
Carnations, long	.75 @ 1.00
Valley	3.00 @ 6.00
Smilax	8.00 @ 12.00

Trade increasing.

	CHICAGO, Sept. 15
Roses, Am. Beauties	10.00 @ 12.50
" Wabans, Mermets	4.00 @ 4.50
" La France, Albany	3.50 @ 4.50
" Brides	4.00 @ 5.00
" Wootton	3.00 @ 4.00
" Perle, Niphetos	3.00 @ 4.00
" Gontiers	2.00 @ 2.50
Carnations, long	1.00 @ 1.50
Carnations, short	.50
L. auratum	8.00
Asters	.50
Smilax	15.00
Adiantums	1.00

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Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
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N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

GEO. MULLEN,
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Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order.

FOR SALE.
THE CUTS
USED IN ILLUSTRATING THIS PAPER.
Write for prices on any which you have seen in previous issues and would like.
AMERICAN FLORIST CO.
CHICAGO.

Edward C. Horan,
WHOLESALE FLORIST,
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
NO. 32 W. 30TH ST., NEW YORK.
Orders to be shipped will receive prompt attention.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

JOHN YOUNG,
WHOLESALE FLORIST
53 WEST 30TH STREET,
NEW YORK.

A. S. Burns. J. I. Raynor.
BURNS & RAYNOR,
WHOLESALE FLORISTS,
11 West 28th St.,
NEW YORK.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

WHOLESALE
CUT FLOWERS.
GOOD ROSES FOR SUMMER TRADE.
Write for prices.
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At Summer prices—15 cents. Quality first class. Shipped on shortest notice. Telephone No. 15.
JOS. E. BONSALL, SALEM, OHIO.

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Every Florist, Nurseryman and Seedsman should have one.
AMERICAN FLORIST CO., Chicago.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

Duty on Catalogues.

ED. AM. FLORIST:—You will notice by the enclosed that you should not complain because the Canadian authorities charge duty on American seedsmen's catalogues, as this same thing is still practiced in this country. A. BLANC.

Philadelphia.

[The enclosure was a wrapper used on H. Cannel & Sons' catalogue (English) and the book had been rated as worth 50 cents and a duty of 13 cents charged and collected. Another cry for free trade.—ED.]

A GOOD AUTHORITY speaks as follows regarding the new tomatoes: Henderson's 400 tomato has been very fine in spite of the wet weather. Its faults are, too great size and a good many rough specimens. It has not ripened well to the stem, but may do better in a dry season. It is earliest of the very large sorts. Ring Leader is very similar. Brandywine, Table Queen and Atlantic prize are all good. Early Ruby is early but too small.

ONION SETS.—These are larger on an average this season than last, and prices at present are about as follows: Yellow and red, $2.00 to $2.25 per bushel; whites, $2.50 to $2.75 per bushel. There is some stock of the latter which show signs of decay.

SOLD OUT.—E. W. Allen & Co., Portland, Oregon; F. J. Motts & Co, Huron, Dakota.

TOMATO SEED is reported as about 65 to 75 per cent of a crop in Ohio.

Bridgeport, Conn.

James Horan, the florist, is busy remodeling a block of seven of his old houses and reducing the number to five, covering the same space as originally occupied by the seven. The posts, rafters, purlins and gutters are all of iron; there is no wood used except the ridge, sash-bars and siding. Hitchings & Co. have the contract for the iron work. When finished they will be large, airy, strong, but light structures. The potting and packing sheds, which run across the end of this range, have been remodeled and rebuilt, making a large, roomy building 120x16. Mr. Horan's specialties are roses, carnations, and chrysanthemums. The roses have made splendid growth and promise well for winter. A house 20x120 of chrysanthemums planted on the benches and grown to two or three stems look exceptionally fine, and later will undoubtedly show some fine flowers. Thousands of chrysanthemum plants are grown in pots, tubs and benches, besides the house above referred to.

Carnations are largely grown, eight houses being occupied by them, and they look very fine. Many of the novelties in this line are on trial. Fred Creighton is a favorite, and Mr. H. says that each succeeding year it does better with him. Lizzie McGowan is the poorest grower so far in the entire collection. We seldom see a house of camellias nowadays, but here they can be seen with heads as large as maple trees. The varieties are mostly alba plena and fimbriata.

There is also in this house two famous specimens of Acacia pubescens planted out and some fine specimens of A. Drummondi in pots. Both varieties are valuable for cutting for decorative purposes.

A large collection of bedding plants are also grown for retailing, and a large house is devoted to palms and other decorative plants. Mr. Horan's fine residence is surrounded by a lawn containing flower beds, and belted on the outer margin with choice shrubs, weeping trees and herbaceous plants, and when the new iron houses are finished it will be the most complete florist's establishment in this part of the country.

JOHN DALLAS.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a gardener and florist; 9 years' experience. Private place preferred. A J, Box 55, Lake Geneva, Wis.

SITUATION WANTED—By an experienced florist; 30 years' experience. Address E. HAY, 200 North Green St., Chicago.

SITUATION WANTED—By Married man as gardener—private place preferred. Good references. ANDREW CRAWFORD, E. Milton, Mass.

SITUATION WANTED—A gardener and florist with 18 years' experience; first-class reference, wants a private place. Address A W, Box 539, Lake Geneva, Wis.

SITUATION WANTED—By a Scotchman of 20 years' experience in growing roses, and all sorts of first-class florist work; single; best of references. Address GARDENER, box 362, Stoughton, Mass.

SITUATION WANTED—By a young gardener; 21 years; 5 years' experience in general florist work. Inside work preferred and in the east. Address J S, care John G. Jensen, gardener to H. B. Hyde, Esq., Bay Shore, L. I.

SITUATION WANTED—As foreman, propagator and grower of roses and choice stock. First-class designer and decorator, bedding, etc., park or public grounds. Strictly temperate, and capable in any department. ALBA, care American Florist.

SITUATION WANTED—By a young florist 22 years of age; well acquainted in the business; 6 years' experience; good design worker. Good references can be given. Place in cemetery or private greenhouses preferred. Address F. QUICKERT, Oakgrove Cemetery Greenhouses, La Crosse, Wis.

SITUATION WANTED—By a first-class florist; German, single, age 24 years; thorough knowledge of all branches; growing roses, carnations, palms, propagating, cut flowers, and chrysanthemums for exhibition. Southern or western state preferred. Best references. Address F G, care American Florist, Chicago.

SITUATION WANTED—By a good all round man as manager, florist's or private establishment; 25 years practice, private and commercial in England and America. Successful plantsman and cut flower grower; also quick and tasteful at floral work. Abstainer; married, one child. Address FLORIST, P. O., Victoria, B. C. Canada.

SITUATION WANTED—By gardener of executive ability and experience of all requisites and routine of commercial place, inside and outside operation, general propagation, successful growing of cut flowers, roses, pot plants, accessories to the nurseries, etc. Address HORTICULTURAL, care American Florist.

SITUATION WANTED—By a first-class florist and gardener; German; 10 years' experience in growing roses, carnations, ferns and all kinds of other plants. Good cut flower worker and decorator. Very industrious; honest; first-class references; as head gardener on private or commercial place. Address G. F. DIEZ, care Schempf & Schubart, Wheeling, West Va.

SITUATION WANTED—By a first-class florist; thoroughly experienced in growing roses, carnations, palms etc.; all kinds of forcing and propagating. Also chrysanthemums for exhibition. Well up in design work and decorations. Would like to manage middle sized place. Only southern or western state. German; single. Address No. 500, care American Florist.

WANTED—Wholesale illustrated catalogues of florists' supplies and plants. F. W. WRAMPELMEIER, Louisville, Ky.

WANTED—A sober, trustworthy man to take charge of a retail store in New York. Apply to BURNS & RAYNOR, 11 W. 29th St., New York.

WANTED—600 to 800 feet 4-inch cast iron pipe, second hand, good condition. State net cash price f. o. b. H. R. THOMPSON, N. Egremont, Mass.

WANTED—A thoroughly competent rose grower, capable of managing a large establishment. Apply HORTICOLE, Grand Central Hotel, New York City.

WANTED—Young, experienced, working partner to conduct well established florist business, with two greenhouses; or will rent to responsible party. Address Box 156, Brunswick, Maine.

WANTED—A man who has been successful in the management of a first class horticultural establishment, including a knowledge of forestry. Apply HORTICOLE, Grand Central Hotel, New York City.

FOR SALE CHEAP—Two Scollay and one Weathered second-hand Nos. 5 hot water boilers. JAMES HORAN, Bridgeport, Conn.

FOR SALE—One variegated agave 42 years old; fine large plant. Inquire of MRS. H. W. SHOVE, Woodbury, Conn.

FOR SALE—One No. 17 Hitchings boiler in good condition. Address WM. MANN, 1941 Brook St., Louisville, Ky.

FOR SALE—12,000 letters; mail orders for flower seeds and plants received in 1889 and 1890—nine-tenths from ladies. Best offer gets them. R FERRIS, Kingston, N. Y.

NOTICE.

WANTED—A man to propagate and do most any kind of work; also a man to work in the greenhouse and fire a low pressure steam boiler. Address H. MOORE, 54 Beale St., Memphis, Tenn.

SEED TRADE.

SITUATION WANTED—A position as seedsman, traveler, or to start a seed business; 25 years' experience in the wholesale and retail trade. Highest testimonials. Address T. WEBSTER, 37 Childs Street, Hyde Park, Mass.

FOR RENT.

Three greenhouses, with dwelling, in good condition, situated just outside of Milwaukee, suitable for growing for either wholesale or retail trade. For particulars, address WISCONSIN FLOWER EXCHANGE, 131 Mason Street, MILWAUKEE, WIS.

FOR SALE CHEAP.

A 15-horse power steel Locomotive Boiler, including stack. Guaranteed in first-class order. 90 lbs. pressure.

LA ROCHE & STAHL,
1237 Chestnut Street, Philadelphia, Pa.

TO LET ON LEASE.

For a term of years, one of the **Largest** and most **Complete** Greenhouse establishments in the **West.** For particulars, apply to

HORTICOLE,
Grand Central Hotel, New York City.

A Splendid Business Opportunity.

I will sell my half interest in our seed business, because I have made money enough and wish to retire from a busy life. I established the business in 1868 and have made money ever since. Our town of 90,000 inhabitants is growing rapidly and we have the largest seed trade in town. I can leave a partner who has had 7 years' experience, is young and honest. This is a fine opening for a man with a few thousand dollars who wants to live in York State.

Address SEEDSMAN, care American Florist.

FOR SALE.

Nine greenhouses, 10,125 feet glass with 2 acres of land and stock for sale very cheap, and on easy terms; the reason is retirement from business and inability to devote the time to it.

The houses are new and in splendid condition, situated in one of New England's best localities, with a large and extra good home market and established trade. Three houses 60x18 feet, four houses 60x10 feet, one house 60x22 feet, one house 75x14; 8,000 plants of general stock; 2,000 roses planted this summer and ready for bloom now; 5,000 carnations of the leading varieties; 3,000 violets; 1,000 chrysanthemums; a bed of young strong smilax—700 strings; stock of palms and decoration plants, representing a wholesale value of $800; hardy shrubs, vines, etc., wholesale price $150. A complete supply of winter forcing and bedding bulbs, and 10,000 lily of the valley just imported, representing a wholesale value of over $400; 50 sash 4x6 feet for cold frames; also 20,000 pots, all sizes. The houses are all complete with steam heating apparatus, a new twin boiler of the "Florida" pattern with 3,000 feet of pipe. There is a large splendid potting shed with office building, and all necessary tools and implements.

The price on property, land, houses with stock, heating apparatus, tools, implements, etc., etc., is $6,500, part of which can stay in the property as first mortgage. For further particulars, write to

H. C. HENKING,
Springfield, Mass.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

Freesia Refr. Alba.

FIRST QUALITY
BERMUDA GROWN BULBS,
75c. per 100; $6.00 per 1000.

Mailed for 25 cts. per 1000 additional.

ADDRESS:

F. R. PIERSON COMPANY,

Tarrytown-on-Hudson, N. Y.

READY NOW

	Per 100	Per 1000
LIL. HARRISII, 5–7 inch,	$4.50	$38.00
" " 7–9 "	7.00	62.00
ROMANS, select,	2.25	20.00
PAPER WHITE grdfl.	1.50	12.50
LIL. CANDIDUM, select b lbs,	3.25	30.00

Hyacinths and Tulips ready next week.

FRESH FLOWER SEEDS
ARRIVING CONSTANTLY.

W. W. BARNARD & CO.
6 & 8 North Clark St., CHICAGO.

CALIFORNIA BULBS ready
Fine lot *LIL. WASHINGTON*, $8 per 100. *PAMPAS PLUMES*, new crop, first quality, 24–30-in., $3.00 per 100; 30–40-inch, $4.00 per 100. *MUSA ENSETE*, 18-in. high, $2.50 per doz.; $15.00 per 100. *JAPAN BULBS*, begin to ship Oct. 1st. *FREESIAS, CHINESE NARCISSUS*, Australian Palm Seeds.
Send for our new Trade List.

H. H. BERGER & CO.
SAN FRANCISCO, CAL.

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Classification of Chrysanthemums.

The classification of chrysanthemums having been placed in my hands by the National Chrysanthemum Society, I have associated with me Mr. A. H. Fewkes and we would respectfully request the co-operation of, and solicit correspondence with, all chrysanthemum growers and anyone interested in the subject.

It is the intention of the committee to have all the information embodied in the report as authentic as possible. Any communications addressed to Mr. A. H. Fewkes, Newton Highlands, Mass., or myself will be thankfully received and promptly attended to.

ELIJAH A. WOOD.

West Newton, Mass.

To American Carnation Growers.

All who are interested in the formation of an "American Carnation Society" please forward their names to the undersigned, together with such suggestions as they may deem pertinent, with a view of calling such a meeting for the purpose of organizing such a society. Please state whether you prefer New York or Philadelphia for such meeting.

C. W. WARD.

East Moriches, Long Island, N. Y.

A BUNCH of "Winchell" grapes is sent us by Messrs. Ellwanger & Barry, Rochester, N. Y. The bunch was of good size, the berries white, in size about midway between the Delaware and the Concord, very sweet and with a splendid flavor.

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" "	4	15	35.00
" "	4	18	50.00
" "	5	24	90.00
" " (heavier)..	5	24	100.00
" "	6	36	200.00
Kentia Balmoreana.....	2½	—	15.00
" "	4	12	35.00
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" "	5	18	100.00

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Waban, from 2½-in. pots, healthy stock	$15.00
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Swanley White, $6.00 per 100; Marie Louise, 1st size, $8.00 per 100; $75.00 per 1000; 2d size, $6.00 per 100, $55.00 per 1000; 3d size, $5.00 per 100; $45.00 per 1000

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A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

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NEW SEED of the following noted strains is now ready. It will be observed that prices are much lower on most of the newer strains this year. Your orders will be esteemed.

	Trade Pkt.	⅛ oz.	¼ oz.	½ oz.	Oz.
Pansy, English Choicest Fancy	$.50	$1.50			
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" Roemer's Giant, 5 spotted	.50	3.00			
Pansy, New Odier or Prize Blotched	$.25	$.75	$1.50	$3.00	$6.00
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200,000 plants of the Jennings strain ready in September and October, 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies to be A No. 1 in every respect. Seed can yet be had at 50 cts. to $1.00 per packet.

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First-class plants, from 2¼-inch pots, $2.00 per 100; $18.00 per 1000, CASH.

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Have also made arrangements to have grown for me a variety of other cuttings. I will make it to your interest to give me your orders. Lists on application.

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FLOWERS
very large, all fringed and yellow center; bloom on tall stems thrown well above the foliage.

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Price per hundred, single sorts.....$ 2 50
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We offer well established 2½-inch pots, at
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Adiantum cuneatum, Anemia phylisus,
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The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10.00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each.

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DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots, strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

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4000 Bouvardias, 2-inch and rose pots, $2.00 per 100; double and single white, pink and scarlet

2000 Var. Vincas, 5 to 10 vines, 4 ft., field grown, large clumps, $6.00 per 100; 1000 3 to 5 vines, 3 feet, good clumps, $4.00 per 100.

1000 Eulalia Zebrina, 5 to 10 canes, very handsome, large clumps, $12.00 per 100.

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8000 Field-grown 'Mums, all styles and colors, plants stocky and in fine shape, $8 00 per 100. Also stock plants of Geraniums, Marguerites, Feverfew, Ageratum, &c., open ground, large clumps, $6 00 per 100. Please mention this paper.

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Only a few thousand left, from 2½-inch pots, equal to ordinary 3-inch, at $1.50 per 100; $12.00 per 1000.

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1000 SMILAX FROM 2½-in. POTS,
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Of late years considerable attention has been turned towards growing that class of orchids that will cheer up with their bright flowers the dull months of winter, and especially about Christmas and New Years, when flowers are scarce and this luxurious demand at its height. To meet this demand I feel justified in saying that there is not any class of plants, even among orchids, that can compare with some varieties of the calanthe.

Take C. Veitchii, with a flower spike 3 to 4 feet long, gracefully arched and bearing as many as 45 blooms of the most beautiful rose color, and you have something void of stiffness and something that will please the eye of the most refined. There are varieties of vestita no less valuable for room decoration, but they differ from the former in color, the flowers being of a delicate creamy white, with in some forms a colored spot on the base of the lip, which adds greatly to their decorative value. With such plants at our command the scarcity of flowers at the times already referred to may be easily overcome. Given judicious treatment the calanthe will grow with great rapidity and soon the foliage will assume the appearance of Phaius grandifolius, and it is when grown to present such an appearance that one is afterward rewarded with their great assistance in the time of need.

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With some calanthe growing has been abandoned merely because they failed to give the expected results and the blame was attached to the want of a proper place to grow them in. Success will seldom crown the efforts of such a grower. To succeed one must be persistent and watch very carefully the requirements of what he undertakes to grow and although it may take time he will doubtless overcome the difficulty. Anyone having a glass structure and the power to maintain a temperature of about 70° can successfully grow calanthes after having gained a knowledge of their requirements.

C. S.

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TWO YEARS, 18x24 inches, fine	6.00 "	50.00 "	
TWO YEARS, Extra selected, 2½x3 feet, strong	7.00 "	60.00 "	
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00 "	70.00 "	

Packed in best manner and delivered to Express or R. R. free of charge. Orders Solicited.

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25,000 **25,000**

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Extra fine stock, best winter blooming variety. Send for Price List.

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Of over forty leading varieties. Send for Price list.

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Field grown plants of the splendid New White Carnation **LIZZIE McGOWAN.** $10.00 per 100. Late Spring struck plants, $5 00 per 100.
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Very fine plants of HINZE'S WHITE, $5 00 per 100. Cash with the order. Address

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CARNATIONS and BOUVARDIAS

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Strong, healthy stock PRIMROSES, $4 per 100, 2¾-inch pots.
C. MERMET and THE BRIDE, $5 per 100 3 and 3½-inch pots.

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12,000—CARNATIONS—12,000

Field grown, and extra fine.

Mrs. Fisher, Grace Wilder, Silver Spray.
$6 00 per 100. $6.00 per 100.
Satisfaction guaranteed.

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Fine field grown plants, perfectly healthy, 3000 Hinze's White, $5.00 per 100; and other varieties, prices on application.

10,000 Pansy plants, finest strain in the country, $3.00 per 1000.

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FROM OPEN GROUND.

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Hinze's White, May Queen,
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and other varieties, at $6.00 per 100.

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First Quality, low.

Fresh Florists' Seeds of all kinds.

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Strong plants of the following varieties at $6 per 100:

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"A Source of Errors in Nomenclature."

Let me add my little say in endorsement of what Mr. A. R. Congdon says on this very important subject on page 96, September 3 issue.

It is a good many years ago since the writer had some cuttings of the dark coleus Hero given to him. That coleus went under the name of Nero for a long time, until a better informed brother gardener straightened the matter out.

Chrysanthemum Elain went under the name of Le Nain for a number of years in that quiet little town where we first became acquainted with that good old variety.

The name of the French dwarf or Crozy cannas are the source of great perplexity to me: No comfort in "half the name suggesting the rest," in the French language, to the average gardener and florist.

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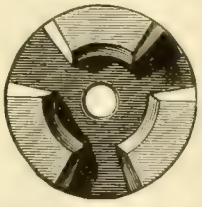
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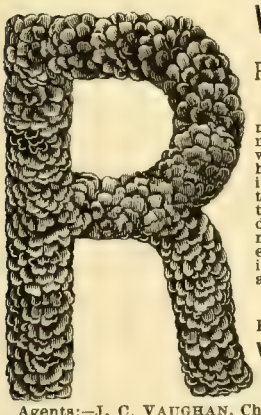
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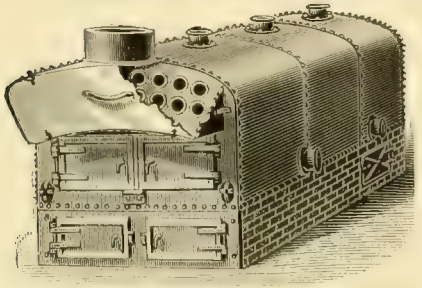
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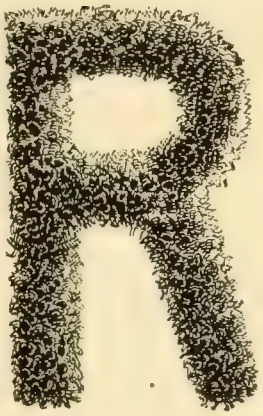
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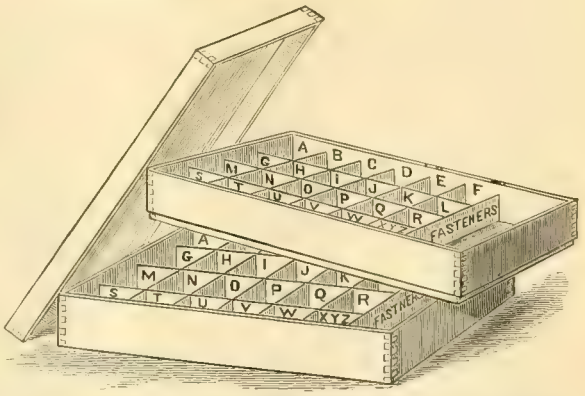
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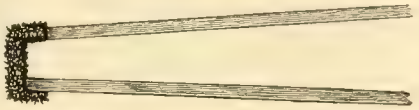


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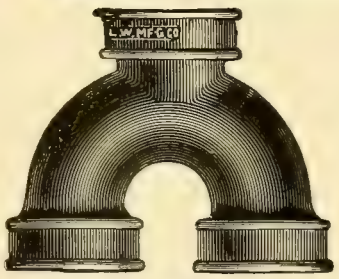


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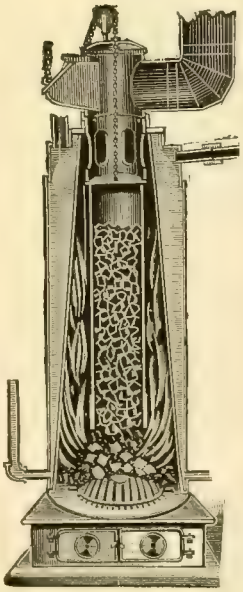
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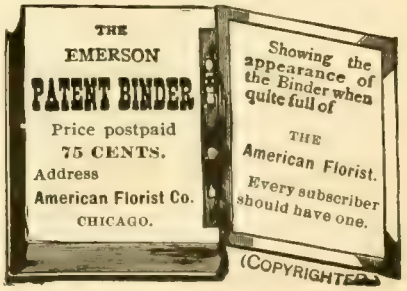
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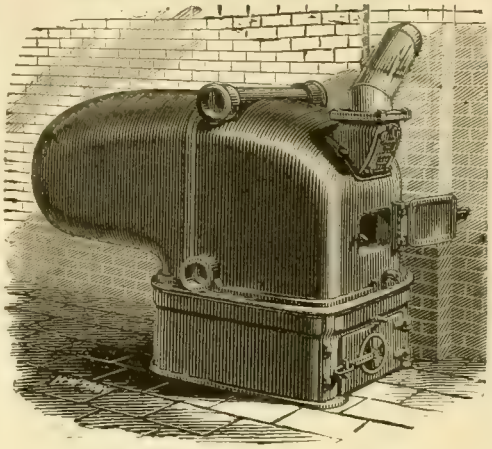
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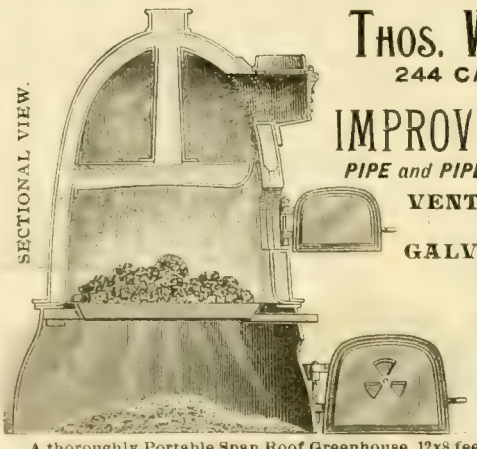
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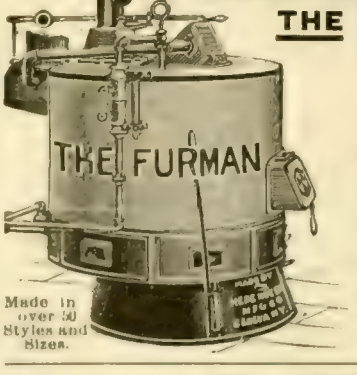
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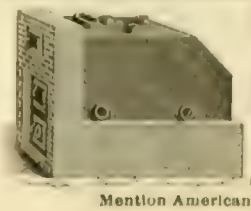

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Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BEATTY, Sec'y, Oil City, Pa.

AMERICAN CHRYSANTHEMUM SOCIETY.

JOHN THORPE, Pearl River, N. Y., president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

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WE ARE advised that no less than thirty carnation growers have already expressed themselves as in favor of the formation of an American Carnation Society. We hope that every grower of carnations in America will be heard from either one way or another.

Cut Flower Growing.

One of the most profitable florists' establishments in or near Chicago is that of Messrs. E. Weinhoeber & Co. They have a well appointed store on the north side in the residence district and sufficient room for several moderate sized greenhouses there, and at Park Ridge they have one of the largest and best appointed cut flower growing establishments around Chicago. All the flowers they grow are retailed in their own store. The store trade is looked after by Mr. Weinhoeber, and the Park Ridge establishment is conducted by his partner, Mr. E. Buettner. At the city greenhouses are kept the splendid lot of decorative plants for use in house decorating, also a house of ferns for cutting, and flowering plants grown at Park Ridge are here held in condition until sold. Some bulbs are also forced here and the flowers cut as called for.

But at Park Ridge the great quantities of cut flowers they use are grown, and to Park Ridge we paid a visit last Saturday. Mr. Buettner has not yet returned from his trip to Europe, but his right hand man, Mr. W. G. Earle, did the honors of the place, and to him we are indebted for the following information regarding varieties grown and methods pursued at this place:

Two houses, each 16x125, are filled with chrysanthemums planted out on benches for cut flowers. The main white sorts grown for cut flowers in this way are Elaine for earliest, followed by Jessica, White Elephant, L. Canning and a very late white of which they do not know the name, the labels having been lost in some way. In whites they have discarded Moonlight, Mrs. Langtry, Christmas Eve and Puritan, the shortcomings of these varieties having been either too small a flower or dropping the petals too quickly to meet the requirements of a good cut flower. And one objection to Mrs. Langtry at this place has been that while it bloomed freely it was a tall, straggly grower. And from none of those discarded could they cut the amount of flowers of good quality that they could from the sorts retained and which form the bulk of their present stock. Puritan and Canning come in together, but they find that they can sell at their store ten bunches of Canning to one of Puritan.

In yellows Christine Golden is their earliest sort and they grow a large quantity of this variety. Next come J. C. Heuszey (not positive as to the correctness of this name) and Pres. Hyde at about the same time, then Mabel Douglass, H. E. Widener, Mrs. Winthrop Sargent and Grandiflorum. In yellows they have discarded as undesirable cut flower sorts: Glorioswm, Peter the Great, Mrs. J. N. May and Yellow Prince.

Of pinks the bulk of the stock is composed of M. E. Nichols (October Beauty) for earliest, succeeded by John Lane, Christine Pink and Pres. Arthur. Lilian B. Bird and Mrs. Mary Weightman are on trial as cut flowers and are considered very promising.

The other colored sorts grown are mainly Cullingfordii, Paul Bert and Val d'Andorre.

These are all grown planted out on benches in soil about the same depth as for roses. The plants have never been from under glass, being propagated in usual course and planted out on the benches about June 1 last. They are placed very close together and now present a solid mass of foliage, the plants varying from 18 inches to 3 feet high according to variety and the earlier sorts all showing strong flower buds. A difference in growth of the plants in two adjacent beds was explained by the statement that the soil in the one showing the stronger growth was all strong new soil, while that in the other bed was a mixture of old and new soil, showing beyond question that it pays to give the chrysanthemum the best, and that while not as delicate as some other plants it shows appreciation of good care and nourishment. All the bedded plants were carefully staked with hard wood stakes held in position by being tied at the top to wires stretched lengthwise of the house.

In one of the houses were noted several hundred handsome little pot plants of chrysanthemums, averaging about 14 inches in height and very symmetrical in form, nearly all showing flower buds. These plants were propagated from trimmings from the bedded plants and were put in the sand bed about July 1 last. When rooted the cuttings were placed three in a 3-inch pot, and as they grew on were shifted into 4-inch pots, in which they will bloom. These plants produce even larger flowers than the larger plants and when in flower meet with a very ready sale to people who want a moderate sized blooming plant to decorate the window of their dwelling.

As Messrs. Weinhoeber & Co.'s stock is selected for the purpose of supplying flowers for their own retail sales only, the proportion of the various kinds and colors of flowers grown indicates pretty well the demand in this city, and therefore we give the quantity as well as the kinds of carnations grown. Grace Wilder is their best and most profitable pink sort and they grow a house 16x125 full of this variety. Of red varieties they have a house 10x125 of which two-thirds of the plants are Portia and the remainder Garfield. The latter sort they do not like very well as it is too late a cropper, and will next season discard it altogether. In another house they have a bench 6x120 of Silver Spray, one 3x125 of Hinze's White and a bench 3x125 devoted to sorts on trial. These include Tidal Wave, Lamborn, Mrs. Fisher, Lizzie McGowan and Nellie Lewis.

They have 6 houses, each 16x125, de-

voted to roses, and the following will give an idea of the proportion of sorts they have found best and most profitable in meeting the demands of their retail trade: House No. 1—Beauties, Bennetts and Capucines; No. 2—Beauties, Bennetts and Bon Silenes; No. 3 —La France, Cusins, Bon Silenes; No. 4—Perles, Hostes, Cusins, Gontiers; No. 5—Mermets, Cusins, Gontiers; No. 6—Brides, Cusins, Gontiers. This will also give an idea of the sorts they have found it best to grow together in the same house, the taller growing sorts being placed in the center beds and the lower growing kinds on the side benches. Then there are two houses of hybrids and the sorts grown are Ulrich Brunner, Mrs. John Laing, Jacqueminot, Diesbach and Rothschild. Speaking of the Cusin, Mr. Earle said that with them it was a very free bloomer ordinarily, but it was very apt to throw its leaves and thus suffer a check in growth. The tea roses do not look as well as usual this year, the very hot weather we have had having burned the foliage of many of the plants.

A house of mignonette was looking well. It was of the Machet variety. Mr. Earle says that it should always be grown in a solid bed, with the glass as near the bed as possible. The mignonette wants a cool bottom and in winter he maintains a temperature just above freezing.

They are growing this year 12,000 freesias, all for sale at their own store, and they find the demand increasing every year. As this is rather at variance with the experience of other growers we enquired closely as to the cause of this demand and we found it in the fact that they make but one cut from the bulb, taking foliage, buds and all as well as the first fully opened flowers. Cut in this way they can sell all they grow and at profitable prices. They do them up in bunches of a dozen cuts.

They also have a large house of Marguerite daisies and have a good call for them, but they cut the flowers with long, leafy stems.

The violets in the field showed the effects of the very dry summer and the plants were not nearly as large as usual at this time. And a big black bug about $\frac{3}{4}$ of an inch long has eaten up nearly all their aster blooms this year.

They tried the Marguerite carnation in the open ground this year, securing the seed from the originator, but half the flowers have come single, and though the season has been unfavorable it gives so little indication of being useful that they will not bother any further with it. But a patch of the double sunflower has been producing a lot of fine salable flowers and has proved very profitable in supplying summer flowers, some of their customers mistaking them for yellow summer blooming chrysanthemums.

In the packing shed were a lot of tulip bulbs grown on the place. Though rough in appearance they were good strong bulbs, but Mr. Earle didn't think it would pay them to grow their own bulbs, unless made a specialty of and grown in very large quantities.

Their Lilium Harrisii and L. longiflorum are potted and plunged in frames out of doors and their narcissus is also boxed. Their Roman hyacinths, etc., are all forced in the greenhouses in connection with the city store and the flowers cut from the bulbs as called for.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.



Take Warning.

The excessive hot weather of the past two weeks has so excited the growth as to make the plants as tender as any coleus. Now in case the weather changes from 85° to 40° or lower in a day, the results will be disastrous to the buds. Therefore it is very important that means for temporary protection be on hand for those plants which are out of doors and cannot be housed on short notice.

All staking and tying of plants should be completed as early as possible. The thinning of buds should be proceeded with from day to day, and pray don't be afraid to thin, as on this depends the value of the crop. One good flower is worth ten poor ones.

The feeding of all plants with liquid manure can be safely done now at any time, providing the stimulant is not too strong and the plant requires watering.

Keep a strict watch on insects of all kinds. Where plants are housed, slight fumigations of tobacco three or four nights in succession will kill effectually black and green fly and white thrip, but be careful not to make the smoke too dense.

Plants out of doors should be syringed with weak tobacco water at intervals, being careful to wash the under surfaces with the decoction. JOHN THORPE.

The Chrysanthemum Bug.

On looking over my very welcome Saturday visitor, the AMERICAN FLORIST, I find on page 102 some most valuable suggestions by "P.," Brookline, Mass., concerning the chrysanthemum bug. I don't know of a chrysanthemum bug by that particular name, but suppose from the context that the black aphis is the pest in question and feel satisfied from what I see of its ravages in this section that any information tending to suppress or repel it is timely and acceptable.

I agree with P. that the egg-laying fly which first makes its appearance derives no sustenance from the plant and in itself does no particular harm outside of laying the eggs and wounding the plants, but the horrible little squirming pests that are the produce thereof are the real mischief workers and like their green brothers on the rose are a source of constant irritation.

From my experience with them I feel satisfied that they are parasites, feeding on the sap of the plant, and derive their color from the plant on which they feed and grow in size in proportion to the vigor of that plant. If any of your readers who are curious and fond of experiment will plant some of our rapid growing golden rod among their roses and chrysanthemums, they will find the aphis green on the rose, black and slightly larger on the chrysanthemum and on the rapid growing golden rod they will find them much larger than on the other two and red in color. I am satisfied they will find that they are one and all simply the same aphis and derive their sustenance, strength and color at the expense of the particular plant by boring through the bark and absorbing the sap.

There is no objection to the tobacco treatment for these insects, syringing and fumigating alike being effectual in destroying them, but these methods both have their drawbacks, as syringing is a tedious job and must be often repeated, and fumigating necessitates the growing of the plants all along in the house.

The best preventive, however, of aphis that I know of is quassia. An ordinary quarter pound bag of quassia chips immersed continually in the water-butt will drive the aphis from any plant infested by them. I use this continually on my plants at the root and occasionally on the foliage, and although the egg-laying fly makes her usual visit, her progeny will have nothing to do with the plant after they have once tasted the bitter principle of the quassia which has been absorbed by the roots and carried in the sap to the tender leaves and shoots.

Although I have never noticed any evil effects from using the quassia water in great strength, as it appears a tonic rather than otherwise, still I like to be on the safe side and use about a quarter of a pound of chips in a twenty-gallon water-butt. It is only necessary to renew the chips about every five days or week, as the same chips kept immersed in the water will supply the bitter principle to the water for that period, and the plants can be continually supplied with it at a very slight cost.

If the plants are growing in the open ground I find that a light mulch of the chips raked into the soil about the plant and renewed once or twice a month is very effectual.

I am ignorant whether or not your subscribers know of this preventive, but if they will try it they will have no further use for tobacco as a cure for aphis on the chrysanthemum.

LINDLEY M. HUGGINS.

Baltimore, Md.

SEE ELSEWHERE under the head "Cut flower growing" for other chrysanthemum notes.

Fine Asters.

Enclosed you will find the result of a visit to Mr. James Semple, of Bellevue, Penn., to see his asters. Being so surprised and delighted at the "show," thought the FLORIST should have a small bunch, at least, and hope they may reach you in fine condition. We are quite sure they deserve to be rated very high class, but want the FLORIST'S superior judgment. Mr. Semple is justly proud of the rich pink variety, and has for five years jealously guarded this strain, which now reaches such a high state of perfection, and will the coming season put the seed on sale. The pink will be known as "Mary Semple," after his charming daughter, and the white as "Semple's White." No special treatment in the way of fertilizers has been resorted to, which would indicate the possibility of even superior results. N. PATTERSON.

Pittsburg, Pa.

[Of the ten blooms sent, none were less than $3\frac{1}{2}$ inches, and some were almost full 4 inches across. When lifted from the box and seen at a short distance we thought they were certainly some very early chrysanthemums. The colors were excellent; the pink is a beautiful shade, and the white a good clear tone. They were decidedly the best asters we have seen. Since the lot arrived from Mr. Patterson another and larger lot of blooms



BASKET OF ORCHIDS.

was received from Messrs. Ludwig & Richter, of Allegheny City, evidently from the same strain of seed, though a larger range of color was shown, including red, blue and lavender, and these were almost as fine as the flowers sent by Mr. Patterson. Such flowers will be heartily welcomed by the cut flower men.—ED.]

The Largest Horticultural Society in America.

Anything that increases the love for flowers and the demand for them is of special interest to the florist, and that the Springfield (Mass.) Amateur Hort. Society has done this is a self evident fact to all those who visited their show the 1st and 2nd of this month. Horticulturists like Peter B. Mead and others who have been in the business for years pronounce it the largest and best exhibit of out-door flowers ever made in this country and with two exceptions all the exhibitors were those who follow some other business for a living. This show was also a grand success financially, as all the other shows of this society have been. No less than 48 new members were added to the list at the last meeting, making now 832 life members, the largest horticultural society in this country, and it will not be three years old until the 1st of January.

As this society is conducted differently from other horticultural societies, it may be of interest to the readers of the FLORIST to give a short synopsis of the way in which it is conducted. The principle upon which the originator of the society worked was that it was not so much a member's money that we wanted as to get him interested in the society and the cultivation of flowers, knowing full well if we accomplished this there would be no lack of money. The price of admission for gentlemen is $1 and for ladies 50 cents; for life membership there are no dues. All the money that is needed is made from the exhibitions and the society has between $900 and $1,000 in cash and $200 worth of tables.

In order to get the members interested, meetings are held twice a month, except in July, for the discussion of fruits and flowers. Essays are read at these meetings, and then a discussion follows in which all the members participate.

Once a year, at the June show, ten tickets are sent to each member, which he is expected to sell or give away, and return $1 to the secretary. The price of admission to the exhibitions is only 10 cents. Everybody goes, and but few tickets are returned unsold. At the exhibition just past no tickets were sent out, and a nice sum has been cleared after paying expenses, although not so much as from the spring show. At the exhibitions there is no judging or premiums; each exhibit is tagged with the grower's name, and the public does the judging, and at this last exhibition, with so many exhibitors, I have not heard one word of complaint from anyone. There are those who are not members of this society who predicted its downfall in six months, and who say a society conducted in this way cannot stand, but up to date it is the liveliest corpse in this country, as those who have made its acquaintance can testify.

CHARLES L. BURR, President.

Basket of Orchids.

We present herewith an engraving from a photograph kindly sent us by Mr. A. Dimmock, now in England, of a basket of orchids presented to the Empress of Germany by Mr. F. Sander, of St. Albans, England. It consisted of the rarest and most costly flowers in his collection, and was a work of artistic merit. Among the flowers employed were numerous cattleyas, such as Mendelii in variety, Sanderiana, chrysotoxa, Gaskelliana, Leopoldii, all cut with pseudo-bulbs and leaves; Oncidium crispum grandiflorum, Gardnerianum, macranthum, undulatum, Loxense; Odontoglossum crispum, Pescatorei, histrix, Wilckeanum, Harryanum, Schroderianum, vexillarium; Aerides Leonis, Sanderianum and Lawrenceanum; Cypripediums caudatum, Schroderæ, Rothschildianum, Sanderianum; Epidendrums Frederici Gulielmi, vitellinum majus, Wallisii; Dendrobium formosum giganteum; Cymbidiums, Thunias, Saccolabiums, Masdevallias, etc.

A Historical Plant.

ED. AM. FLORIST:—In Downing's *Horticulturist* for 1849, page 541, is a notice of a fine plant of Cycas revoluta in the possession of Mr. Thorburn at his establishment at Astoria, Long Island, that was greatly prized because it was once owned by President George Washington.

If this plant is still known to be in existence, we want that plant at the World's Fair. Who can give any information about it?

On reference to the visitors' guide to Mount Vernon I find the following: "At the end of the central walk is the new greenhouse built and partially supplied by an appropriation from congress. This stands on the site of the original Washington conservatory which was destroyed by fire December, 1835. On that disastrous night very few of the rare plants were saved, among them a large bearing lemon tree, a century plant and *a sago palm*. Of these now there can only be seen part of the body of the cherished old palm, though there is a hardy young growth from it."

It is more than probable from this that Thorburn's plant of 1849 was a slip from the old tree, but it is nevertheless interesting. EDGAR SANDERS.

Lilium Harrisii for Christmas.

Will some successful grower of Lilium Harrisii please tell me through the FLORIST the time to plant bulbs to get a good crop of blooms for Christmas, also their treatment from planting until planting next year? READER OF FLORIST.

Staking Roses.

Much has been written about staking carnations, some growers advocating one way, some another and some not staking at all; but nothing has been said about the different methods of staking the rose. All growers evidently take it for granted that the "Queen" must not be permitted to run at large, but the question as to what system of training is most practical seems never to have been considered. Most growers at present use cane stakes, and though they are by far the neatest in appearance of anything that can be used, being light they rot off quickly at the surface of the soil and along toward spring when the sun begins to get pretty hot and heavy syringing is necessary in order to keep down the red spider, they are very apt to knock over and look badly. To avoid this and keep them always upright, even though they do rot off, I stretch a heavy wire directly over each row of plants, three and half feet above the surface of the soil, to which the top of each stake is fastened with a piece of fine wire, which holds it in position firmly, always cutting the stakes four feet long, which with four inches of soil will allow the stakes to extend two inches above the wire. This gives a house a very neat appearance and though but a little thing it will improve the appearance of a house of roses 20 per cent.

For low beds which are near the glass I use no staking at all. Instead I stretch a heavy wire directly over each row of plants, for Niphetos and Cusin ten inches and for the stronger growing kinds twelve inches, above the surface of the soil and tie the shoots to it the same as one would tie grape vines to a trellis. As the plants increase in size I draw the branches over from one row to another and thus bend them over slightly, which causes them to break farther down the stem than they would if growing upright, thus increasing the quantity of blooms very materially. I have used this system for some time and find it much more satisfactory than any system of training I have yet seen. EDWARD SALYER.

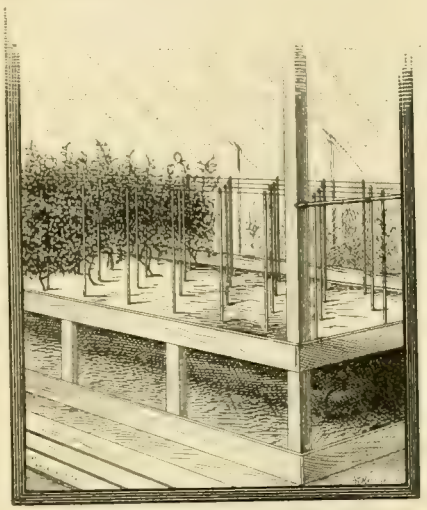
Toledo, O.

[Mr. Salyer is in error in saying that this subject has not been touched upon before, but the point is an important one and we give his communication space. And supplemental thereto we present herewith an illustration which appeared on page 470 of Vol. 3 of the FLORIST, the issue of June 1, 1888.—ED.]

Market Bouquets.

The illustration shows two kinds of bouquets that are sold by the hundreds in our Philadelphia markets. The two lower figures simply show two of such bouquets taken apart, so that the amount of material can by plainly seen. What can be said of the taste that will prompt people to buy such monstrosities! One might think that many bought them intending to take them apart when they got home, but this is hardly the case, because there is a constant demand for such bouquets, and, too, they are tied so tightly and with so much string that all the life is strangled out of them. We must admit that the purchasers are prompted by a certain love of flowers, but with a taste that has in no way been cultivated.

The flowers cannot be appreciated for their individual beauty, because the clusters are simply a mass of poorly chosen colors. In one of the clusters I counted five rose-buds. How infinitely better it would have been could the stems have been cut a little longer, leaving some of their own beautiful foliage on, and then if there was no pretty little vase at hand, put them in a clean tumbler of pure water. H. H. BATTLES.



STAKING ROSES

New York.

Roses are coming in very freely, too freely, in fact, for the requirements of the dealers, who find as yet but scant encouragement from their customers to lay in much of a daily stock. The spell of very warm weather is responsible in part for the overproduction, but beyond that is the very apparent fact that the growers are in too much of a hurry, and the unavoidable conviction that the wholesale men are largely to blame for this. For already has begun the annual frantic struggle of the commission men for the big consignors, and the growers would be something more than human if they were not strongly tempted to take full advantage of the situation. Yet in the long run this condition of things is bound to result in disaster, which must be borne sometimes by a few, oftener by the many, as has been demonstrated in New York on more than one occasion in the past.

When it is true (and there seems to be no doubt it is at present) that commission dealers are paying daily to their growers money for thousands of roses that have come to market only to find their way to the dump-cart, all because of the ill-advised and over-zealous competition of the commission men and the ready acquiescence of the growers, it is time for all hands to keep a watch-out and bear in mind that two and two never did make six and four and four never can make twelve.

The quality of roses coming in is very fine for the season. This is especially true of American Beauties, which several growers are doing remarkably well. Cusins, La France, Wattevilles, and Meteors are all first-rate. Of Mermets there are very few decent ones to be had. There is a good supply of long-stemmed carnations, particularly the Grace Wilder, which bids fair to again be a general favorite among carnation buyers.

A few single violets of good quality for the season are coming in from College Point. Smilax is abundant and dahlias and gladioluses realize scarcely enough to pay the freight.

In one window in Broadway is to be seen a nice row of ericas and a few orchids, but in general florists are as yet paying little attention towards making their windows attractive, relying mainly upon a few palms, ferns, and decorative foliage plants.

Preparations for the great Madison Square Garden chrysanthemum show are rapidly progressing, and the list of patrons is lengthening out in a most encouraging manner.

Among recent arrivals from trans-Atlantic vacations are Winfried Rolker, William Elliott, George Stumpp, A. Jahn, and Miss Burgess, and now only remains Charles Thorley, who is expected to arrive about October 1.

Auctioneer Elliott proposes to commence his regular sales on September 22. He is not in love with English weather. He says it was a constant fight against the rain and fog, and that the first article he bought after landing was an umbrella, which was his constant companion during his stay. He was particularly disgusted by the frequent aspersions upon American weather which he heard over there, and says he couldn't be induced to live there, even if tied with a big chain.

Robert B. Young had an extensive auction sale of foliage plants on September 18, from Siebrecht & Wadley, James Taplin, and the Jersey growers. The audience was not large to start with, but Bob took hold with patient persistence and managed to keep cheerful in spite of the fact that he was crippled up with rheumatism, and finally worked them up to pretty fair prices for much of the stuff.

The Bowling Club of the New York Florist Club holds regular fortnightly meetings for practice. They don't intend to be caught napping next summer.

Mr. August Rolker has been confined to his home for a week by illness, and is threatened with typhoid fever.

Mr. and Mrs. Ellison, of St. Louis, have been visiting here for a few weeks.

When Charlie Weathered and Jim the Penman again appear in public they will each carry a vigorous full beard, which they are now nursing with great care. Charlie says his object is to lengthen his features, which he asserts are entirely too round, while Jim gives as his motive a desire to broaden his face, which he claims is far too thin. Here's hoping that they both get suited.

Boston.

Fisher Bros. & Co., of Montvale, exhibited at Horticultural Hall recently a new form of Adiantum cuneatum, which originated from seed at their place. The foliage is finely cut into irregular shreds, presenting a very peculiar appearance. Fisher Bros. have a big stock of splendid adiantums for winter cutting, and a couple of houses of grapes which are almost ready. They made a big strike on Blanche Ferry sweet peas the past season.

The silver plate prize offered by Peter Henderson & Co. for a collection of annuals which was not awarded at the annual exhibition of the Mass. Hort. Society has been re-offered for the best six blooms of Louis Boehmer chrysanthemums, to be exhibited at the Boston show next November. The premium is valued at $25.

The cut flower commission business which has been carried on for so many years in Boston by Wm. J. Stewart, has been sold out to Lucius T. Peck and Geo. A. Sutherland, both of whom have been employes in the establishment for a num-



MARKET BOUQUETS—HOW NOT TO DO IT.

ber of years, and who start in business under most favorable auspices.

Mr. P. Welch, of the firm of Welch Bros., is quite sick, having been indisposed since before the Toronto meeting. His many friends will wish him a speedy recovery.

Mr. C. M. Atkinson, gardener to Mr. John L. Gardner, is also reported as seriously ill.

The annual exhibition of fruits and vegetables was held at Horticultural Hall on September 15, 16, and 17. Both halls were well filled with an unusually attractive exhibition. The collections of pears were very large, occupying almost the entire space of the upper hall. A most interesting display of the wild fruits of all countries was made by Jackson Dawson. There were over 100 kinds, comprising pyrus, prunus, and berberis in great variety, besides many rare and showy things. Many of the varieties were very beautiful, and the masses of coral, crimson, blue, and gold fruits could scarcely be excelled in brilliancy by any display of cut flowers. On the last day of the exhibition eight superb blooms of Cereus triangularis were received from the Harvard Botanic Garden and proved a great attraction.

The Village Improvement Association of the town of Winchester, a suburb of Boston, successfully opened the first horticultural exhibition ever held in the town on September 17. Many creditable exhibits of the products of Winchester in wild and cultivated flowers, plants, fruits, and vegetables were shown, including the plants grown by the children from seeds given them by the association last spring, for which premiums were offered, and in which there has been much enthusiasm shown by the little ones. Mr. Robert Farquhar delivered an interesting address to the children.

Mr. Samuel Henshaw, of Thompson, Conn., paid a flying visit to the fruit and vegetable show. He brought with him the finest variety of zinnias that have ever been seen here, which he says are the product of seed imported by R. & J. Farquhar, of Foston. There are two or three very striking new colors among them. Mr. Henshaw is an enthusiast in aquatics, and has several hundreds of seedling nymphæas in his hands, one of which, a seedling from N. nucipheron, he describes as a beautiful yellow, larger than N. marliacea chromatella. Aquatics have a big future.

Philadelphia.

The last few days have been very warm, forcing on the roses quite rapidly. The demand is increasing, however, and really good stock meets with ready sale. Shonbrun violets are now in, put up in bunches of 25 in each and sell for $3 a hundred. Tuberoses are finer this year than we have ever seen them before. There is a great sale for them at 5 cents a stalk. They wholesale for $3 a hundred.

George Campbell has sold his city store and stock to the Floral Exchange, of 618 Chestnut street, who will run this as a branch store. The Floral Exchange is owned by gentlemen whose names do not appear in the business but who are engaged in other pursuits and reputed to be very wealthy. They have a large range of greenhouses near Bristol, Pa., and endeavor to raise all the stock they need.

The building fever is still on, and new houses are reported in various parts of the city. W. Shellum has erected three houses on Gray's lane near Woodlawn avenue, and W. Alburger, his neighbor, has added a fine three-quarter span 100 feet long.

W. K. Harris is busily engaged moving stock to his new place. The doors of the greenhouses here opening into the shed are hung to swing either way and have no latches, this is quite an improvement on the old way when one carrying a box has to rest it on some thing to open the door. We noticed that some of the tables were being given a coating of mortar and cement, thus adding to their durability.

C. A. Knapp of Mermaid Station, Chestnut Hill, has erected a carnation house 80x20 and replaced his heating apparatus with a 50-horse power boiler.

Mr. Shields, the nominee of the republican party for the office of register of wills,

learned the florist business with Louis Bowman (now deceased) of Germantown. Mr. Shields soon tired of the business and has been for some time employed in the Register's office. As the salary and fees of the position amount to something like seventy-five thousand dollars a year Mr. Shields, if elected, may not be sorry that he laid aside the coal shovel and the watering can, and while the trade has lost on the one hand, they certainly ought to gain on the other, for with this income Mr. Shields will no doubt be able to gratify the love for flowers that first turned his attention to the business.

D. D. L. Farson has been seen on the alleys at the club room frequently of late and it is whispered that he has the Washington bee in his bonnet. X.

Chicago.

The weather is exciting the ire of all the growers. The dry summer has seriously checked plants in the field. Then the cold days and nights we had the early part of this month were an apparent warning of early frost and carnations were hurried into the houses and preparations made to "fire up." But the weather changed without warning and old Sol did some "firing up" that completely cast in the shade anything from a greenhouse boiler and for the last ten days stock has been under glass subject to a scorching sun.

The sudden change from abnormally cool to almost tropical heat has thrown such a stock of roses on the market as has not been seen at this season for many a year. The inevitable consequence follows in a totally demoralized trade. Roses which a week ago readily commanded $3 per 100 can now be bought at from $1 to $2.

Although roses are a perfect glut, carnations remain very scarce, the demand for good flowers exceeding the supply.

The first violets of the season were seen last Saturday and considering the season they were of fair quality. Owing no doubt in part to the hot weather trade is quiet.

Mr. O. P. Bassett of Hinsdale is cutting some splendid American Beauty roses of very deep color. His Duchess of Albany are also unusually well colored.

World's Fair matters are moving along briskly now. It was considered impracticable to change the location of the Horticultural Building as desired by Mr. Thorpe, but to accommodate the display he desires to make in front of the building the lagoon will be filled in so as to give him the space needed. Mr. Thorpe is well satisfied with this solution of the difficulty and it is pleasing to see the progress that is now being made in the work on the building. Mr. J. H. Laing, of John Laing & Sons, London, called on Mr. Thorpe last week and asked for space to make an exhibit of tuberous begonias. They propose to exhibit 10,000 plants. Chief Samuels of the Horticultural Department is in Washington this week attending the meeting of the American Pomological Society.

Battery D has been secured for holding the November exhibition of the Horticultural Society of Chicago and the committee of arrangements is now hard at work on the final details. Copies of the premium list, with a number of valuable specials that have been offered since the advance sheet was issued, will be printed and mailed shortly and advertising matter circulated. All the members of the society are very enthusiastic over the exhibition and it promises to be very decidedly in advance of any ever before given in this city. There was some talk of changing the date to a week earlier, but after full consideration it was decided to make no change.

The annual meeting of the Horticultural Society will be held in the club room of the Sherman House the afternoon of Saturday, October 3. At this meeting the proposed by-laws will be considered and there will be read a paper on "Orchids from the amateurs standpoint," by Mr. W. H. Chadwick, and one on a subject not yet determined by Mr. Jonathan Periam.

Messrs. Benthey, Curran, Hauswirth and Smyth were the recipients of numerous compliments on their work in arranging the decorations at the recent banquet. It is to be regretted that some of the members of the club received notice of the affair just too late to enable them to get to town in time to be present.

Last Saturday awards were made on the plant and cut flower exhibits at the exposition. John C. Ure took most of the plant premiums; M. F. Gallagher those for table designs, carnations and roses; J. C. Vaughan those for dahlias and gladioli. John Thorpe, Edgar Sanders and John Sell acted as judges.

Among recent visitors to the city were Mr. J. D. Carmody, of Evansville, Ind.; Mr. Paul Berkowitz, of H. Bayersdorfer & Co., Philadelphia.; and Mr. Carlos Liebert, Mexico City.

Superintendent Pettigrew of Lincoln Park has gone to Vicksburg, Miss., to attend the funeral of a relative.

Toronto.

The Gardeners' and Florists' Club held its first meeting since the convention on the 9th inst. Votes of thanks to the various persons who had assisted the club in any way, and congratulations that all the proceedings had passed off so well, were the order of the evening, and, with the exception of a lively passage of words between President Chambers and Treasurer Gilchrist, everything passed off with its usual harmony and vivacity. All accounts in connection with the convention were ordered to be paid, and the finance committee asked to bring in a statement of affairs next meeting.

Chrysanthemum show matters, also, were up for discussion, and the club resolved to stick to the one judge system (one for plants and one for flowers) and judge by points. The show will be held in the Horticultural Pavilion. Prices of admission to be 25 cents for adults, 10 cents for children. These prices seem to make most money in this city; both higher and lower have been tried, but with indifferent success. The experience of other clubs on this vexed, but all important subject might be interesting and instructive.

"Canada's great fair," held annually, in Toronto, at the Exhibition Grounds, is now in full swing, and the city is filled to overflowing with the agricultural community from way-back. Truly, we are getting a goodly share of visitors this year. There is a horticultural show in connection with this fair, but the writer, not having yet attended, is unable to speak intelligently concerning it. I hear, however, that from various causes which would not interest your readers, the display is rather meagre. Mr. Chambers, Park Superintentendent, Mr. Geo. Reeves, of Reservoir Park, and Messrs. Manton Bros., of Eglinton, are the principal exhibitors of plants. I believe I cannot say that I quite enjoy this fall fair flower show; it seems to have a rather depressing effect on one's nerves to see some one (who may be, perhaps, an excellent judge of turnips or mangel wurtzel) come up and squeeze a palm leaf maybe, and then smell his or her fingers, and then there are all the "Oh! how lovely," before a huge table bouquet resplendent with scarlet, pink, blue, and yellow, &c., &c., and nothing is allowed to be sold on the grounds to relieve the depression except tea and coffee. E.

OBITUARY.

CHARLES P. ANDERSON.

Charles P. Anderson, who has been well known for years as one of the leading rose growers for the New York market, died at his home in Flushing, L. I., on Wednesday evening, September 16, aged 46 years.

Mr. Anderson was born in Sheffield, England. His first horticultural training was at the establishment of B. S. Williams, from which he went to Kew Gardens, where he remained about four years. He came to this country when 21 years of age. He first entered the employ of Isaac Buchanan, afterward serving at an establishment in Elizabeth, N. J., and a private place up the Hudson, from which he went to T. J. Slaughter's rose-growing establishment at Madison, N. J., where he first became prominently known in the New York cut flower market. In 1883 he left Mr. Slaughter to take a responsible position with Mr. John Henderson, at Flushing, L. I., which position he retained until recently. During the years of his service with Mr. Henderson, that establishment came to the front as one of the leading rose-producing places in this country.

Mr. Anderson was a man of fine physique and commanding presence, of manly deportment and exceedingly well informed in his chosen business. He stood high in the esteem of his associates in the trade as a man of rare intelligence and sterling honor, whom to know was to respect. His advice was always sound and good, and no one could spend an hour in his company without feeling that his time had been well used, and that he had learned something of value from an honest man, of whose friendship one might well be proud. He was a strong and enthusiastic supporter of the S. A. F. in its earlier years, and has always been a regular attendant upon its annual conventions. The death three years ago of his employer and friend, Mr. John Henderson, to whom he was devotedly attached, affected him greatly, and the loss of so good a friend at that time undoubtedly aggravated and hastened the unfortunate change in his health and deportment, the loss of ambition and failure of intellect, which was becoming apparent to his friends, which he did not appear to have the power to stay, and which resulted later in his withdrawal from business and now in his death. It is impossible to forget or overlook the sad features connected with the blotting out of such a life at the very meridian of manhood, with opportunities and prospects such as rarely come to the lot of those engaged in our business, and the expressions of all those in the trade here when apprised of the sad event have been uniformly those of sorrow and regret.

The funeral on Sunday, 20th inst., was largely attended by the members of the N. Y. Florist Club, the president-elect and secretary of the S. A. F., and many of his associates in the trade. The pall bearers, selected from the members of the N. Y. Florist Club, were: Messrs. Jas. Dean,

Alex. Burns, W. S. Allen, Jas. Raynor, Theo. Roehrs, and J. Dann.

The tribute of the Florist Club was a beautiful anchor of roses, with base of lily of the valley. The interment was at Greenwood cemetery.

Mr. Anderson leaves a widow, two sons and one daughter. Among other men prominent in the trade who were present were Messrs. Brogan, Asmus, Trumpy, Wethered and others.

Milwaukee, Wis.

The Wisconsin Florists' and Gardeners' Club enjoyed an excursion September 8 from Milwaukee to Sheboygan, Wis., in response to an invitation from Mr. Otto Schucht. There was a large four-horse 'bus full of ladies and gentlemen who left Milwaukee on the morning train. The journey was very pleasant along the lake shore and we were met at the depot by Mr. Schucht, who gave us a ride out to his new place now in course of construction, where we were ushered to a pair of large tables well laden with good things.

After refreshments we were given a pleasant drive through the principal streets of the city and were surprised to note its thriftiness, improvements and growth in all lines; it was gratifying to the florists to see the taste displayed in beautiful lawns, trees and flowers and that our host's progress was second to no other line of industry. This assertion is made with full knowledge of the fact that a brewery as well as other important enterprises flourish there. The pansies in his garden were unusually fine; after our July and August heat it was a surprise to find such large and well colored flowers. The beds of seedling geraniums were interesting, particularly the one which our party decided to call Mrs. O. Schucht, a variegated variety, white stems, center of leaves white with green edge. Another indication of advancement was the practical demonstration of the fact that weeds are not essential to a florist's establishment. We frequently hear how lonesome a smoker becomes without his tobacco; I'm afraid some of us were guilty of the same unhealthy feeling in missing the weeds.

The new houses are being built on an elevation overlooking the city to the east, with Lake Michigan in the background, forming a beautiful picture. Although the improvements are but partially completed it was manifest that Mr. S. was aware that next to utility comes beauty among the essentials to a well arranged florist's establishment. Just at supper time we arrived at a small park, where we spent the evening eating, singing, speaking and dancing, returning home by moonlight. C. B. W.

Syracuse, N. Y.

The Central New York Horticultural Society has just been awarded two valuable prizes for fruit at the State Fair, held here Sept. 10 to 17. One was first prize, of $200, for largest and best collection of fruit especially designed for family purposes, collected and exhibited by any society or organization which has been in existence at least one year, and second prize, of $100, for largest and best collection of fruits especially designed for market purposes.

The first collection contained the following varieties: Apples 145, pears 80, plums 36, hot-house grapes 12, native grapes 40, peaches and nectarines 15, besides red and white currants, red and black raspberries, gooseberries, persimmons, bananas, grape fruit and several other varieties of rare fruit from Florida and California. The judges expressed themselves highly pleased with both collections, which were the finest ever seen in this part of the State, and, as the majority of the fruit was grown in this immediate vicinity, Syracusans feel proud of the honor. The society owes a deep debt of gratitude to its able president Mr. A. D. Perry, who has been most indefatigable in getting the collection together, and has spared neither time or pains to accomplish the object. With this money in the treasury the society will be greatly strengthened.

Messrs. P. R. Quinlan & Co. had a fine exhibit of palms and foliage plants, and were awarded the prizes in these classes. Several other members of the society secured prizes for plants, fruits, flowers and vegetables.

Messrs. Smiths & Powell had a very fine display of fruit from their extensive nurseries, not for competition. The judges' awards have not been made public at this writing.

The premium list for the fall show will soon be in the hands of the printer.

H. Y.

Detroit, Mich.

In the horticultural department of the Detroit Agricultural Fair and Exposition, which closed September 4, John Breitmeyer & Sons took first prize on table design, decoration and bouquets; the Detroit Floral Co. on general designs and baskets of flowers; Chas. Warncke on Rex begonias and on four flower beds of plants arranged in the exhibition hall. He also exhibited a floral design in the form of an owl of large size made of roses and asters. Geo. A. Heinl of Toledo, O., was the judge.

John Breitmeyer & Sons are building two houses 200x20 each, for roses, and one 100x20 for general stock.

Holznagle & Noel are building two houses 100x18 each, for chrysanthemums. They intend to have some fine plants at the coming exhibition in Chicago.

A. W. Steincke is building two houses for general stock, and Andrew Ferguson is adding a violet house, the largest in the city.

Society of Minnesota Florists.

The above society held its annual meeting at White Bear Lake, Thursday, September 10. Officers for the ensuing year were elected as follows: E. Nagel, Minneapolis, president; Aug. S. Swanson, St. Paul, vice president; R. Wessling, Minneapolis, secretary; E. Venzke, St. Paul, treasurer; executive committee: J. C. Sten, St. Paul; Edmund Behrens, St. Paul; Jacob Hartman, Minneapolis.

The afternoon was devoted to sociability and fishing. A bowling match was arranged and played by teams made up of St. Paul and Minneapolis members, the Minneapolis team winning the game. The attendance was not large, but all present heartily enjoyed themselves. Another match will soon be played by the teams from the two cities. R. W.

LANSING, MICH.—The displays of plants and flowers at the recent state fair were very creditable. The principal prize takers were Crabb & Hunter, Grand Rapids; Joseph B. Blessing, Jackson, and R. Mann & Son and C. S. Fitzsimmons, of Lansing.

SOUTH NORWALK, CONN.—Miss M. E. Adams has erected a greenhouse, with office attached, for commercial purposes.

News Notes.

BOSKOOP, HOLLAND.—Mr. P. Ouwerkerk sailed on the steamer Rotterdam September 9, for his annual business trip in America.

SOUTH BEND, IND.—Mr. Wm. D. Rettie, of the firm of Treanor & Rettie, the florists, was united in marriage September 9, to Miss Ida Treanor.

NEW BRITAIN, CONN.—The Hort. Society is making arrangements to hold a chrysanthemum show November 10 to 12. A premium list is now being prepared.

BUFFALO.—The premiums offered for competition at the November exhibition of the Buffalo Florists' Club amount to $816.50. The exhibition will be held in Music Hall.

NEWARK, N. J.—In making arrangements for the annual fair of the State Agricultural Society, to be held at Waverly, the society has decided to add a floral and horticultural exhibit.

DETROIT.—Exhibition plants for the coming show are looking well. The musical features of the show will be something of a departure. Various musical clubs and societies have been made interested in the show, and a different organization will furnish music each evening.

LEXINGTON, KY.—At the Bourbon Co. Fair, Florist W. S. Bell, of this city, took premiums on the following displays: Largest and finest display of foliage and greenhouse plants; greatest variety of ferns; greatest variety of foliage plants; finest display of caladiums, and finest display of palms.

CINCINNATI.—Owners of property adjacent to the site of the proposed flower market are delaying the work on that much needed structure. The florists have, however, retained counsel, and will fight the matter through, so that the benefits of the Holroyd bequest shall not be lost to them and to the city.

ELIZABETH, N. J.—The Elizabeth Hort. Society gave an exhibition of asters recently that was very interesting. Early in the spring the society distributed over 500 packages of aster seed among the children of this city and vicinity, and the exhibition was of the flowers grown from this seed. Many of the flowers reflected much credit on the youthful growers. The sum of $50 was awarded in premiums.

QUEBEC, CANADA.—The September exhibition of the Quebec Horticultural Society was very successful, the display being excellent and the attendance much larger than on former occasions. A departure was made in holding the exhibition in large tents on the esplanade. Those receiving first premiums were: Messrs. Thomas Todd, Alex. Sinclair, H. Meyer, J. E. Monaghan, J. O'Neil, David Bell, Miss Ecuyer, Jacques Verret, and H. Gowen.

HARTFORD, CONN.—The display of plants and flowers at the fall exhibition of the Hartford County Hort. Society was very creditable. W. B. May received first prizes for "best display of greenhouse and stove plants;" "best collection of palms," and "best collection of ferns." Premiums were also awarded to Mrs. A. Nash for asters, to A. N. Pierson, of Cromwell, for tuberous-rooted begonias, and to J. H. Bardain for collection of seedling gloxinias.

The Color Question.

Having a deep interest in this attempt to settle the color question, I would like to give some of my ideas and if they do not quite agree with someone else's opinion, they are not given to arouse any ill-feeling, but as the ideas of one individual who is prone to mistakes, like nearly all humanity.

I think the different ideas and opinions on this subject need to be brought out and there is certainly need of much study upon it to bring harmony out of confusion, such as now exists in descriptive catalogues. It will be no small task, and will take a long time yet, but if we work together patiently, and try to be helpful to each other, the matter will take much less time to settle and be a deal more satisfactory to all concerned.

Why not let the colors in dry goods be unnoticed until we have studied more faithfully the colors in Nature's paint-box, and then with our box of primary colors study what the composite shades are made from and let the predominating color give the main part of the name, as: Blue green, yellow green, or gray green in dark, light or medium shades.

In the color red, I think scarlet should be the basis to work from in making all the shades of red and pink, and Salvia splendens fills my idea of scarlet. Now take a bit of scarlet and dabble yellow with it, and you get the shades ranging down to orange, and by a skillful use of the yellow and white paint working upon the red, comes the various shades of salmon pink. Now go back to your scarlet and mix a bit of blue with it, and behold! You no longer have anything you can call scarlet, but if the red predominates it is crimson, and under this head comes carmine and majenta; lighten this with white, and you get the shades of pink in the sweet peas, and that class of pink shades; add more blue, and then comes a new color to be transformed into the many puzzling and much misused shades of purple, heliotrope, lavender, mauve, etc., which may all be headed under purple as the basis. We find goods in the shops called heliotrope and old rose that are no such colors or shades as were ever found in either of these flowers, and I doubt if in any other flower.

Now take up the color blue; one gets easily confused if they do not draw a line between clear blue, and blue mixed with red; blue is no longer blue when the red is with it. Although in many flowers it will look decidedly blue as they are placed by some contrasting color in the yellow or orange shades. There are pansies that seem to me a true blue, but I think if they were placed beside a true blue color the purple would seem to predominate in them. I know of but very few flowers that I think true blue, but there may be many that I have not seen. There are said to be blue sweet peas, blue asters, verbenas and ageratum. I can only say, they are not blue to me, but one of the shades of purple. To me the sky is true blue when the atmosphere is clear and the sun is high.

The yellow and orange shades are well represented in the marigolds and tropæolums, but when you say tropæolum yellow, who is going to know what shade you mean, for the lightest, darkest, and all intermediate shades are found in this variety of flowers, and also in the marigolds.

Then come the various shades of green, blue green, yellow green, gray green, red, bronze, etc., according as some color predominates, and yet the basis is green and composed of two distinct colors.

We are "looking through a glass darkly" now, but let us study and work, and by and by a new light will come upon our work and we shall all be wiser and happier. L. S.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a gardener and florist; 9 years' experience Private place preferred
A. J. Box 533, Lake Geneva, Wis.

SITUATION WANTED—By a gardener, competent in every branch of the business—private place—will take charge. Address M, care Am Florist.

SITUATION WANTED—By young man 20 years of age; had 5 years' experience in greenhouse work; can give good references. Address
A. S. NICOL, Kingston, Pa.

SITUATION WANTED—By landscape gardener and florist; age 25; commercial or private, near Chicago. References. J. NORMANN,
Kaye's Park, Lake Geneva, Wis.

SITUATION WANTED—By a Scotchman of 20 years' experience in growing roses, and all sorts of first-class florist work; single; best of references. Address GARDENER, box 262, Stoughton, Mass.

SITUATION WANTED—To put up steam or water heating apparatus in greenhouses. Or will work by contract. Thoroughly experienced. Address CHAS. EICHENBAUM, 742 N. Ashland Ave., Chicago.

SITUATION WANTED—By a first-class florist; German, single, age 24 years; thorough knowledge of all branches; growing roses, carnations, palms, propagating, cut flowers, and chrysanthemums for exhibition. Southern or western state preferred. Best references. Address
F G. care American Florist Chicago.

SITUATION WANTED—By a good all round man as manager, florist's or private establishment; 25 years practice, private and commercial in England and America. Successful plantsman and cut flower grower; also quick and tasteful at floral work. Abstainer; married, one child. Address
FLORIST, P. O., Victoria, B. C. Canada.

SITUATION WANTED—By gardener of executive ability and experience of all requisites and routine of commercial place, inside and outside operation, general propagation, successful growing of cut flowers, roses, pot plants, accessories to the nurseries, etc. Address
HORTICULTURAL, care American Florist.

SITUATION WANTED—By a first-class florist and gardener; German; 10 years' experience in growing roses, carnations, ferns and all kinds of other plants. Good cut flower worker and decorator. Very industrious; honest; first-class references; as head gardener on private or commercial place. Address G. F. DIEZ, care Schemof & Schubart,
Wheeling, West Va.

WANTED—To lease or buy greenhouses, dwelling and land near good market. Address
H WISE, Mt. Prospect Ave., Newark, N. J.

WANTED—New or second-hand steam heater suitable for use in a factory. Address, stating capacity etc. S. M. ISBELL & Co., Jackson, Mich.

WANTED IMMEDIATELY—A small hot water boiler, to heat 600 feet 4-inch pipe. State price. J. GOODE & Co., cor. 53rd St. and Kimbark Ave.,
Hyde Park, Chicago.

WANTED—A thoroughly competent rose grower, capable of managing a large establishment. Apply HORTICOLE,
Grand Central Hotel, New York City.

WANTED—Young man about 20 with some experience in greenhouse work, to board with owner. State experience and wages expected. Address
FLORIST, 490 South State St., Elgin Ill.

WANTED—A good florist to take charge of a number of houses. Must understand propagating. A good place for the proper man Address
H F M, care H. A. Dreer, Philadelphia, Pa.

WANTED—A man who has been successful in the management of a first class horticultural establishment, including a knowledge of forestry. Apply HORTICOLE,
Grand Central Hotel, New York City.

WANTED—For a retail flower store in Chicago, a good salesman or lady; could run store on wages or interest. Must be sober and able One that is acquainted with book-keeping preferred.
A. FUCHS, 459 E. Division St., Chicago

WANTED IMMEDIATELY Young man, German, as assistant in greenhouse. Wages $10.00 a month and board. Steady work for the right man, and salary will be increased in time
O. R. DEMMLER, 635 Jefferson St., Eau Claire, Wis

WANTED Reliable all round florist, under 30 years, for general work, in a town of 30,000 inhabitants. Must know something of building A smart salesman with business experience and first-class references. Prefer single man. Address with full particulars, WEBSTER,
care J. C. Vaughan, Chicago.

FOR SALE CHEAP—Two Scollay and one Weathered second-hand Nos. 5 hot water boilers.
JAMES HORAN, Bridgeport, Conn.

FOR SALE—Only greenhouse in growing town of 5,000 inhabitants doing a good business. Best of reasons given Address
MRS. E. E. UNLAND, Beardstown, Ill.

NOTICE.

WANTED—A man to propagate and do most any kind of work; also a man to work in the greenhouse and fire a low pressure steam boiler. Address
H. MOORE, 54 Beale St., Memphis, Tenn.

SEED TRADE.

SITUATION WANTED—A position as seedsman, traveler, or to start a seed business; 25 years' experience in the wholesale and retail trade. Highest testimonials. Address T. WEBSTER,
37 Childs Street, Hyde Park, Mass.

FOR RENT.

Three greenhouses, with dwelling, in good condition, situated just outside of Milwaukee, suitable for growing for either wholesale or retail trade. For particulars, address
WISCONSIN FLOWER EXCHANGE,
131 Mason Street, MILWAUKEE, WIS.

TO LET ON LEASE.

For a term of years, one of the **Largest** and most **Complete** Greenhouse establishments in the **West.** For particulars, apply to

HORTICOLE,
Grand Central Hotel New York City.

FOR SALE AT A BARGAIN.

A first-class business in a live town near St Paul. Houses well stocked with everything needed for the coming season. Must be sold through sudden illness. Proof, profits last season over $1,000 Two-thirds purchase money can remain on long time at 6 per cent. Address X, care American Florist.

A SPLENDID OPPORTUNITY.

WANTED Not a pretender; not a bag of wind; not a fancy man at fancy salary; not one who says "yes I know it all"; and then puts in 300,000 cuttings and has only 25,000 Roses to show for a whole year's work I want a MAN in every sense of the term; a good sensible, honest, sober, industrious and thoroughly reliable man One ready to show that he can grow H. P., climbing, moss and tea roses in large quantities The right man can have a LIFE job and in time an interest in a growing business. Address with references,
FRANKLIN, care American Florist.

A CARD.

PUBLISHERS AM. FLORIST:

The advertisement I sent you to sell a No. 6 Furman boiler has brought such a flood of inquiries as to why I want to sell it, and what is the matter with it, that I am afraid it is giving the public a bad impression as to its qualities, and thereby, to some extent, damaging the manufacturers. I wish it distinctly understood in justice to the manufacturers as well as to the good qualities of the Furman boiler that it is all they claim for it; and my only reason for selling it is I am putting in one large one that will do the work of three small ones, thereby saving the labor of feeding three furnaces and making one do all the work.

I will say in distinctly understood that the Fu man is the best boiler I ever had in every sense of the word, and that the Furman Manufacturing Co. are the most liberal gentlemen to deal with I have met in 50 years' experience. Yours truly,
GEO. HINMAN, Atlanta, Ga.

DAHLIA FLOWERS.

FOR FAIRS, EXHIBITIONS, ETC.

WE ARE CUTTING ABOUT TWO THOUSAND PER DAY UNTIL FROST.

Price $1 50 per 100.

VAUGHAN'S GREENHOUSES,
WESTERN SPRINGS, ILL.

THE

AMERICAN FLORIST

IS STRICTLY

A TRADE JOURNAL

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ISSUED WEEKLY. $1.00 PER YEAR IN ADVANCE

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We have a splendid stock of Kentias in 2½, 4 and 5-inch pots, which we offer at exceptionally low prices. Plants are of our own growing and are strong and stocky. An inspection of stock solicited. 25 plants sold at 100 rates.

	In. pots.	In. high.	Per 100
Kentia Forsteriana.....	2½	—	$15.00
" "	4	15	35.00
" "	4	18	50.00
" "	5	24	90.00
" " (heavier)..	5	24	100.00
" "	6	36	200.00
Kentia Balmoreana.....	2½	—	15.00
" "	4	12	35.00
" "	4	15	50.00
" "	5	18	100.00

ROSES.

	Per 100
Waban, from 2½-in. pots, healthy stock	$15.00
Augustine Guinoisseau or White La France strong plants from 2½-in. pots.....	12.00
All the standard bedding roses at	4.00
$40.00 per 1000.	

Send in your list to be priced.

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SIEBRECHT & WADLEY,

Rose Hill Nurseries,
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New and Rare Plants — Hardy Plants.



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CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

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COLUMBIAN ORCHIDS

Just to hand. Cattleya Trianæ Schroederæ the rare and very fragrant winter bloomer; Cattleya Trianæ, the old favorite, and also many Odontoglossoms, Oncidiums, etc., etc., at greatly reduced prices.
Write for price list.

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The finest stock in the WORLD. Nearly five acres devoted to their culture.

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Thirty minutes from London.

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A large collection of Hot House and Greenhouse Plants carefully grown at low rates.
ORCHIDS—A very extensive stock. East Indian, Mexican, Central South American, etc.
Hardy Perennials, Roses, Clematis, Pæonias, Phloxes, Japanese Iris etc.
New and Standard fruits; rare and beautiful Trees, Shrubs, Evergreens, etc. Catalogues on application.

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The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10.00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each.

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DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.
Mention American Florist.

COLEUS Verschaffeltii, Golden Bedder, Golden Verschaffeltii, Sunset, from 2½-in. pots, $20 per 1000; $2.50 per 100. From 3-in. pots, $25 per 1000; $3 per 100. Large stock plants, $35 per 1000; $4 per 100. All orders should be accompanied by money, otherwise shipped C. O. D.

JOHN RECK, Bridgeport, Conn.

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Of over forty leading varieties. Send for Price list.

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CARNATION PLANTS,

FROM OPEN GROUND.

Mrs. Fisher, Portia,
Hinze's White, May Queen,
Fred. Creighton,
and other varieties, at $6.00 per 100.

L. HARRISII and ROMAN HYACINTHS,
First Quality, low.
Fresh Florists' Seeds of all kinds.
Send for Trade List.

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Field grown plants of the splendid New White Carnation LIZZIE McGOWAN, $10.00 per 100. Late Spring struck plants, $5 00 per 100.
Late struck plants of LAMBORN, $5 00 per 100.
Very fine plants of HINZE'S WHITE, $5 00 per 100. Cash with the order. Address

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The above offer is good only while plants remain unsold.

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SEVERAL THOUSAND FIELD-GROWN

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SNOWDON, large plants.....$3.50 per 100
HINZE'S WHITE, large plants... 5.00 "

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HINZE'S WHITE,
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Large, healthy plants, free from disease.

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Surplus Stock for Sale Cheap.

ROSES: Perles, La France, Niphetos, Brides, Gontiers and Bon Silenes.
CARNATIONS: Field grown; leading varieties.
VIOLETS: Marie Louise, from 3 and 4-in. pots.
PRICES ON APPLICATION.

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Only a few thousand left, from 2½-inch pots, equal to ordinary 3-inch, at $1.50 per 100; $12.00 per 1000.

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ATTENTION NURSERYMEN.

I have a fine lot of choice, clean seed of the following kinds, which I will send by mail prepaid, while they last, and guaranteed fresh and good at prices named.

	Per lb.
Cladrastis tinctoria (yellow wood), clean seed..	$4.00
Magnolia tripetal, large leaved. " "	1 25
" acuminata. " "	1.25
Chionanthus Virginica, white fringe " "	2.00
Calycanthus, sweet shrub 10 lbs. $4.00.	.50
American Linden, basswood..... 10 lbs. $4.00.	.50

Cladrastis tinctoria, or Virgila lutea is one of the finest and handsomest ornamental trees of North America. Write for prices of other tree seeds. Order at once. Address

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1000 SMILAX FROM 2½-in. POTS,

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Address DANIEL LEE, Madison, Ohio.

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A few thousand left of good, strong, field-grown plants, HARRISON, SILVER SPRAY, etc., $5.00 to $10 00 per 100.

SNOWFLAKE DAISY

Now is the best time to plant this fine variety for winter bloom. Every florist should have a good stock of this splendid daisy for cut flower work and general use. "No flower to equal it when properly grown." Strong plants, $1.00 per doz. free by mail; $5 00 per 100 by express.

SMILAX.

Good, strong plants from 2-inch pots, $1 50 per 100; $12.00 per 1000. No better can be bought anywhere for less than $20.00 per 1000. Order at once as stock is going fast. Send 10c. for samples.
Satisfaction guaranteed.

FRED SCHNEIDER, Wholesale Florist,
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CARNATIONS.

Field grown—Hinze's White, Silver Spray, Etc., $6.00 per 100.
SMILAX PLANTS—Strong plants, worth double the money, $1.50 per 10 .
CANE PLANT STAKES—5 to 6 ft. long, $3 00 per 1000.
CUT SMILAX—15 cents per string.

F. WALKER & CO.,
644½ Fourth Ave., LOUISVILLE, KY.

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FIELD GROWN plants ready in September and October; leading varieties. Prices per circular.
VIOLETS—Marie Louise and Swanley White. Young clumps for winter forcing $5 00 per 100.
Smilax—Strong young plants from 3-inch pots, $2 50 per 100.
ALYSSUM—Double for winter bloom, from 3-inch pots, $4 00 per 100. Send for circular.

W. R. SHELMIRE, Avondale, Chester Co., Pa.

10,000 FIELD GROWN CARNATIONS

of the following varieties: Fred Creighton, Hinze's White, Jeannette, Peter Henderson and Century. 1st size $10. 2nd size $8 per 100
5000 dbl. white and dbl. pink Bouvardia, $10 per 100.
10,000 Smilax $8 00 per 100; $25 00 per 1000
On receipt of 10 cts. in stamps for each plant, I will send samples of above by express.

JAMES HORAN, Florist,
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CARNATIONS.

Fine field grown plants, perfectly healthy, 3000 Hinze's White, $5.00 per 100; and other varieties, prices on application.
10,000 Pansy plants, finest strain in the country, $5.00 per 1000.

Address GEO. B. WHITEHEAD,
GREEN'S FARMS, CONN.

FERNS. FERNS.

We offer well established in 2½-inch pots, at
$3 00 PER 100.

Adiantum cuneatum, Anemia phylisus,
Adiantum pubescens, Onychium japonicum,
Pteris serrulata.

JOSEPH KIFT, West Chester, Pa.

PUBLIC SALE POSTPONED.

Having disposed of my greenhouses and part of my stock of plants, the sale of the balance of the stock will be postponed until further notice; in the meantime my large stock of azaleas, camellias, stove and greenhouse plants will continue at private sale at less than half the wholesale rates. Prices quoted on application.

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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

Gloucester, Mass., Sept. 25–26—Cape Ann Hort. Society. Wm. Lufkin, Sec'y.

Los Angeles, Cal., Oct. 27-31—Southern California Hort. Society. H. W. Kruckeberg, Sec'y.

Louisville, Ky., Nov. 2-7—Louisville Florists.

New York, Nov. 2–8—Madison Square Garden. J. W. Morrisey, Sec'y.

Hartford, Conn., Nov. 3–5—Hartford Co. Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.

Boston, Nov. 3–6—Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont St.

Milwaukee, Wis., Nov. 3–6—Wisconsin Florists' and Gardeners' Club. W. H. Ellis, Sec'y, 133 Mason St.

Detroit, Mich., Nov. 3–7—Detroit Florists. Robert Flowerday, Sec'y, 460 John R. street.

Providence, R. I., Nov. 4–6—Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

Wooster, O., Nov. 4–6—Wooster Floral Club. W. A. Porter, Sec'y.

Erie, Pa., Nov. 5–7—Erie Chrysanthemum Club. H. Tong, Sec'y.

Bay City, Mich., Nov. 5–11—Bay County Hort. Society. T. J. Cooper, Sec'y, 811 North Water street.

Pittsburg, Nov. 10–12—Pittsburg and Allegheny Florists' and Gardeners' Club. G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.

Newport, R. I., Nov. 10-12—Newport Horticultural Society. John Butler, Sec'y, Berkeley Ave.

Toronto, Ont., Nov. 10–12—Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School, Toronto.

Bedford, Mass., Nov. 10–12—New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.

Washington, D. C., Nov. 10-12—Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St. N. W.

London, Ont., Nov. 10-12—Forest City Florists' and Gardeners' Society. Wm. Gammage, Sec'y, P. O. box 155.

Oshkosh, Wis., Nov. 10–12—Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.

New Britain, Conn., Nov. 10–12—New Britain Hort. Society.

Philadelphia, Nov. 10–13—Penna. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

Chicago, Nov. 10–13—Hort. Society of Chicago. James D. Raynolds, Sec'y, Riverside, Ill.

Minneapolis, Minn., Nov 10-13—Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.

Baltimore, Nov. 10–13—Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.

Indianapolis, Nov. 10–14—Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.

Germantown, Pa., Nov. 10-14—Germantown Hort. Society. Thos. E. Meehan, Sec'y.

Worcester, Mass., Nov. 11–12—Worcester County Hort. Society. Edward W. Lincoln, Sec'y, 5 Oak St.

Galt, Ont., Nov. 11-12—Galt Hort. Society. Thos. Vair, Sec'y.

Montreal, Nov. 11–12—Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.

St. Louis, Nov. 11–13—St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania avenue.

Springfield, Mass., Nov. 11–13—Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St.

Utica, N. Y., Nov. 11–13—Utica Florists' Club. J. C. Spencer, Sec'y.

Buffalo, Nov. 12-14—Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main Street.

Syracuse, N. Y., Nov. 17-18—Central New York Hort. Society. H. Youell, Sec'y, 228 Beecher street.

New Orleans, La., Nov. 17–19—New Orleans Horticultural Society. Charles Wise, Sec'y, Third and Prytania Sts.

New Haven, Conn., Nov. ————New Haven Chrysanthemum Club. Miss Francis S. Ives, Sec'y, 478 Orange St.

San Francisco, Nov. ———— —California State Floral Society. Emory E. Smith, Sec'y, 321 Market St.

Little Rock, Ark., Nov. ———— —Little Rock Florists' Club. D. M. Tipton, Sec'y.

Philadelphia, March 29–April 1—Penn. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad street.

IN OUR LAST issue appeared a request for opinions as to the advisability of the organization of an American Carnation Society. We trust that the expression of opinion will be full and complete. That there is work for such a society to do none will doubt; the only question is, can such a society now be placed upon an enduring foundation, and is the number of strictly carnation growers large enough to make the society what it ought to be? Whatever is done, let the foundation be laid right, and this can be done only by working from carefully formulated plans. Think the matter over well and talk it over well before a meeting for organization is held and be prepared to submit a well digested plan for consideration. We shall be pleased to hear from any of our readers on this subject.

VARIEGATED-FLOWERED MORNING GLORIES.—Mrs. H. M. Hickcox, Chariton, Ia., has sent us some very distinctly carnation-striped blossoms of a morning glory. While the striping of these flowers is unusually well defined, there is nothing new in the variegation; striped dwarf growing morning glories have been in cultivation for years, but never become popular because of the inconstancy in the variegation, but Mrs. Hickcox writes us that the one from which she sends flowers is a free climbing vine the same as Convolvulus major and not a dwarf grower.

A SPECIMEN flower of their new hibiscus, "Crimson Eye," is sent us by Messrs. Wm. F. Bassett & Son, Hammonton, N. J. The flower is very large, in color white, with crimson eye, and decidedly bold and striking in appearance. Mr. Bassett writes that it comes true from seed, and that some of the flowers measure over eight inches across when fully developed.

THE Association of American Cemetery Superintendents, which was confronted by a deficit of nearly $100 at the Boston convention, now has a balance of $260 in the treasury. In a recent report the secretary speaks of the Chicago convention as the most successful session of the association.

"READER OF FLORIST" will find the information desired regarding the forcing of Roman hyacinths for Christmas in a communication from Mr. W. Scott, that appeared on page 620 of our issue for March 26 last (No. 147.)

THE notes on "New plants in Canada" that appeared on page 126 of last issue were from the pen of Mr. Wm. Falconer. The signature was accidentally left out.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Catalogues Received.

Z. De Forest Ely & Co., Philadelphia, bulbs; Geo. Hancock, Grand Haven, Mich., carnations; Geo. S. Josselyn, Fredonia, N. Y., grape vines; Gause & Bissell, Richmond, Ind., bulbs and plants; Rea Bros., Norwood, Mass , hardy herbaceous perennials; J. A. Simmers, Toronto, Ont., bulbs; Peter Henderson & Co., New York, bulbs; H. Cannell & Sons, Swanley, Kent, England, plants and bulbs; W. B. Hartland, Cork, Ireland, bulbs; H. Gusmus, Klagenfurt, Oesterreich, Germany, bulbs; Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y., the Florida steam and hot water heaters; F. W. Ritter & Co., Dayton, O., bulbs; Selover & Atwood, Geneva, N. Y., nursery stock; Wm. B. Reed, Chambersburg, Pa., nursery stock; Dr. H. Schroeder, Bloomington, Ill., nursery stock; H. G. Faust & Co., Philadelphia, bulbs and seeds; C. B. Whitnall & Co., Milwaukee, Wis., bulbs; Bush & Son and Meissner, Bushberg, Mo., grape vines; J. H. H. Boyd, Cagle, Tenn., tree seeds.

New Corporations.

CHICAGO.—"The Tree Transplanting and Improvement Company"; capital stock $1,000,000; business "to take up and transport, reset and transplant shrubs, trees, posts, columns, pillars and piers and all business incident thereto"; promoters, John S. Beadry, Ira H. Rea and Albert Mendel.

PORTLAND, N. Y.—The "C. S. Curtice Company"; capital stock $40,000; to conduct a general nursery business; promoters, C. S. Curtice and Elisha H. Fay, Portland, and Jonas Martin, Brockton, N. Y.

ALERT, IND.—"The Alert Nursery Company"; capital stock $20,000; business, "to plant, cultivate, sell, buy and furnish all kinds of nursery stock"; promoters, Kennedy F. Clapp, Scipio, Ind., Milton R. Tremain and Joseph Kelly, Alert, Ind.

ALBANY, OREGON.—The "Tolo Orchard Company"; capital stock $50,000; general nursery business; promoters, Jay W. Blain, L. E. Blain, S. E. Young, W. T. Radir, E. S. Barrows.

MINNEAPOLIS, MINN.—The "Fairmount Orchard Company"; capital stock $66,000; business, "to cultivate and improve farm, garden or horticultural lands in Minnesota or elsewhere in the U. S., acquire and hold lands for this purpose, sell fruit, nut and other products of said lands"; promoters, Oliver P. Carter, David C. Bell, John I. Bell, William D. Gregory, all of Minneapolis, Minn., A. B. Sprague, Fairmont, Cal., J. A. West, Milwaukee, Wis., J. H. Rhodes, Little Falls, Minn.

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Full line of FLORISTS' SUPPLIES.

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SPECIALTY.—Filling Telegraphic Orders.
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Large lots at very low rates. Address
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BUFFALO, N. Y.

FLORAL DESIGNS.
The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address (with $3.50 for the book)
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Box 655, HARRISBURG, PA.

HAIL Lock the door BEFORE the horse is stolen. Do it NOW!
JOHN G. ESLER, Sec'y F. H. A.,
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NEW YORK, Sept. 21.

Roses, Beauties	10.00 @ 15.00
" Mermet	2.00 @ 3.00
" Bride	2.00 @ 3.00
" Niphetos	2.00 @ 3.00
" Wootton	2.00 @ 3.00
" Cusin	2.00 @ 3.00
" Watteville	3.00 @ 4.00
" Hoste	2.00 @ 3.00
" Perle	2.00 @ 3.00
" Gontier	1.00
La France	4.00 @ 6.00
Carnations	.75 @ 1.00
Valley	4.00
Smilax	12.00
Adiantums	1.00
Gladiolus	1.00 @ 2.00
Dahlias	.50

CHICAGO, Sept 22.

Roses, Am. Beauties	10.00 @ 12.50
" Wabans, Mermets	3.00 @ 4.00
" La France, Albany	3.00 @ 4.00
" Brides	3.00 @ 4.50
" Wootton	2.00 @ 3.00
" Perle, Niphetos	2.00 @ 3.00
" Gontiers	2.00
Carnations, long	1.00 @ 1.50
Carnations, short	.50
L. auratum	8.00
Asters	.50
Smilax	15.00
Adiantums	1.00

PHILADELPHIA, Sept. 21.

Roses, Beauties	8.00 @ 15.00
" La France, Albany	3.00 @ 4.00
" Mermets, Brides	3.00 @ 4.00
" Perles, Niphetos	2.00 @ 3.00
" Gontiers	1.00
" Marie Guillots	2.00
Carnations, long	1.00
Carnations, short	.50
Asters	.50 @ .75
Valley	5.00
Tuberoses, stalks	2.00 @ 4.00
Smilax	15.00 @ 20.00
Adiantums	1.00
Gladiolus	2.00

BOSTON, Sept. 21.

Roses, fancy	4.00 @ 6.00
Carnations	.75 @ 1.50
Asters	1.00
Gladiolus	4.00
Lilies, album	6.00
Hydrangeas	4.00
Sunflowers	1.50
Smilax	10.00 @ 12.00
Asparagus	50.00
Adiantums	1.00
Adiantum Farleyense	20.00

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CUT FLOWERS.
GOOD ROSES FOR SUMMER TRADE.
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HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
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CUT SMILAX
At Summer prices—15 cents. Quality first class. Shipped on shortest notice. Telephone No. 15.
JOS. E. BONSALL, SALEM, OHIO

Edward C. Horan,
WHOLESALE FLORIST,
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

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LILY OF THE VALLEY, and the Choicest ROSES for the fall and winter season.

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Orders to be shipped will receive prompt attention.

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51 West 30th St., NEW YORK.
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WHOLESALE FLORIST
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NEW YORK.

A. S. Burns. J. I. Raynor.
BURNS & RAYNOR,
WHOLESALE FLORISTS,
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13th and Chestnut Sts.,
PHILADELPHIA.
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The Western Trade Solicited.
Write or Telegraph.
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77 7th Street S. - - Minneapolis, Minn.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

Failure of James Vick, Seedsman.

This event, while not entirely unexpected in the American trade, is too important not to create a decided sensation, both in this country and Europe, and must be a matter of general regret. We give below extracts from the Rochester papers covering such details as the press of that city were able to secure.

The liabilities are divided about as follows:

Flour City savings bank	$ 75,000
First mortgage held by the Mutual Life Insurance company upon the seed-house property	34,000
Due Ezra R. Andrews on notes	12,000
Other liabilities, about	54,000
Total (estimated)	$175,000

The estimated assets are divided about as follows:

Seed house land on East avenue	$ 10,000
Buildings	40,000
Seed house farm property	30,000
Personal property	40,000
Accounts, stock, good will of business, and miscellaneous assets	50,000
Total	$240,000

According to this there is about $50,000 due to the seed trade fraternity, considerable of it to foreign houses.

The immediate cause of the closing up of affairs and the appointment of a receiver was the recording on September 9 of the Flour City Bank's mortgage of $85,000. When this became a matter of public record several suits were immediately commenced.

James Vick carried on the seed business which bears his name for many years, but the corporation was organized as recently as 1885. Some of its principal stockholders are James Vick, Frank H. Vick, Charles H. Vick, and William Stewart.

Up to a few days ago it was confidently expected by the members of the corporation that the Flour City Bank, which had carried them through several years, would again extend its accommodation. Last week they notified the bank that they would like to extend their line of discounts. The bank was unwilling to do this without further security. Neither the Vicks nor the gentleman who had been backing them heretofore were able to do this, and the bank considered that while it was now amply secured, it did not care to venture further. The seed season is over for the present year, and there will be little or no income until next spring. The Vicks were unable to obtain money to tide over the crisis, and their notes began to go to protest. To cap the climax the bank filed a chattel mortgage for $85,000 and has just levied upon the property. E. R. Andrews, another creditor to the amount of $12,000 for printing, has also levied on all the bulbs, seeds and roots at the seed establishment, a quantity of paper stock under attachment at E. R. Andrews' office, a number of horses and wagons and a quantity of nursery stock on the Vick farm at Brighton, and on the nursery stock on a farm in the town of Greece belonging to the corporation.

James Vick, as an individual, and perhaps one or more of his brothers will carry on the business and will take care of all orders and preserve the good will of customers. If an advantageous sale is made of the real estate, a farm will be purchased for greenhouse purposes farther out from the city and its taxes. The Vicks have been land poor for years. They have been given promises of backing when they start in on a new basis.

At a meeting of the corporation September 17 the three directors, Frank H. Vick, Charles H. Vick and James Vick, all resigned in order that there might be nothing to hinder the placing of the entire assets in the hands of the supreme court. Frank H. Vick also resigned his position as president of the corporation, Charles H. Vick as secretary, and James Vick as treasurer. Selden S. Brown was selected to act as attorney for the corporation, and Joseph B. Fuller, an employe of the concern at the East avenue seed house, as the person on whom papers are to be served.

On September 18 Porter M. French, an attorney, was appointed receiver under bonds of $50,000.

The many friends of Mr. Joseph B. Fuller, the veteran manager of the vegetable seed department, will regret to learn that he is a creditor to the amount of about $4000.

Lima Beans in California.

Whatever California undertakes is usually done on a gigantic scale, and this is not less true of her seed crops than of other enterprises there. A few details as to the cultivation of Lima beans in the Santa Barbara district may interest the seed trade. The quantity of seed used per acre is from 25 to 35 pounds, planted 3 feet apart, from which a yield may be expected of from 1,000 to 2,500 pounds per acre. The crop of 1890 was estimated at 1,000 car loads of 20,000 pounds per car. The crop of 1891 is estimated at 2,000 car loads—one grower having planted this year in one piece 1,300 acres. This crop is estimated at over 100 car loads. Of course these beans are not trained but allowed to run over the ground and when in full growth form a waving sea of foliage standing 3 to 4 feet high. In harvesting the crop a V shaped implement is used, consisting of two boards about 5 feet long and 12 inches wide, shod with steel shear runners and a rolling coulter made from a circular saw is set in the front end of this V. This coulter cuts the vines and the two side runners separate them into winrows. The rear of each runner has projecting iron arms with five teeth to shake off the dirt from the vines. Henderson's Lima bean has proved too small for a profitable market crop, and Burpee's new Lima has not yet been experimented with.

THE ALLEGED power of camphor to awaken seeds, or stimulate their germination, has been shown by the experiments of M. Henry de Varigny to have no real existence. Various kinds of seed were sown in sand saturated with water containing camphor, as advised by horticulturists, and the germination of all was slower, instead of more rapid, than that of similar seeds in water without camphor. Germination was even retarded by camphor vapor in the air, the water having no camphor.

MR. ERNST MUELLER, for many years in the employ of J. C. Schmidt, seedsman and florist, Erfurt, now succeeds to that business. Mr. M. is well known to the horticultural trade of Europe and America, and has the best wishes of all for his success.

VISITED CHICAGO: J. C. Bowman, of Barteldes & Co., Denver; S. B. Dicks, London; W. B. Hayt, of Cleveland Seed Co.; Robert Livingston.

THE SUPPLY of dormant Roman hyacinth bulbs both in Europe and America seems about exhausted.

The "Tale of Woe"

In regard to the retail dealers' "tale of woe," go in a dry goods store or grocery in a small town, say where there is some floral trade, and watch awhile and see how often the customer expects to get something extra when they trade. I think it will be found in all retail trade, and it might be said to have originated in the chromo business. People have learned to expect more than they pay for and the merchants, to get trade, have gotten up the baking powder and other such baits, and now the people expect if they buy one flower you will give them two, and you are stingy if you say you cannot do so. I have many such customers, and I find they are satisfied and come again to buy if you positively refuse to give extras with a small order. L. S.

Six Working Days Enough.

Referring to the very interesting article in your issue of the 10th inst., read by Mr. Wm. H. Long at the Toronto convention, I would like to add my appreciation of its contents in general, and in particular to its positive opinion that the florist business may be conducted in six days with closed stores and greenhouses on Sundays, except in cases of necessity in ventilating, etc., giving one full day's rest to themselves and employes. I am presuming that Mr. Long has put his advice into practice, and can give satisfactory evidence as a successful business man. If there are more that carry out this practice it would be well to make it known for the encouragement of others to adopt this rule, who are now held under the slavish rule of custom.

PHILADELPHIA FLORIST.

THE AMERICAN FLORIST CO.'S
TRADE
DIRECTORY
OF { FLORISTS, NURSERYMEN, SEEDSMEN,
OF THE
UNITED STATES AND CANADA,
1890.
No one in the Trade can afford to be without it.
PRICE, $2.00.
ADDRESS:
AMERICAN FLORIST CO.
54 La Salle Street, CHICAGO.

WHY You Should Grow Mushrooms.
Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.
During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.
Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or outhouses, in the open field or in mushroom houses.

HOW You Should Grow Mushrooms.



First get spawn that will grow. It must be fresh, well spawned, and in good condition. **Gardiner's Celebrated English Mushroom Spawn** is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, **"Mushrooms for the Million,"** Mailed free. **Falconer's "Mushrooms and How to Grow Them."** Published at $1 50. (Gardiner's price $1 35 post free.) **Robinson's "Mushroom Culture,"** 50 cts. postpaid.

GARDINER'S ENGLISH MUSHROOM SPAWN.
John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, $8.00 per 100 lbs. Special rates to large growers. Address all correspondence to **21 North Thirteenth Street,** Philadelphia, Pa.

JOHN GARDINER & CO.

HARRISII.

	Per 100	Per 1000
5–7 inch	$4.50	$38.00
7–9 "	6.50	60.00

CANDIDUM.

First quality	2.75	25.00
Select	3.00	27.00

MUSHROOM SPAWN, fresh stock just arrived, lb. 15c.; 10 lbs. $1.20; 100 lbs. $8.

☞ Send for our florist catalogue.

W. W. BARNARD & CO.
6 & 8 North Clark St., CHICAGO.
Mention American Florist.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies, Etc., Etc. For prices examine Wholesale Catalogue.

Address with business card

136 & 138 West 24th Street,
STATION E. NEW YORK.
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JAPANESE PLANTS

Trees, Shrubs, Bulbs, Seeds, Etc.

SEND IN YOUR ORDERS NOW, for

Lilium Auratum, Rubrum, Longiflorum, Etc.
Cycas Revoluta at **greatly reduced prices.**
Camellias in all colors, **MAGNOLIAS, TREE PAEONIES, MAPLES, Etc.**

Give us a trial, we can supply you with all Plants and Seeds, and can pack safely to any part of the world.

F. GONZALEZ & CO.,
303 to 312 Wayne St. & Crescent Ave., SAN FRANCISCO, CAL

OVER A MILLION BULBS.

DUTCH HYACINTHS, TULIPS, NARCISSUS, CROCUS, ETC. now in stock.

THE BEST ARE THE CHEAPEST.

A good bulb requires no more space, heat or care than a poor one; our aim is to merit your confidence and trade by supplying only the best. **TRY US.**

	Per 100	Per 1000
MIXED HYACINTHS, Single or Double, equal quantities Red, White and Blue	$ 2 50	$22.50
MIXED TULIPS, First-class, Single or Double	1 00	7.50
" " Superfine, Single or Double	1.25	10 00
" " Best NAMED SORTS, Single or Double. **Solid colors, special for Florists' use**	2 00	17 50
MIXED CROCUS, all colors	25	2.00
FREESIA REFRACTA ALBA (own growth)	1 00	7 50

25 Bulbs at 100 price; 250 Bulbs at 1000 price. For terms of Credit, etc., see our Bulb List free to all

FINEST BERLIN LILY OF THE VALLEY PIPS, ready in November, $10 per 100. Write for Special estimates on your wants. ☞ **OUR FACILITIES ARE UNEXCELLED.**

Z. De FOREST ELY & CO.,
Wholesale Importers of Bulbs, **1301 & 1303 Market St., PHILADELPHIA, PA.**

ALL FLORIST STOCK IN SEASON

VAUGHAN'S BOOK for FLORISTS

Tells the whole story for the **FALL of 1891.** Bulbs, Plants, Flower Seeds and Florists' Supplies. New Rose Madam Pierre Guillot, and twenty others. Read our Book for Florists. New Chrysanthemum, Waban and all the rest. Read our Book for Florists. New Canna Madam Crozy, doz. $7.50. **ALL Bulbs** for florists; by **ALL** we mean **ALL** and in **QUANTITY.** International **PANSY** Seed—new crop. We ask careful examination of this "Book for Florists." Special freight and express concessions to our eastern customers. Only exhibit of Dutch Bulbs at Toronto.

J. C. VAUGHAN, box 688, CHICAGO. **GREENHOUSES: Western Springs.**



NOW READY.

Our DUTCH BULBS are now in, comprising a choice stock of Hyacinths, Tulips, Narcissus, Crocus, Etc.

ALSO ALL FORCING BULBS.

Fine Roman Hyacinths, at $20 per 1000. Lily Harrisii and Candidum, Freesia, Forcing Tulips, and Narcissus.

THE JAMES KING SEED CO.,
98 Lake St., CHICAGO.
Send for catalogue if not received already.

Freesia Refr. Alba.

FIRST QUALITY BERMUDA GROWN BULBS,

75c per 100; $6.00 per 1000.

Mailed for 25 cts. per 1000 additional.

ADDRESS:

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

J. A. De Veer,

154 East 34th St., NEW YORK,
Importer and Dealer in

Bulbs, Seeds, Plants

AND FLORISTS' SUPPLIES.
CATALOGUE FREE TO APPLICANTS.
Mention American Florist.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN CONN.

CALIFORNIA BULBS ready

Fine lot ***LIL. WASHINGTON,*** $8 per 100. ***PAMPAS PLUMES,*** new crop, first quality, 24–30-in., $3.00 per 100; 30–40-inch, $4.00 per 100. ***MUSA ENSETE,*** 18-in. high, $2.50 per doz.; $15.00 per 100. ***JAPAN BULBS,*** begin to ship Oct. 1st. ***FREESIAS, CHINESE NARCISSUS,*** Australian Palm Seeds.

Send for our new Trade List.

H. H. BERGER & CO.
SAN FRANCISCO, CAL.

	Per 1000
Roman Hyacinths, 13–15 ctm.	$23
	Per 100
Chinese Narcissus, Oct. 1,	$7.50
CALLA BULBS, Oct. 1,	8.00

J. W. ELDERING, Bulb Importer,
78 Barclay St., NEW YORK.

LILY OF THE VALLEY.

(November Delivery.)

The true Hamburg and Berlin pips, extra strong, 3 years old, packed in cases of 2000 and 2500; per 1000, $9; per 10,000, $80, free on board cars at New York.

SPECIAL QUOTATIONS ON LARGER QUANTITIES.

CHAS. SCHWAKE,
318 E. 85th ST., NEW YORK.

CATALOGUES.

I MAKE 'EM, WITH CUTS AND "KNOW HOW."

J. Horace McFarland,
. HARRISBURG, PA.

San Francisco.

At the semi-annual meeting of the Florists' Club of California, held September 4, the attendance was, says the *California Fruit Grower*, large, and the meeting was harmonious and enthusiastic. The following officers were elected for the ensuing year: President, Emory E. Smith; vice president, F. Shiveley; recording secretary, M. H. Wilkens; financial secretary, C. W. Shaw; treasurer, Joseph Carbone; directors, G. E. Robinson, H. B. McGowen, S. H. Selling, and E. J. Poyal. The president announced that the petition of the Florist Club asking that a license be placed upon street peddlers of cut flowers, plants, seeds and bulbs had been duly presented to the board of supervisors, and that an argument had been made before the license committee, with the result that the recommendation had been immediately made that each peddler be required to take out a license of $10 per quarter. This was thought by the society to be too little, and a committee was appointed to wait upon the mayor and various supervisors to, if possible, have the amount raised before the measure was presented to the board of supervisors for adoption. A petition for presentation to the park commissioners asking that the practice of giving cut flowers and loaning plants to private individuals be discontinued, was read and approved. The subjects for discussion at the next meeting are "Second-Hand Wire Frames" and "Funeral Solicitors." The Florists' Club, which is composed of the growers and dealers in cut flowers and plants in the bay region, bids fair to be one of the most active and beneficial floral organizations in the country. It is very gratifying to see trade prejudices dying out, and good fellowship and unity of purpose on the increase.

WABAN.

2-INCH POTS,

$2 per dozen; $15 per 100.

We have the largest general collection of plants for florists in the West.

SEND FOR WHOLESALE PRICED LIST, NOW READY.

MICHEL PLANT AND SEED CO.

St. Louis, Mo.

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
PANSIES	$1.00	$ 5.00
SMILAX, 2½ inch pots	1.50	12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CARNATIONS, field-grown	8.00	
VIOLETS M. Louise, field grown	5.00 to 7.00	

Address **J. G. Burrow,**
FISHKILL, N. Y.

F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.

Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.

☞ Wholesale Catalogue on application.

75,000 STRONG FIELD GROWN ROSES

Splendid assortment Hybrid Perpetual, Moss and Climbing, best varieties for forcing and outdoor planting. **No better plants grown.**

Full line Clematis, Shrubs, Hardy Plants, Hardy and Forcing Bulbs, Greenhouse Plants and Roses.

Headquarters for {FRUIT and ORNAMENTAL TREES, GRAPE VINES and SMALL FRUITS.

CATALOGUES AND PRICE LIST FOR FALL, READY IN AUGUST, FREE TO ALL.

Correspondence solicited. Personal inspection invited.

37 Years. 700 Acres. 25 Greenhouses.

THE STORRS & HARRISON CO.

PAINESVILLE, Lake Co., OHIO.

A MILLION ROSES.

WABAN, 2 1-2 inch pots, well grown plants, $1.00 per dozen; $8.00 per 100; $75.00 per 1000. We have twenty-five thousand of this valuable forcing Rose.

DUCH. ALBANY, SNOWFLAKE, MME. HOSTE, THE QUEEN, C. SOUPERT, METEOR, V. FOLKESTONE, LA FRANCE, MME. CUSIN, MME. DE WATTEVILLE, C. COOK, ISABELLA SPRUNT, M. NEIL, P. DES JARDINS, S. D'UN AMI, MERMET, BRIDE, MA CAPUCINE, SAFRANO, HERMOSA, MALMAISON, C. DE FRIGNEUSE, PRINCESS SAGAN, MME. ETIENNE, GONTIER, BON SILENE, at $4 00 per 100.

G. de Dijon, $6, **Queen of Bedders,** $8, **Am. Beauty,** $8, **Niphetos,** $4.50, **Sunset,** $5, **Sappho,** $5, **Grace Darling,** $5, **Wootton,** $4.50, **E. Metz,** $5, **Duke of Connaught,** $8, **Dr. Grill,** $5. We have all the new varieties of roses.

☞ IF YOU FAIL TO GET OUR TRADE LIST, WRITE FOR IT.

Nurserymen or florists using roses in large quantities will do well to write us. You are invited to inspect this stock.

THE GOOD & REESE CO.,
SPRINGFIELD, OHIO.

Mention American Florist.

10,000 ROSE PLANTS.

Strong healthy stock in fine condition for planting, in 3-in. pots, $8 per 100; in 4-in. $10 per 100.

MERMETS, NIPHETOS, WATTEVILLE, LA FRANCE AND JACQS.

Cut Flowers, Smilax and Adiantum. 25,000 field grown Carnations. Hinze's White, Lamborn, Anna Webb and Portia, $8 per 100. New Scarlet Emily Pierson $15 per 100. 25,000 Neapolitan Violets, strong clumps, ready in Sept., $8 per 100. **A. N. PIERSON, Cromwell, Conn.**

WABAN ROSE, Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants for immediate planting, price $20 00 per hundred.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
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IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

H. P. ROSES.

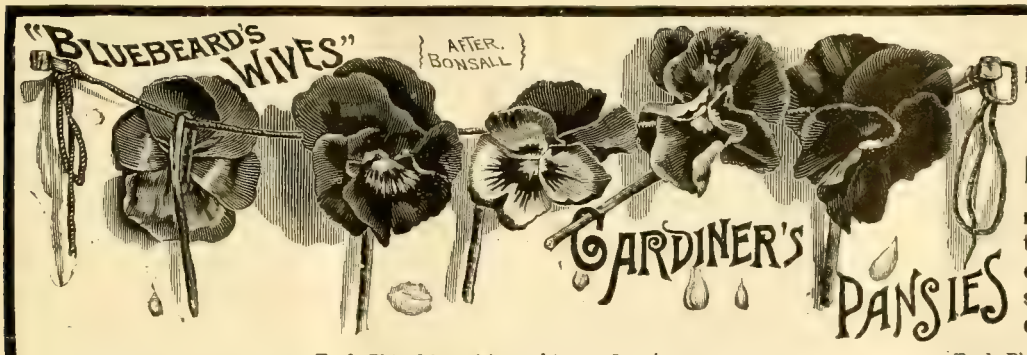
Diesbach, Jacqueminot, Mme. Gabriel Luizet, Magna Charta, Paul Neyron, Prince Camille, and others; EXTRA STRONG; 2 years on own roots; also 1 year buds on Manetti. The largest and best stock we have ever grown.

(200,000 plants in one block.)

$15 per 100; $120 per 1000.

W. S. LITTLE, ROCHESTER, N. Y.

Mention American Florist.



GARDINER'S
Rare and Beautiful
PANSIES.

NEW SEED of the following noted strains is now ready. It will be observed that prices are much lower on most of the newer strains this year. Your orders will be esteemed.

	Trade Pkt.	¼ oz.	¼ oz.	½ oz.	Oz.
Pansy, English Choicest Fancy	$.50	$1.50			
" English and Scotch Show	.50	3.00			
" Cassier's Superb Giant	.50	1.00	$2.00	$4.00	$8.00
" Roemer's Giant, 5 spotted	.50	3.00			
Pansy, New Odier or Prize Blotched	$.25	$.75	$1.50	$3.00	$6.00
" Bugnot's Giant French	.50	1.50	3.00		
" Giant French Stained	.50	3.00			
" Trimardeu Giant French	.25	.65	1.25	2.50	5.00

Our **International Prize Strain** contains all the above sorts in mixture as well as many other beautiful varieties.

PANSY, GARDINER'S "INTERNATIONAL PRIZE".....Trade Pkt., **50c.**; ⅛ oz, **$1.25**; ¼ oz., **$2.50**; ½ oz, **$5.00**; Oz., **$10.00**

JOHN GARDINER & Co., SEED GROWERS, IMPORTERS AND DEALERS, **21 N. Thirteenth Street, PHILADELPHIA, PA., U. S. A.**

ROSES FOR FLORISTS.

La France, Perles, Gontiers, Woottons, Mermets, Brides, Niphetos; best quality, 2-eye cuttings,

FROM 2-INCH POTS AT $5.00 PER 100.

La France, Mermets and Brides, from 4-inch pots, at $8.00 per 100.

TELEGRAPH ORDERS FOR CUT FLOWERS AND DESIGNS PROMPTLY FILLED. DISCOUNT TO THE TRADE.

We also have a large and well selected stock of **PÆONIES** of all colors, which we offer

LARGE CLUMPS (15 TO 20 EYES), $30 PER 100; SINGLE EYES, $5 PER 100.

FOREST GLEN FLORAL COMPANY,

250 W. Madison Street, CHICAGO.

Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Ben Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000.

Carnations.

Hinze's White, Silver Spray, Fred Johnson, Orient, Portia, the Century, Mrs. Cleveland and Grace Wilder.

1st size, $8 00 per 100; $70 00 per 1000; 2d size, $6 00 per 100; $50.00 per 1000.

FRED CREIGHTON, a fine pink $10 00 per 100.

Violets.

Swanley White, $6 00 per 100; Marie Louise, 1st size, $8 00 per 100; $75 00 per 1000; 2d size, $6 00 per 100, $55 00 per 1000; 3d size, $5 00 per 100; $45 00 per 1000

Our carnations and violets are strong, full grown plants and perfectly healthy, ready for delivery September 15.

SMILAX. Good strong plants, $2.50 per 100; $20 00 per 1,000.

WOOD BROTHERS,
FISHKILL, N. Y.
Mention American Florist

Zirngiebel's
GIANT MARKET AND FANCY PANSIES

New crop seed of those superb strains now ready, in trade packets of 1,500 and 600 seeds respectively, at one dollar each.

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.

THE AMERICAN FLORIST AND MEEHAN'S MONTHLY

in Club one year for $2 75.

Address *AMERICAN FLORIST COMPANY,*
54 La Salle Street, CHICAGO

PANSIES.

ALL the plants you want up to Dec. 1st. My customers say the finest strain in the market. Try them, they are worth a trial. Price is low, quality considered.

Per 100, 75c.; per 1000, $5.00.
Reduct on on large orders.

SMILAX.

THE plants have grown but the price has not. If you are no supplied let me have a chance to fill yo order. Do not delay it too long.

Per 100, $1.50; per 10($12.50.
This is a cash rate.

CARNATIONS AND OTHER STOCK.

My whole plant and attention will be devoted to getting out strictly first-class cuttings of all the new and standard sorts of Carnations at a moderate figure. Large stock of **Lizzie McGowan**.

Have also made arrangements to have grown for me a variety of other cuttings. I will make it to your interest to give me your orders. Lists on application.

L. B. 338. **ALBERT M. HERR, LANCASTER, PA.**

PANSIES OF THE BEST STRAINS.

$5 per 1000 by Express; 75 cts. per 100 by Mail. CASH WITH ORDER.

NOTE.—That my Specialties for the coming season are best varieties of

CARNATIONS, COLEUS, GERANIUMS. FIRST-CLASS ROOTED CUTTINGS.

Descriptive Trade List ready in November. Send for it.

ALEX. McBRIDE, - Alplaus, N. Y.

PANSIES. PANSIES.

200,000 plants of the Jennings strain now ready, 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies A No. 1 in every respect. Large flowering, fine colors and fine stocky plants. Seed 50 cts. and $1.00 per packet.

Marie Louise Violets and Carnations. Send for prices.

ADDRESS **E. B. JENNINGS, Pansy Grower,**
BOX 76. **SOUTHPORT, CONN.**

PANSIES ONLY.

The Greatest Collection ever offered, including all the Latest Novelties. Our Seed is Warranted to be Fresh, Pure and Strictly First-class. Send for new Circular and Price-list to the trade.

ALBERT BENZ, Douglaston, N. Y.

PANSIES.

Extra large flowering kinds, $5 00 per 1000; $47.50 per 10,000. Cash with order. Ready now.

P. N. SOETGA, Mariner Street, Cleveland, Ohio.

Pandanus Veitchii and P. Javanicus var.

Please describe in the FLORIST the difference between Pandanus Veitchii and P. javanicus var. I have bought both varieties for Veitchii. WESTERNER.

[The leaves of Pandanus Veitchii are much broader and shorter than those of P. Javanicus var., and are also somewhat less pendulous. When in good condition the variegation of the latter species is as clear as that of P. Veitchii, though it does not retain its coloring as well, nor does it make as symmetrical a plant as P. Veitchii. There is also a striking difference in the spines of these two species, which may be ascertained by drawing the hand up the leaves from base to point, as the spines on the midrib of P. Javanicus are reversed, whereas those of P. Veitchii all project in one direction.—W. H. T.]

Elmira, N. Y.

The great interstate fair, which was held at this place from September 1 to 9, was one of the most successful exhibitions ever held here. One of the most attractive features of the fair was Floral Hall, a large building devoted only to plants, cut flowers and design work. Rawson "the florist" occupied two-thirds of the space with a most magnificent display of most everything that grows in the way of flowers, but chief among this display were roses and carnations. It was to be regretted that the season would not permit a showing of his Marie Louise violets, which "Great Scott" stoutly maintains will cover a silver dollar. Mr. Rawson captured twenty-one first premiums—nearly a clean sweep. Owing to the increased demand for summer roses Mr. Rawson will this fall erect a new house 245 feet long for summer roses. F. W. D.

MIGNONETTE.

Miles' Hybrid Spiral.

First-class plants, from 2¼-inch pots, $2.00 per 100; $18.00 per 1000, CASH.

S. B. FIELD, Roselle, N. J.

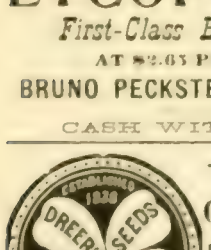
LYCOPODIUM

First-Class Bouquet Green,

AT $2.65 PER 100 LBS.

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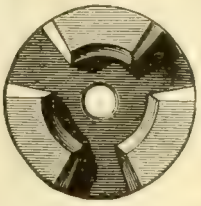
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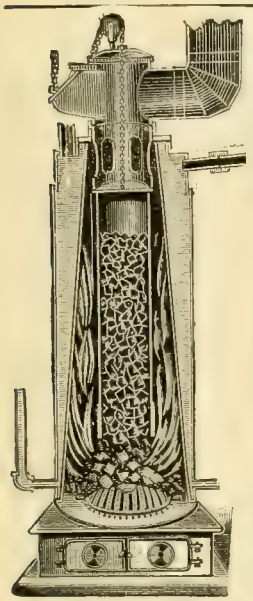
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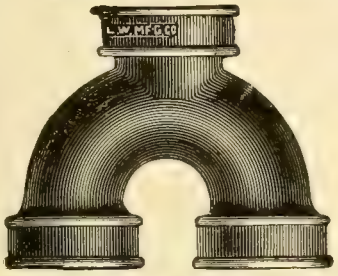
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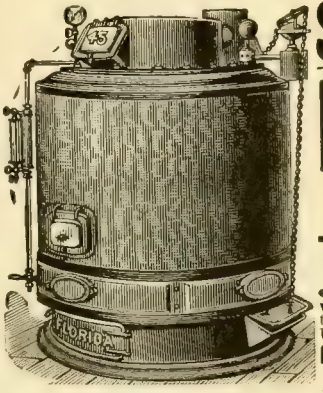
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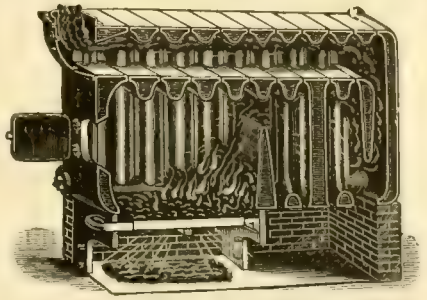


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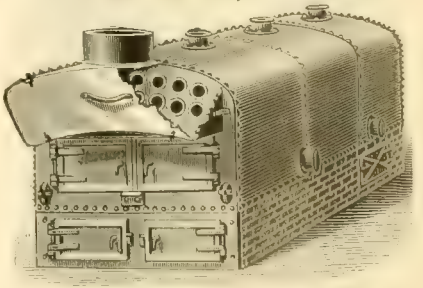
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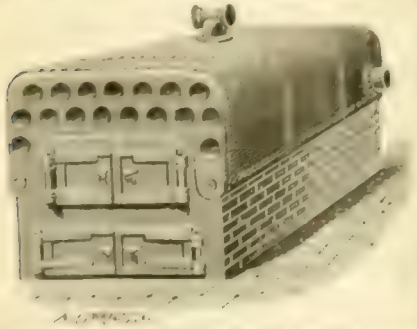
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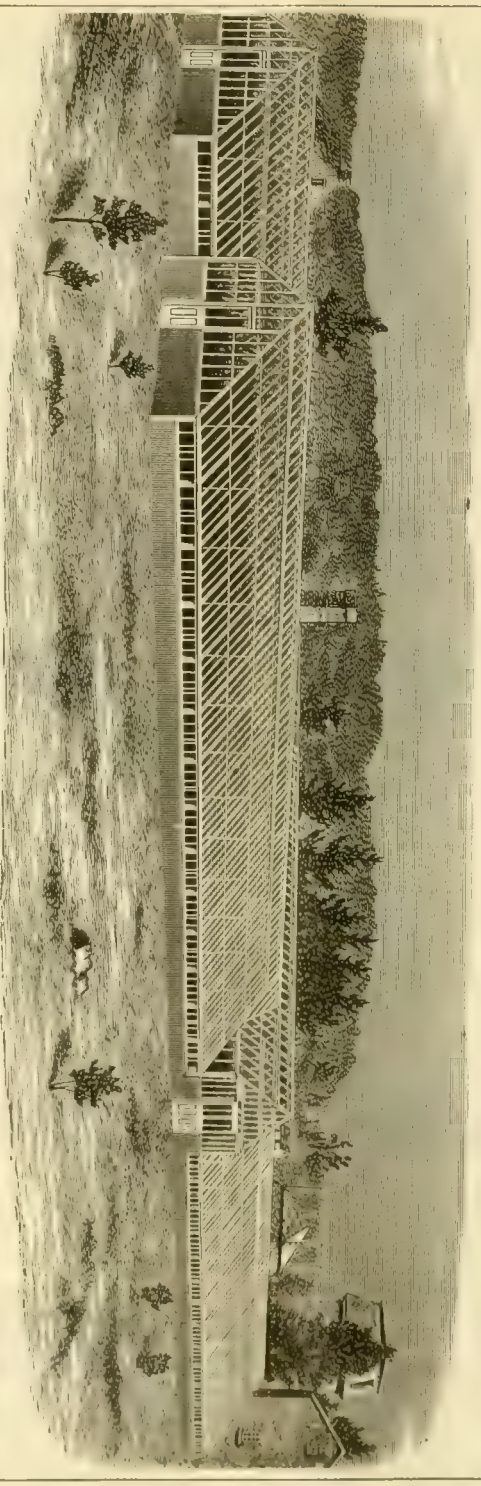
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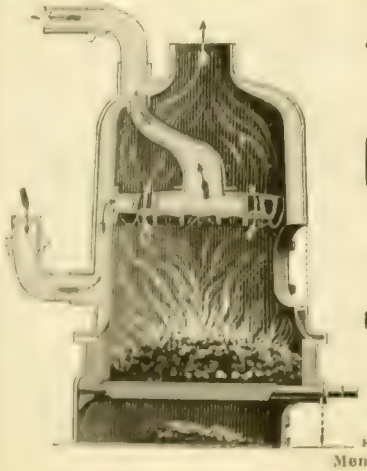
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ONE OF THE Colorado members of the Board of Lady Managers of the World's Fair has started a movement to make an exhibit of the wild flowers of that state at the great exposition, and ladies from all over the state are taking a great interest in the project. The result of such enterprises can not be other than an increased interest in flowers, both wild and cultivated, and a greatly increased familiarity with our own wildlings.

The Artistic Grouping of Flowers.

I.

We have discussed in several previous issues of the AMERICAN FLORIST the color arrangement of flowers; inseparable from this is the art of grouping them artistically.

Undoubtedly we all of us differ in opinion more or less, not only about what colors look best together among flowers, but also about the actual arrangement of the flowers themselves. I feel myself at times considerably shaken in my views on the subject by being brought face to face with flower groupings or paintings of them, so foreign to what happened to be my own preconceived notion, that I have been constrained either to modify my opinions or else to study the matter from a different point of view. Thus, in one of the art galleries of New York last winter, a certain artist showed by his pictures exhibited there a striking preference for the color effect he found in cabbage beds!

Now, I never supposed there could be anything very lovely in the color effect observable in a cabbage bed! Leastwise, as an artist I should not wish to devote my time to the study of this very estimable vegetable. Yet I have found that there is something well worth our study here. There is a blue in the shadow of a cabbage leaf on a summer's day when the sky is clear, scarcely less beautiful than that we may find in the fringed gentian's cup. There is a green in the young leaf's tip, delicate and pure as that in the curling sea wave. In truth, if we did but know it, by the very form and arrangement of the cabbage leaf there is produced a play of color at once charming and refined; a range of blues from sapphire to turquoise, and from turquoise blue through lovely cool green to Nile green and a topaz yellow, almost rainbow-like! And this lovely color effect is in part produced by the natural grouping of the cabbage leaves! It is a lesson for us, and we shall assuredly find that in the studied grouping of our flowers we will produce effects of color at once unattainable except through their artistic arrangement.

It is the positivism of color in most flowers which makes it necessary to arrange them with the greatest deference to their appearance "en masse."

I expect shortly to attend a county fair. I have had some experience in these agricultural fairs, and I know just what to expect when I enter the room where the flowers are on exhibition.

Every flower and leaf will be "arranged" to the last point of distraction! Without doubt a great deal of time will be expended in this arrangement; probably many of the ladies in the town will exercise their taste in the filling of vases and jars. But with what result? Here, you will find purple dahlias and the brightest yellow marigolds, mixed in the stiffest order with sprays of yellow golden rod and blue asters. There you will see masses of scarlet and crimson gladioli sticking straight up out of beds of variegated nasturtiums. Yonder are zinnias of all colors, arranged with painful precision among stacks of cut geraniums and candytuft, and beside us are some glorious dahlias, bereft of every bit of green, jammed together in the stiffest and primmest order in a large circular dish, around which the flowers form rings of violent, though gorgeous color—red, yellow, purple and white!

All this is simply dreadful. It is dreadful to some of us; to others, who do not know exactly what is the matter, it is confusing and uncomfortable. In point of fact, if we can find anyone who expresses any admiration for the flowers we shall find ourselves listening to the praise, not of the flower groups, but of the individual form and color of a simple bloom here or there! This is all because the flower groups were not properly arranged. The more lavish the flower bloom we have at hand for decoration, the less excuse we have for ugly and stiff arrangements. As I have had occasion to say before, the less variety and complexity of color we have in our groups the better. I have before me a variety of "old rose" pink nasturtium, which I am convinced must be absolutely alone if it would look its best. That dainty pale straw-colored variety called the Pearl ought not to be injured by the society of the commoner yellow variety. King Theodore in his gorgeous red velvet looks richest to me massed alone! However, the chameleon variety and those which are considerably variegated look very well mixed together; again, we must not forget the green leaf, but dispose it gracefully in the group.

Zinnias are predisposed to stiffness if not carefully grouped, but the greatest injury may be done this flower by inconsiderately combining its various colors in one group. Those growing in my garden are magnificent in color and variety. They are æsthetic as well as brilliant in tone. Some folks consider them homely, but I should think to the florist they would offer opportunities of rich and subdued color for decoration purposes only excelled by the chrysanthemum. Everything depends upon the grouping of the zinnia. They ought to be disposed gracefully in a large, cylindrical Japanese vase, yellow and white or blue and white, as the case may be, or else in a tall jar of one color in plain glaze. Here is a chance for crimson and scarlet effects, and for rusty and dull flesh tones, but again that rich wine-colored variety resembling the Cullingfordii chrysanthemum must be alone to give its best effect. The pink blooms, also, must not come in contact with the scarlet ones; better keep that variety of rich old subdued pink for a special vase. Then again, the colonial

yellow ones ought to be placed with the white or cream-colored variety. It seems to me that the zinnia ought not to be mixed with any other flower. I do not say that this should follow as a rule, for there are no doubt excellent combinations of the bold zinnia with other fall flowers, which would prove, on the contrary, quite æsthetic and beautiful. There is, however, a certain charm in the staunch green stem with its flaring leaf which ought not to be hidden by other unnecessary flowers. Without its stem being in full view the zinnia loses half its charm.

This brings me at once to what I want to say about the flower stem in the flower group.

Florists are becoming more and more convinced of the necessity of showing the stem and foliage of a flower in order to profit by its full beauty. What could be more graceful and beautiful in curve and line than the stem and leaf of the Catherine Mermet rose? What more luxuriant in color and outline than the foliage of the Cullingfordii chrysanthemum? The same will hold true of dahlias, zinnias, asters, and hollyhocks. In my estimation one-half the beauty of these fall flowers depends upon the judicious arrangement of their stems and foliage.

It does not seem appropriate, nor does it seem in any way necessary to the beauty of a group of tall flowers to hide their green with a mass of short-stemmed bloom in great variety, just for the sake of using up a goodly number of flowers. The nasturtiums are dainty little creatures and ought to be seen in dainty places, by all means near the eye, but hollyhocks and zinnias ought to be placed in conspicuous places in tall array, and in position and arrangement calculated to display their decorative quality.

That so-called careless or natural and artistic arrangement of flowers on long stems has more than "a method" in its composition. It is usually "a study." And the artist who paints his group of flowers by skill attains the apparently careless positions they hold. There is always a central, full-faced flower, with perfect foliage; then there is one not so large and not so perfect, holding a subordinate position near it; next there is a good large bloom placed in profile at the edge of the group, and not far from this, and maybe just below the central blossom, there is a three-quarter-faced flower; a graceful stem is sure to be placed somewhere in sight, and disposed here and there near the top of the group will be some buds, showing themselves in profile.

Thus the group of flowers, apparently careless in arrangement, is actually disposed in fashion regulated by strict rule; and the artist or florist accustomed to work out his artistic effects in this simple but absolutely careful way unconsciously follows the rule, forgets all about it and each touch of his deft fingers brings his work nearer and nearer to the perfection nature is always reaching after, but never completely attains. I shall have more to say on this subject later. F. SCHUYLER MATHEWS.

Tuberous-rooted Begonias at Mr. T. Griffin's Nursery, Westbury, L. I.

The nursery is on what we call the Hempstead Plains and almost quite level, and on account of contiguous buildings, trees, fences and the like fairly well sheltered all about. The soil is very rich on a gravelly subsoil and it has been heavily manured. The beds are long parallel oblong squares of the common nursery type and with narrow pathways between them. The begonias had been planted in rows crosswise in the beds and about nine inches to a foot apart, and now are a solid mass of luxuriant foliage and a brilliant display of blossoms.

Of course all the plants reserved from last year were used again this season, but the great majority of the plants are from seed this year. The principal sowing was made last January in a small warm propagating house and others at intervals later on as the young plants could be conveniently handled. Soon after germinating the seedlings were pricked off into flats and when they had grown a little bigger replanted into other flats further apart and in richer soil and here they remained till planting out time in May. In this way it will be seen all the plants set out are good leafy stock and there are no dormant bulbs; the old bulbs are always started well into growth in pots or flats in the greenhouse or frames before they are committed to the open ground, hence there are no gaps, no failures in the beds in summer.

The most critical time in the life of a begonia is in its early seedling stage. The seeds although very small have great vitality and germinate readily, but the seedlings are exceedingly apt to damp off when they are between one and four weeks old; carry them safely through this period and their further growth is easy enough.

During the summer months Mr. Griffin never allowed his plants to suffer from drouth, for water was handy and abundant and he used it unstintedly. But never water begonias overhead when the sun is shining on them, else you will scald them, and don't water them when the surface of the ground is hot in the daytime, as it generally is early in the afternoon, else the plants may rot off at the neck, but apply the water late in the afternoon or evening.

Mr. Griffin's begonias consist of both single and double-flowered varieties. The singles are large, wide open flowers 3 to 5 inches across; the doubles are less in width, but massive with high full-double centers. Sometimes the doubling is an aggregation of flowerheads set in one bunch as we often find in double cinerarias or daisies, but he prefers the rose-doubles, that is when the doubling is in the form of one bloom, as a hollyhock or zinnia.

While large size is an objective point fine form is also wanted and he is encouraging a type with prettily and undulated edged petals. In color the flowers are white, fair yellow, mostly lemon shades, amber, pink of several tones, flaming scarlets and deep crimson, with many variations, and a fancy type, like Marseilles poppies, has white flowers with pink edges, or pink flowers with white margins.

The behavior of these plants as we saw them in the open air beds was very encouraging. The main block of beds was right in the open field and unshaded by anything. The beds showed no gaps and the plants were 10 to 20 inches high and very luxuriant, with fine bold foliage and a mass throughout of brilliant blossoms. And the types of plants as raised from seed, for instance, crimsons, yellows, pinks, whites, doubles or singles, were very marked and constant, but in the growth of the plants there was some unevenness, showing that in very particular flower bed gardening one year old plants whose size is already known had better be used rather than first year seedlings, whose bulk of growth cannot be very well foreseen.

A large mass of these begonias planted in beds slightly shaded by trees showed all the luxuriance and floriferousness of those grown in the open block and undoubtedly are far superior for such a position to geraniums of any sort.

Mr. Griffin is now filling up his greenhouses with the finest varieties for seeding purposes, for they do not ripen seed well out of doors. He lifts them with good roots and balls of earth as one would carnations and plants them on benches, touching close together in light airy houses. Although the plants are in full growth and bloom when lifted, they feel the check very little. They are kept perfectly dry overhead and the atmosphere of the house dry to induce seed ripening. And most all of the fine flowers are cross fertilized by hand.

The other begonias are left outside till frost nips the foliage, when they are cut over close to the ground and the bulbs lifted and stored inside over winter. Keep them in a cool temperature, say 40°.

WM. FALCONER.

Bed of Tuberous Begonias.

The accompanying illustration is from a photograph of a bed of tuberous begonias on the grounds of Mrs. Robert Pitcairn, Pittsburg, Pa., sent us by Mr. J. Wilkinson Elliott, of that city.

Mr. Elliott writes: "The begonias were planted out June 1 last, and from the 20th of that month have been a mass of flowers and foliage, and all who have seen them admit they make the handsomest bed of flowers ever seen in this city. The plants have had good care, but not better than the numerous fine beds of bedding plants on the same grounds, and I think they pretty effectually answer the question as to whether tuberous begonias can be successfully bedded or not. The bed is 80 feet long and 8 feet wide at the broadest portion. The greater part of the bed has full exposure to the sun, but one end is quite shaded, and this end is the poorest part of the bed. The plants in the shade are vigorous enough, but do not produce as many or as fine flowers as where fully exposed to the sun. Mr. Thomas Fitzgerald is the gardener in charge of Mrs. Pitcairn's place, which is one of the notably fine ones of this city The photograph was taken Sept. 7."

Gymnogrammes.

The so-called "Gold" and "Silver" ferns included in this genus form a most interesting group, though their fronds are rather too delicate in most instances to allow of their extended use as trade ferns.

For certain purposes, however, some of the gymnogrammes may be used with good effect, and on the score of beauty they should find a place in every collection of ferns, and when once established in a collection there is usually little difficulty in keeping up the stock, as most of the species are very easily reproduced.

The majority of the members of this genus are best suited under warm house treatment, though this is by no means necessary for all, a temperature of 55° being enough for many of these, providing reasonable care be given in the matter of watering. In the matters of culture and propagation there is no difficulty found with the present genus, though in order to keep the foliage in good condition it should not be watered overhead, else one of the chief beauties of some of the species, that is the farinose powder, will be washed off.

Spores are produced in large quantities by these ferns, and also germinate freely, and as the seedlings often present slight



BED OF TUBEROUS BEGONIAS ON THE GROUNDS OF MRS. ROBERT PITCAIRN, PITTSBURG, PA.

variations from the type it makes the family an interesting one with which to experiment.

Among those specially noted as either gold or silver ferns there are frequent variations of coloring seen, and while some of the seedlings present the same brilliancy of coloring as the parent plant, others will be found bearing much less of the farniose powder on their fronds, or else the latter of a different shade and shape.

Probably the most beautiful of the golden ferns is G. Laucheana, the long and graceful fronds of which are thickly covered with deep yellow powder on the under side, and as this plant is a strong growing variety a good sized specimen may soon be secured.

G. Parsonsii is another good one, and belongs to the same group as the above, but differs much in appearance from the fact that its fronds are quite heavily crested on the tips. This is a remarkably handsome variety, and deserves a little extra care in watering.

G. decomposita is still another from the gold-leaved section, and a larger grower than either of the preceding, its fronds being frequently three feet long, and produced on quite stout footstalks. This species makes quite an effective exhibition specimen when well grown, though as a small plant it is probably not as useful as some of the chrysophylla varieties.

The finest of the silver or white powdered section is G. Peruviana argyrophylla, a compact grower and of graceful habit, and the fronds of which are covered with the powder. This variety enjoys rather more heat than heretofore noted, a temperature of 65° and a moist atmosphere promoting its luxuriant growth.

G. Wettenhalliana is another particularly pretty sort, the fronds of which are very much crested both at their tips and also at the ends of the pinnæ, and are more or less covered with a very pale yellow powder, in fact the latter is almost white on some specimens.

G. schizophylla is also an elegant specimen, the fronds of which are very finely cut and inclined to be pendent, this inclination being increased by the formation of young plants near the apex of the fronds, after the manner of the "Walking-fern." G. schizophylla may be grown in good shape in a basket suspended from the roof of the fern house, and either the type or its improved form, G. schizophylla gloriosa are well worth cultivation.

One species, G. triangularis, is almost hardy, and is a very pretty little fern too, reminding one somewhat of Doryopteris palmata, though more divided and the under side of the fronds being covered with yellow powder. This species seldom grows a foot high and is found on Vancouver's Island and I think also in some portions of the State of Washington.

Holmesburg, Pa. W. H. TAPLIN.

Marantas

These plants orm an extensive genus of very useful and ornamental greenhouse plants, the dwarfer varieties being valuable to the florist for vases and window boxes, while the large varieties are, when well grown, unexcelled for greenhouse decoration. The majority of these plants are handsomely variegated.

Most of the marantas are of easy growth, provided they get a sufficient amount of heat and water while growing, and are kept shaded from the sun. It is a good plan to grow them amongst palms and other large plants, as that gives them shade and moisture and at the same time fills the space underneath the large plants that would otherwise be wasted. The soil should be good, fibrous loam, with a liberal proportion of peat added to it; although it is not essential to have the peat, still they do better in it. The drainage must be good, for while they enjoy liberal watering, still if the drainage is poor, and the soil becomes water-logged, the edges of the leaves turn brown and spoil the beauty of the plant. These plants are easily increased by division of the roots, which may be done at any season of the year, although I prefer to do it in spring.

M. Bachemiana: A dwarf variety of spreading habit, with silvery green leaves, blotched with dark green markings, is one of the most useful for window boxes.

M. Porteana: Is an elegant, erect plant, growing about three feet high. The leaves are oblong, bright green striped with white, the under side of the leaves rich purple.

M. princeps: This is a large growing species, the center of the leaves being a dark, rich green, broadly margined with yellowish green. A very distinct and ornamental species.

M. rosea picta: A beautiful plant of dwarf habit. The leaves are rich, glossy green, the mid-rib rose color and midway between the margin and mid-rib are two irregular bands of the same color traversing the entire length of the leaf.

M. Lindeni: A useful, free growing

variety of dwarf habit. The leaves are oblong in shape and deep green in color, with blotches of yellowish green on each side of the mid-rib; the under side is purplish rose, through which the markings of the upper side are visible, producing a beautiful effect.

M. Veitchii: This superb plant is the most beautiful of the genus. It attains a height of three feet, bearing large, ovate-elliptic leaves upwards of a foot long independent of the foot stalks, the upper surface of a glossy and rich deep green, marked along each side of the mid-rib with blotches of yellow, which is softened by shades of green and white; the under surface is purple, and as the variegation of the upper side shows through upon this ground color, the effect is grand. This magnificent plant should be in every collection of stove plants.

M. zebrina (syn. Calathea zebrina): This is a very old plant, but one of the most useful; it is a tall, strong grower, with leaves of a velvety light green on the upper side, barred with a greenish purple, the under side being a dull purple.

M. Warscewiczii: A strong and vigorous grower, with narrow, ovate leaves, deep velvety green in color, with a stripe of yellowish green on either side of the mid-rib, and which extends from base to point.

There are a great number of other varieties of these plants, all of which are worthy of growth, as they are all highly ornamental and useful greenhouse plants.

Maywood, N. J. JAS. S. TAPLIN.



The French Roses of 1890.

Gustave Regis is here the most popular of the list. It is a fine hybrid tea, much resembling W. A. Richardson in color and form, is semi-double, large, very long bud, canary yellow, saffron center, usually blooming singly, but sometimes in corymbs of three to six flowers. It has a peculiarity of making considerable growth before beginning to bloom.—[American growers claim the flower is too single.—ED.]

Mlle. Christine Noue (Guillot), tea: Although I did not see this rose to advantage, it is very generally liked, very large, double flower, deep red color, with lighter shade center, fragrant, very vigorous and free blooming.

Eliza Fugier: Bonnaire claims a great deal for this new Niphetos, a hybrid of Niphetos and a rose not in commerce. It was not in its glory here when I saw it. He claims the plant to be somewhat more erect than Niphetos, much stronger, and that it does not lose its foliage so much. Flower very similar to Niphetos, but with a slight yellow tint, and very freely produced. This rose has received a silver medal.

Mme. Caroline Testout (Pernet-Ducher): A lively pink hybrid tea, somewhat resembling La France, which is a hybrid, color more brilliant, not quite so double, so that the petals are of a better shape, as vigorous as La France and as free, foliage of good, dark green. They call the color "satiny rosy flesh color," with brighter center, edges of petals pale rose, plant erect and vigorous, fragrant, opens well.

Of the older teas, Mme. Berard, a large double salmon, pinky yellow (indescribable), but shading from salmon to copper, is large, very popular, and much used for hybridizing.

Rose Mme. Carnot (Noisette): Is a pretty thing, medium size, very double, round and opening well, flowers in clusters, golden yellow, deeper in the center, color variable, like Clotilde Soupert.

Mme. Worth (Rugosa): Strong, free blooming, flowers carmine red, dark, fragrant, double.

Kaiserin Augusta: Is a good, white hybrid tea, but very like the Bride.

Grand Duchess Adelaide de Luxemburg: Is a tea, pale yellow, long bud and a good forcing rose.

Miss Clotilde Soupert, at Soupert & Notting's place in Luxemburg, recommends this variety. She also recommends Duchess Marie Salviati, one of their older roses, a kind of chrome yellow shade with flesh pink, cherry center, tea, fragrant, large, double, strong.

The Souperts will surely visit the World's Fair. F. L. V.

Lyon, France, August, 1891.

Seasonable Notes.

Roses for winter flowering, especially the ever-blooming teas, will be growing rapidly if they have had the necessary amount of water during the past few weeks. A critical period in the existence of this section of the rose is approaching. The days are becoming shorter, consequently water must be given with care and judgment, or at the least partial failure will surely result.

It must be borne in mind also that a tea rose which is subjected to a forcing temperature must never be allowed to become dry at the root. That happy medium as regards moisture must be maintained, if fine flowers and lots of them are to be the result.

Nearly every rose grower at some time in his experience has seen a fine looking lot of roses at this time of the year, and during December and January the same roses have presented a sorry appearance. The reason for this is not far to seek—*excessive moisture during the shortening days of the autumn months.*

The "hybrids" for early forcing must be having the finishing touches put upon them in the ripening process. The "how to do this" can only come by experience and keen observation. Water for the past few weeks should have been rigidly withheld, taking care, however, not to allow the plants to shrivel.

"Black Spot," that bane of American Beauty, La France, and that class of roses, must be guarded against. Water the foliage only when there is a probability of its drying off rapidly.

Look out for mildew, and always bear in mind that prevention is better than cure. Take time by the forelock and dust with sulphur or grape dust at least three times a week, and more often if the case seems to warrant it. E. L.

The Rose Cloth of Gold.

As is well known to many in the trade, there are two distinct roses sold for this variety. Some few years ago, to settle the matter of which was the right variety, we sent samples of what we were growing for Cloth of Gold to Hoopes Bros. & Thomas, and also to Ellwanger & Barry. We received replies from both that we were right, Messrs. Hoopes taking the trouble to send us samples of plants that were propagated from stock procured from the late H. B. Ellwanger, well known as authority on roses. We have just received a communication from the Elmwood Nursery, in Tennessee, saying: "There are many of the old roses that ought to be revived—one especially, the 'Cloth of Gold.' When you get the true one it is grand, but nine-tenths of those in commerce now are the 'Solfaterre.' I bought from Buist the true one, I think in 1848, and saw the difference between it and Solfaterre so striking that I cleaned out every plant of the latter. In growth and foliage they look identical, but in color of bloom they are wide apart."

The variety grown by many leading firms resembles Solfaterre in nothing, being of more slender growth, foliage rounder, shyer in blooming and of a much deeper color, resembling Isabella Grey in habit.

There is certainly only one Cloth of Gold, and can anyone settle which is the true variety? J. M. GOOD.

Springfield, O.

Nymphæa Devoniensis, Striped-Flowered.

Through the courtesy of Mr. Jones, the superintendent of the Brooklyn city parks, I had sent to me the other day the strangest freak in the way of a pond lily blossom I ever saw. It was a flower of Nymphæa Devoniensis, cut from a plant growing in a tub in the fountain basin at Brooklyn city hall. The petals were of the typical red color, broadly and decidedly banded lengthwise with pure white. In some of the petals the left hand side was white and the right red, in others the right was white and the left red, and in several while the margins on both sides were red there was a broad band of white along the middle of the petal, and at one side of the flower occurred a few altogether red petals and on the opposite side a few altogether white ones. Mr. John McElvery of Flatbush, L. I., and who is one of the most enthusiastic and successful amateur growers of ornamental aquatics, writes me: "I saw it in bloom in the city hall fountain and it was exceedingly interesting to me, and by the way, Mr. Thompson, the park gardener, tells me that the first bloom produced by this plant this summer was pure white."

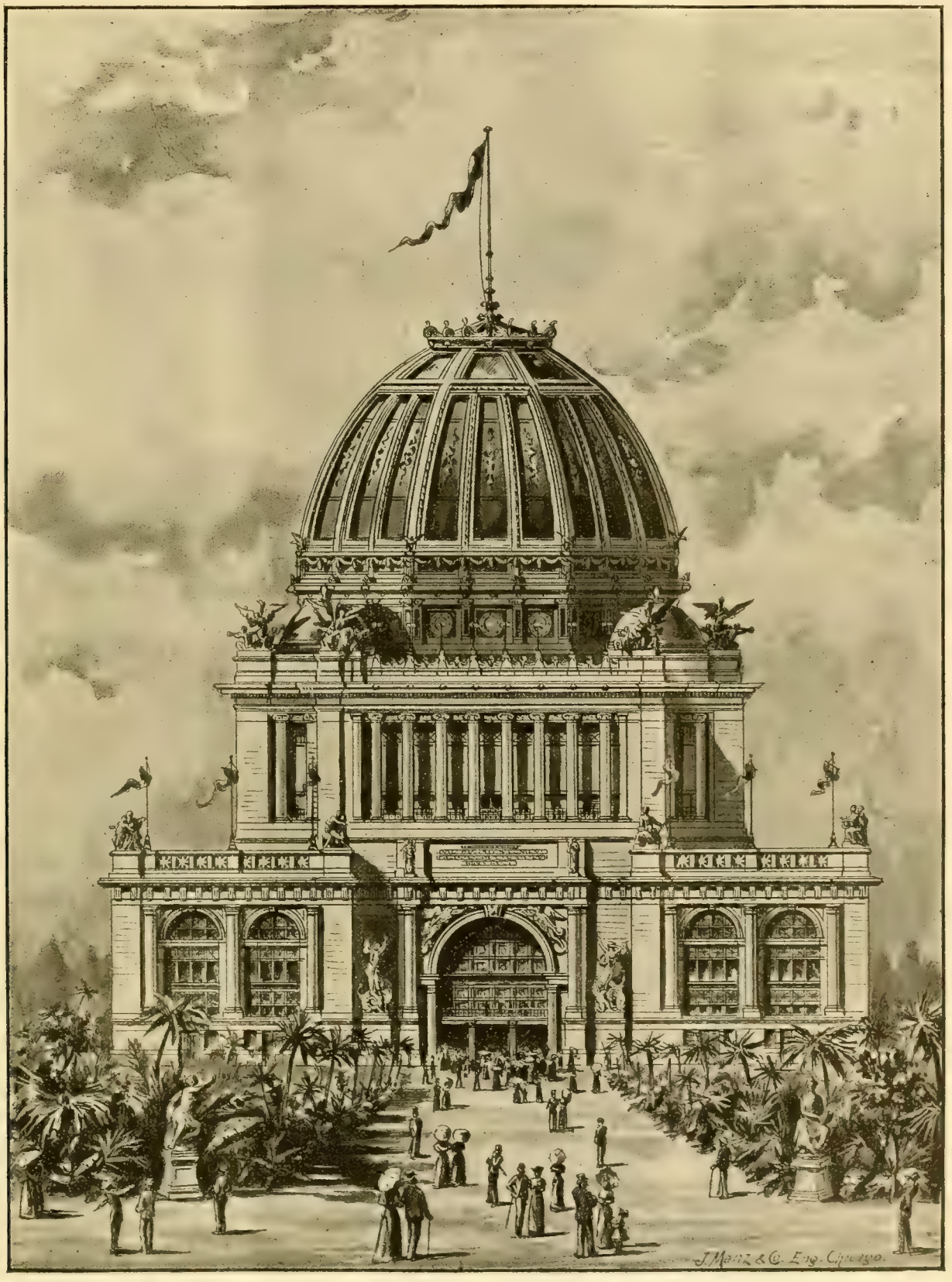
By way of exciting their curiosity I cut up the blossom that was sent to me into pieces of a few leaves each and sent them to specialists in aquatic plants with only this information: "How is this?" One gentleman answered by return, "Put a price upon it," another, "I am ready to bid for stock," a third has taken no notice of it. But I have no voice whatever in the matter in anyway, and only mention this to show how important it is to keep one's eyes open to everything that is new among garden plants.

WM. FALCONER.

Administration Building at the World's Fair.

We present in this issue an engraving of the Administration building for the World's Columbian Exposition, at Chicago, in 1893.

This building is the gem of all the architectural jewels of the exposition. Constructed of material to last but two years, it will cost $650,000. Although it covers a space but 250 feet square, yet it is one of the noblest achievements of modern architecture. It will occupy the most commanding position on the exposition grounds. The building consists of



THE ADMINISTRATION BUILDING FOR THE WORLD'S COLUMBIAN EXPOSITION AT CHICAGO IN 1893.

four pavilions, 84 feet square, one at each of the four angles of the square of the plan, and connected by a great central dome 120 feet in diameter and 260 feet high. In the center of each facade is a recess 93 feet wide, within which is a grand entrance to the building. The first story is in the Doric order, of heavy proportions. The second story, with its lofty colonnade, is in the Ionic order. Externally, the design is divided into three principal stages. The first stage consists of the four pavilions, corresponding in height with the buildings grouped about, which are 65 feet high. The second stage is of the same height, and is a continuation of the central rotunda, which is 175 feet square. The third stage is the base of the great dome, 40 feet high and octagonal in form, and the dome itself, rising in graceful lines, richly ornamented with heavily moulded ribs and sculptured panels, and having a large glass skylight. The interior effects will be even more gor-

geous than the exterior, resplendent with carvings, sculptures and immense paintings.



Seasonable Notes.

Now that the heated spell is broken it will necessitate caution in watering, for if we get a long and protracted spell of wet, dark days all chrysanthemums are liable to become water logged. In handling plants in pots be careful to see that the holes in the bottom of the pots are not stopped up through standing on the earth or being filled up by worms.

Where any severe tying up has to be done it should be done immediately, as for instance, when the heads of the standards have to be snug and secure for safe transportation. I do not admire or recommend severe training of the chrysanthemum, but where large plants are grown for exhibition severe tying is more or less necessary.

The constant attention required by chrysanthemums during the next month will doubly repay any labor invested. Attend regularly to the thinning of the buds, which must be kept up, and the tying of the flowers away from danger of drip. Many flowers are disfigured by being pressed up against the roof, the first frost being generally sharp enough to destroy the petals. Tie up all flowers to prevent them from being draggled in the dirt.

As plants begin to come into flower the morning syringing should be dropped, as a dry atmosphere must be had when the flowers are opening. Remember that all deeply-colored flowers should be shaded from the direct sunlight, so as to preserve their brilliancy.

If any signs of cutworms are discovered a very sharp lookout for them should be kept up. They can be found on the plants after dark by the use of a good bright light and a quick eye. In the daytime they are also found pretty nearly close to the stems of the plants and not more than three-quarters of an inch below the surface.

JOHN THORPE.

Insects and Diseases.

Conducted by CHARLES F. BAKER, Agricultural College P. O., Ingham Co., Mich.
Send specimens of unidentified insects and diseased plants to him at above address.

Thrips and Other Insects on Roses.

A communication was lately received from the Brooks Sisters, florists of Sorrento, Fla., in which they stated that the roses in their garden were being badly injured by a very small yellow insect, which worked in the unopened bud. After beginning the attack its depredations soon caused the bud to turn brown and decay, which condition attracted another and larger insect, a beetle. These florists had been troubled by the small yellow insect for over a year. It had occasioned considerable loss, for when even a few of the insects attacked a bud it was ruined. Specimens of the affected roses accompanied the letter.

The damaged roses were carefully examined and large numbers of a small yellow thrips were found. These belong to the family Thripidæ, the members of which may be recognized by the following characteristics: They have four long, narrow, membranous wings which are fringed with long hairs and some times have one or two longitudinal veins; in repose the wings lie along the back. The mouth parts resemble somewhat those of biting insects and somewhat those of sucking insects. The mandibles are bristle like. The body is long and narrow, the head being somewhat narrower than the



thorax. The compound eyes are large and there are three simple eyes. Some forms are wingless. The insects are often very lively, being able to run and jump with great rapidity.

The species in question (see figure) belongs to the genus Limothrips. The body is smooth or glabrous and the last segment of the abdomen in the female is armed with paired spines. The male is wingless. These insects are light yellow in color and one and one-half millimetres (.06 in.) in length. The eyes are black and the distal or outer ends of the joints of the antennæ are tinged with black.

In some cases we find species of thrips—as mentioned by Walsh, Riley and others—which are carnivorous and so beneficial. But many species are quite injurious, as for instance those which affect timothy, June-grass and wheat. A species closely resembling that affecting the rose, is found very common in clover heads. Other species are found in many different flowers. In the rose bud the injury is done around the bases of the petals, causing them to wither and turn brown.

Among the roses sent were found numbers of a small carnivorous bug, Triphleps insidiosus, Say. This is said by Osborn to prey on the thrips. It is thus beneficial and about the only known enemy of thrips. This bug is one and one-half millimetres (.06 in.) in length. The head, thorax and abdomen are black, while the legs and antennæ are light brown. The anterior wings are thickened at the base and thin at the extremities, where they overlap. Each has midway between the extremities a large triangular black spot, the base of the triangle pointing outwards.

As the rosebuds begin to decay a small beetle takes up its abode among the rotting petals and proceeds to lay eggs, from which small light colored larvæ develop. These larvæ when full grown are four millimetres long and are white, excepting the head and first and last segments, which are yellowish brown. The beetles in considerable numbers and in all stages were found in the roses. Almost all the species of the family to which this beetle belongs, like the rose beetles, feed on decaying vegetable or animal matter and consequently are beneficial. The species found belongs to the genus carpophilus. It is a small beetle, being only two and one-half millimetres (.1 in.) in length. The general color is a light reddish brown, the elytra being a little darker.

No satisfactory remedy has ever been found for thrips. They usually work inside of flower heads and so, especially in the case of the rose buds, would be very hard to get at. Nothing could be dusted or sprayed onto the plants so as to affect the insects, as they would be hid deep down in the folds of the flower or bud and consequently safe from any such remedies. Some remedy applicable in the gaseous form or like tobacco or sulphur fumes in the greenhouse would be much more efficient. In any case pick the buds as soon as they show signs of decay and either burn or throw them into hot water. In the greenhouse this may be supplemented by the thorough application of tobacco and sulphur fumes. In the open air little can be done. The picking might be followed by the continual application of some preventive like a dilute solution of whale oil soap.

A Globe of Plants.

We present herewith a view of "The Globe," one of Superintendent Kanst's most effective designs in fancy bedding at Washington Park, Chicago. The globe is ten feet in diameter and as can be seen in the picture, has the continent delineated in echeverias on a ground of sedum.

Boston.

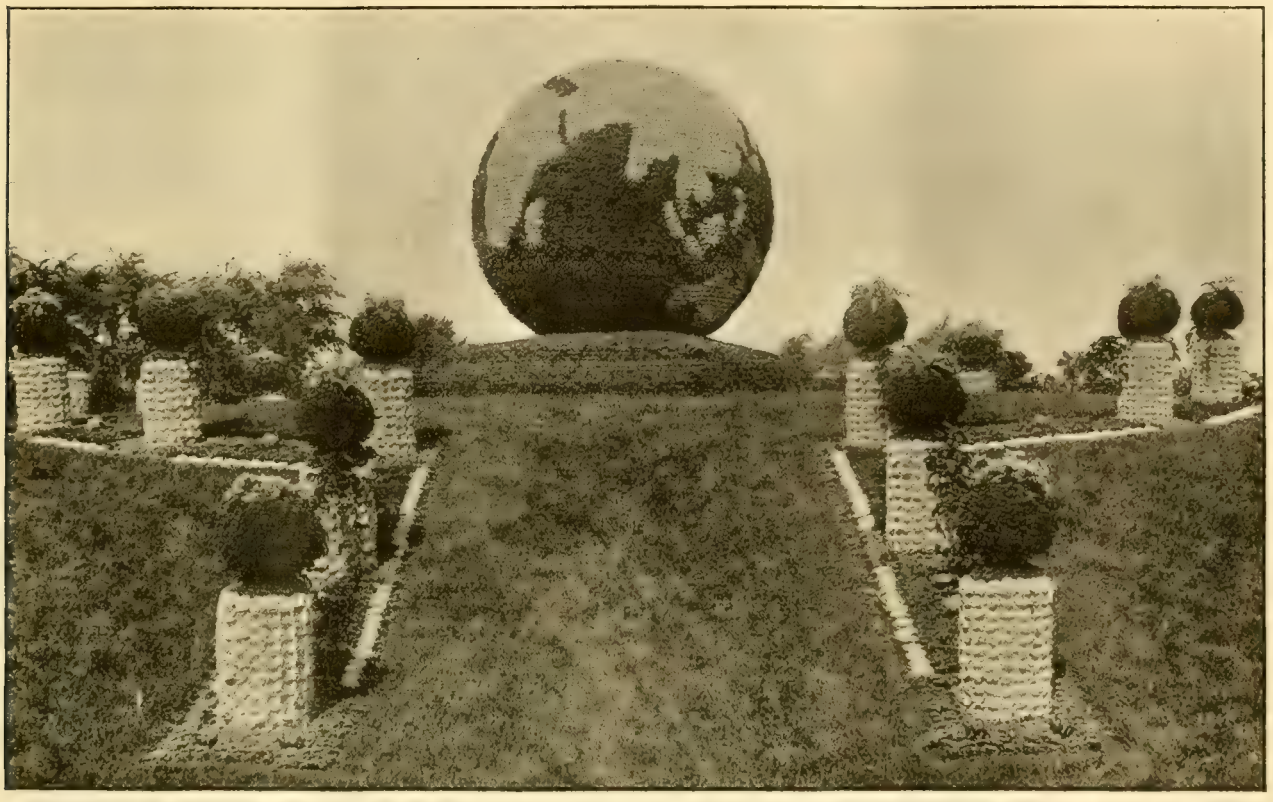
There is no scarcity of cut flowers in all seasonable varieties. Asters are coming in again quite freely, although the blooms are small. Carnations, which had been very scarce for some time, are abundant and of good quality. Snowdon, Mrs. Fisher, Anna Webb, Grace Wilder, Portia and Century are the varieties most generally seen. Roses are also plenty, especially Mermet, Perle and Gontier. A few Wabans are coming in. The color is splendid, but they are small in size as yet. Tuberoses are very abundant and cheap. For choice flowers there are lily of the valley and stephanotis, with a few lapagerias and orchids. Asparagus plumosa and Adiantum Farleyense are also obtainable for nice work.

The annual meeting for the choice of officers and standing committees of the Mass. Hort. Society will be holden at Horticultural Hall on Saturday, October 3.

Mr. Ed. Welch, of the firm of Welch Bros., has been making merry with his friends over the advent of a daughter.

Chas. Ingram complains of a big, light brown caterpillar which eats the leaves of chrysanthemums. It being a stranger to him, he showed it to the Gypsy Moth Commission, but they do not recognize it. It is very abundant on the weeds and bushes in the vicinity of the greenhouses.

Note in the last number of the FLORIST in reference to one Neal, formerly of New York, Washington, and Chicago, and now supposed to be of San Francisco, awakens fears and forebodings in the hearts of some Boston parties, who have had all the experience they want with that notorious individual, for if he keeps on in his westward progress he will soon be coming up on the other side of the earth again, and it is awful to contemplate the possibility of Boston being in his path.



"THE GLOBE," WASHINGTON PARK, CHICAGO.

Strangers in town: Smith, of Stranraer, Scotland, and Laing, of London, England.

New York.

There is little to commend in the manner of planting the decorative beds in Madison and Union Squares. One feature in Union Square, the basin of aquatic plants, is, however, quite interesting, in spite of the badly arranged border of unkempt coleuses, alternantheras, etc., surrounding it. The nymphæas have bloomed very freely, and on a bright day make a superb show. The waving papyrus and the stately nelumbiums, with their massive foliage and gorgeous red and white blooms, also attract much attention.

Aquatic plants are sure to be more generally grown in the future, and the exhibition of such a group as this, even upon a small scale, will do much to hasten the day when no pleasure ground will be considered complete without them. They should find a place in every public park.

The crisis through which the New York Florist Club passed after the discouraging outcome of the Lenox Lyceum Show last spring has proved to be in some respects "a blessing in disguise," for it served the good purpose of proving who were the real friends of the organization, and showed conclusively to outsiders that the material of which the club was composed was the kind which only laughs at misfortune, and, in spite of discouragement, goes in to win. The croakers, with ill-concealed satisfaction, announced its downfall and predicted that it would never recover from the shock, but on the contrary, the club is stronger to-day than ever before. New members are crowding in, the old ones have taken hold with fresh vigor, and the stability of the organization, both financially and numerically, is now assured beyond question.

A visit to the conservatory of Mr. Hicks Arnold is always interesting. The collection of orchids, while not as large as some, is very valuable, comprising as it does only the rarest and choicest kinds obtainable. The cypripedium collection is very complete, numbering over 175 species and varieties. At present there are not many plants blooming. A magnificent specimen of Angræcum eburneum superbum shows five flower spikes, which when in full flower will be a grand sight. The beautiful Cypripedium Arnoldianum, which received a first-class certificate of merit at Boston last spring, is in bloom again. Vanda Kimballiana and a very dark form of Miltonia Moreliana, are also in good flower at present.

On Mr. Joe Rolker's desk stands a mechanical toy representing two boxers, one in red trunks, the other in blue. When manipulated they do some lively work, the blue one generally coming out ahead. It is not certain whether this is supposed to represent a former horticultural event, or is merely an indication that Joe's boyhood days still linger with him, and that he finds relaxation from business cares in the antics of the two little belligerents.

Elliott's sale on Tuesday, September 22, looked at the opening hour as if it would have a hard struggle for existence, but later on it acquired a fair amount of animation, owing, no doubt, in part to the eloquence of the central figure, and part of the stock went at fair figures. Adiantums went very cheap, and were gobbled up by John Weir, of Brooklyn, who is always on hand in his quiet way when bargains are going.

Mr. Winfried Rolker, whose judgment is generally sound, predicts a great fall and spring trade coming. No one will deny that it is needed.

A Summit grower has a novelty in a sport from Catherine Mermet, with white or very pale stems. In certain combinations the effect of the light colored stems is very pretty.

Philadelphia.

John Dick has rented the greater part of his establishment to the Haley Brothers, who have also purchased a considerable portion of the stock. It was advertised for public sale some time ago, but when the time came round Mr. Dick changed his mind and has since been disposing of his stock privately.

At one time Mr. Dick's nursery was well known all over the country. His stock of camellias was particularly fine when that flower was in favor and his sales of both plants and flowers were very large. Of late years he has turned his attention to real estate and is believed to have been even more successful in this field than in the old one.

The past week the weather has been very warm and as a consequence the flowers have been very plenty. Roses of good quality can be bought for almost any price. The price asked for La France, Brides, Mermets is 3 cents, for Perles, Sunsets and Niphetos 2 cents, Gontiers 1 cent, carnations 1 cent, but no reasonable offer is refused and sales are made away below the "market" price. Beauties are the exception and only fair flowers bring fifteen cents readily.

This same week of last year a firm having a large order for white flowers had very hard work to get together 1,000 roses. On the return of the day this year the order was repeated and at least 5,000 could have been easily obtained without leaving the store. Probably the warm weather is responsible for part of this glut, but surely there are too many roses being brought in now and it really does look as if the fakir is going to have a good time this winter.

A. L. Pennock & Son are building two

iron framed houses 100x20, bedding the sash bars in cement for a wall plate.

Robert Craig is erecting a house 130x20 for carnations and another 100x20 for palms. He is also putting in a large steam boiler to be connected with the range of palm houses recently erected.

Some one ought to show the growers how to do asters. There seems to be a good many about, but they are nearly all done in 4-inch pots and wholesale for from 75 cents to $1 a dozen. We are satisfied that if they would only grow them into a size suitable for a 6-inch pot they would find a market at good prices.

The committee having the chrysanthemum show in hand are working hard and they say the exhibition will be far better than last year, which is saying a great deal. X.

Chicago.

Wm. Brooker, of the firm of Brooker & Holmes, died last Thursday morning, aged 96 years. Mr. Brooker started in the florist business in Chicago at the corner of State and Fifty-ninth streets 34 years ago and has continued at the same location ever since. Though over 60 years of age when he started here, and commencing with comparatively nothing, he died a wealthy man through the great appreciation in value of his real estate. He was undoubtedly the oldest living florist in America.

At Washington Park, Supt. Kanst has introduced a novel feature in the ponds of aquatics by placing the plants in geometrical figures, mainly the eichhornias. The ponds here are all cemented and the margins sharply defined. In one, a well defined border of Eichhornia (Pontederia) crassipes about three feet wide extends entirely around the pond just inside the margin, and in the center the plants are held in a scroll-work design. The eichhornias are in splendid bloom this week, and present a beautiful picture. In a corner of one pond Eichhornia azurea makes a pleasing contrast to the other species. The lilies have done very well this summer, including the victorias, and they have proved a great attraction to the visitors to the park. In one of the greenhouses the alternantheras propagated last spring have been already placed to be carried over the winter, and the way they have been arranged is worthy of note. The benches have been placed in a slanting position, so they grade up from the front to the back, and on these the alternantheras have been planted out in various designs similar to the summer bedding in the parks. The hardy phloxes made a grand display at this park this year and the other hardy perennials have done well. Cuttings from the geraniums and other plants are now in the sand-bed, and preparations are nearly complete for the quick housing of all tender stuff at the first intimation of frost, and the opinion seems to be general that the present hot weather will wind up with a frost.

Mr. F. Kennicott found an evidence of the unusual season in a spray of blossoms on a wild crab-apple tree last week. There were ripe apples on the same branch. Evidently the unusual weather led the tree into the belief that winter had been skipped in some way, and it was time to put out the spring blossoms.

At a banquet given the foreign commissioners to the World's Fair, now in the city, by the Exposition officials, the feature of the floral decorations was the blooms of Victoria regia and other aquatics contributed for the occasion from Lincoln Park. Mr. Thorpe conceived the idea of using these flowers for the purpose and Superintendent Pettigrew cut some splendid flowers from the ponds at the park at his request. Mr. Thorpe secured a number of broad low pans and placed the flowers and leaves in these on tables around the banquet room. The effect was superb and called forth much admiration from those present. And when Mr. Thorpe assured them that the lagoon at the Exposition would be filled with such beauties all united in saying that it would be one of the grandest features of the Fair. The foreign commissioners were especially pleased. That there is a great future before aquatics none can doubt and that they will prove of great value to the florist is equally certain. For evening decorations the night bloomers are especially available, being at their very best at night.

World's Fair matters are moving along briskly. Work on the Horticultural Building is progressing rapidly now, and requests for space in the floricultural division are being received daily by Mr. Thorpe.

At the meeting of the Horticultural Society of Chicago, to be held at the Sherman House next Saturday evening at 8 p. m., occurs the annual election of officers and there will be a very interesting programme of essays. Mr. John Thorpe, Chief of Floriculture for the Fair, will read a paper on "The possibilities of the floricultural display at the World's Fair"; Mr. Wm. H. Chadwick will read an essay on "Exotic orchids" and Mr. Jonathan Periam one on "Horticultural Societies and their growth."

Jensen & Algots have opened a fine retail store at 142 Oakwood Boulevard, one of the best locations on the south side.

The Columbian Floral Co. is the title of a new wholesale cut flower establishment on Wabash Ave., and the Auditorium Floral Co. is the name on the sign which adorns a small glass structure on the corner of Wabash Ave. and Congress St.

Among recent visitors to the city were Messrs. L. L. May, St. Paul; J. D. Carmody, Evansville, Ind.; and the directors of the Telegraph Delivery Association.

Hamilton, Ont.

The fall exhibition of the Horticultural Society and the Gardeners' and Florists' Club working together was a great success, especially when it is considered that only four weeks have elapsed since it was decided to have an exhibition.

There was a total of 1,000 entries, and the exhibits of fruits and vegetables were simply grand. Plants were not so good as they might have been, owing to want of time for preparation; but they were very creditable for plants selected from stock.

Our genial friend, J. H. Dunlop, of Toronto, was on hand with a display of roses, as were also Spears & Muston, and both fully sustained their reputations.

Messrs. G. Vair and G. Reeves, both of Toronto, were the judges of fruit, and they had all they could do from 10 a. m. to 6 p. m., but they did it so well that the directorate have yet to hear the first complaint, even from the chronic kicker, and he is generally on hand in some portion of that department.

The plants and cut flowers were judged by Mr. T. Manton, of Manton Bros., Eglinton, who also gave good satisfaction.

In the classes for plants, S. Aylett received 7 first premiums; John Morley, 3; W. Hunt, 2; F. G. Foster and E. J. Townsend, each, 1.

In the cut flower classes 11 first premiums were awarded to Alex. Reed, 6 to J. L. Harper, 5 to E. G. Brown, 3 to James Ogilvie, 2 each to J. H. Dunlop and T. O. Veale, and 1 each to James Rowe and E. C. Fernside, the last named receiving the first premium for "collection of cut flowers, largest and best display, correctly named." Mr. James Ogilvie received second in this class. G.

The Telegraph Delivery Association.

The directors of the Florists' International Telegraph Delivery Association held a meeting at Chicago last Monday and Tuesday to perfect the arrangements for the carrying on of the work for which the association was organized.

The plan is to have one member from each city in the United States and Canada and the larger cities abroad who will execute any order sent by members in other cities for flowers or floral arrangements to be delivered to customers then in that city. Such orders are generally telegraphic, hence the name of the association.

The frequency with which orders are now received for flowers to be delivered to people visiting in other cities or on their landing from an ocean trip, etc., opens quite a field for the association, and it will undoubtedly stimulate orders of this kind.

The directors present at the meeting were Messrs. C. B. Whitnall, Milwaukee; H. B. Beatty, Oil City, Pa.; R. J. Mendenhall, Minneapolis; H. A. Siebrecht, New York; Frank Huntsman, Cincinnati. They were in session two days and accomplished a great deal of work. Mr. H. B. Beatty, Oil City, Pa., is secretary of the association.

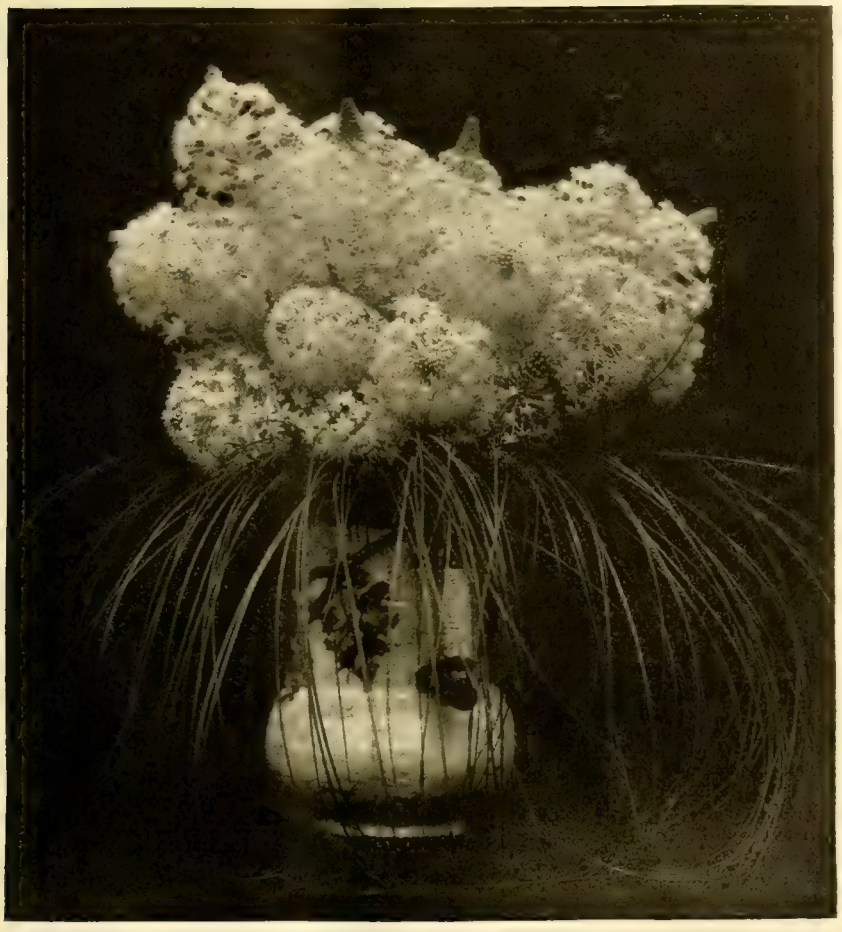
Heat Regulators.

ED. AM. FLORIST: We have been so thoroughly well pleased with an electrical heat regulator that we placed in our rose house last fall, that I am sure it will interest greenhouse men to hear about it. It is a simple and ingenious device, consisting of a rubber and metal thermostat placed in the center of rose house, and a small battery and spring motor placed in boiler pit. The thermostat can be set at any degree of heat desired. We set it at 56°. (We allow it 1° play.) When the temperature of the house has reached 56½°, a rubber and metal bar on the thermostat expands, touching a pin on one side. This completes an electrical circuit, which causes a half revolution at the motor, closing the bottom draft and opening a large check draft in the chimney, thus checking the fire. When the temperature falls to 55½° the bar contracts, touching on the other side and the electric current causes the motor to open the bottom door and close the check draft. I have visited it at all hours of the night, and am satisfied it is infallible in its operations.

Owing to this uniform temperature our roses were last winter 50 per cent. better than they were the winter previous, with the same care and treatment.

It would be a conservative estimate to place its saving in coal at from 15 to 25 per cent. I have placed my hand on the 12-inch smoke-pipe above check draft and found it quite cool, showing there is absolutely no escape of heat into chimney while check draft is open, which it is 11 hours out of the fourteen, between 5 p. m. and 7 a. m.

Our house I speak of is 102x20, three-quarter span, situated on a bleak eminence.



XEROPHYLLUM ASPHODELOIDES (SETIFOLIUM).
[TURKEY'S BEARD.]

We can leave the house and go to bed free from anxiety lest we should have too much or too little fire on. Its only failure to work, I found on examination, was due to the platinum-pointed screw becoming rusted; this was at once remedied by putting in a new screw. Thereafter when syringing I placed a small starch-box over the thermostat to keep it from contact with the water. This prevented further rusting up to the present time. I am so pleased with it that I will this fall put one on two boilers (can be done if boilers are not too far apart) to regulate a house 120x25.

The price of these regulators is from $50 to $65, according to the cost of application. There is another regulator, not so accurate to the part of a degree, but I believe unaffected by water, which would probably give better satisfaction in very damp houses.

Possibly some of your readers have this regulator in their houses, but as I have never seen anything in print about it you will pardon my taking up so much space. Would be pleased to show it working to florists in my vicinity, and to answer inquiries about it.

R. F. MORRIS,
Gardener to J. C. Rogers, Esq.
Peabody, Mass.

Xerophyllum Asphodeloides (Setifolium).

This very beautiful native herbaceous plant (turkey's beard) was catalogued by a few of our florists last season. Like some other of our native plants however it has been better appreciated in Europe than at home and has been awarded a first class certificate by the Royal Hort. Society of London. The London *Garden* says: "It is one of those old-fashioned plants that are rare in gardens. Two splendid masses were exhibited by Ford Walsingham at the recent royal Botanic Show and were the prettiest things among hardy flowers."

Its roots are tuber-like and have many fibres and its leaves about two feet long, very narrow and in crowns of about 200 clustered around the flower stem and arching backward. The spikes contain about 250 flower buds, which begin to open near the base of the stem, showing about four inches of the head with open flowers at one time and the blooming continues for some weeks. The plant prefers a sandy soil mixed with leaf soil or muck; at the same time it thrives well in the open border or in slightly shaded places.

W. F. B.

Plants in Summer.

I should like to know the best situation, or the best place for cultivating rex begonias, Chinese primroses, cinerarias, etc., during the heat of summer; how best to protect from the heat of the sun. I wish some skilled grower would give his methods through AM. FLORIST.

A SUBSCRIBER.

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

News Notes.

CANTON, O.—Fire did considerable damage to the greenhouses of John Zettler Sept. 1.

NASHVILLE, TENN.—There is talk of a chrysanthemum show here the coming November.

BUFFALO.—Mr. W. J. Palmer, the florist, and Miss Laura Mark will be married next Wednesday evening.

LOUISVILLE, KY.—The dates for the chrysanthemum show have been changed to a week later, viz: November 9 to 14 instead of 2 to 7.

WILLIAMSPORT, PA.—Mr. Harry Chaapel will make his annual trade display and exhibition of chrysanthemums at his store and greenhouses November 11 to 14. The show will be on a larger scale than last season.

AGRICULTURAL COLLEGE, MICH.—Mr. Louis Knapper, who has had charge of the greenhouses here for many years, has resigned, much to the regret of all. He did good work while here and was of that friendly spirit that attached to him all with whom he came in contact. Drs. Kedzie, Beal and Cook have recently returned from Washington, D. C., where they attended the meetings of the American Scientists.

TOLEDO, O.—Geo. A. Heinl has purchased eight acres at West Toledo and is building four houses 100x18 each and 100x12 each, all heated by steam. Mrs. E. Suder is adding four houses 82x20 and 82x17½, with cement walks, and is about to invest in 20 acres at Manhattan, a suburb here, intending to build there. She has also opened a new store at the corner of St. Clair and Adams Sts., under the management of Miss Suder. Robt. Johnston has bought 40 acres at Auburndale and is moving out there, intending to build several houses this fall. J. G. Gartner & Co. have a new house under construction. F. C. Hansen, who is 80 years old, has some rare plants, palms, etc.

A Case of Renaming.

Messrs. Hill & Co. send us a seed envelope which they received from Mr. C. W. Eichling, New Orleans, upon which was written "Sample of Unclesamia papirifera (very scarce). Sure to grow if properly handled." Messrs. Hill & Co. advise us that the envelope contained a $2 bill that accompanied an order. But when the envelope reached us the "sample" had been carefully removed, hence we can not very well say anything as to its merits. However the name sounds well and we hope that Mr. Eichling not only has a good stock but that he will handle it so properly that the growth and increase will be equal to the demand.

DIRECTORY CHANGE.—Erase the name of Geo. W. Marshall from the directory list at Chelsea, Mass. Mr. Marshall is on the list at Everitt, Mass. also and is getting a double allowance of catalogues and price lists. He gets mail from both offices, but Everitt is the most convenient one for him.

A FLASH LIGHT PHOTOGRAPH of a plant of Phyllocactus latifrons, bearing 26 open flowers, has been sent us by Mr. Joel W. Goldsby, Mobile, Ala. The plant was grown in the open air by Mr. F. Bitzer of Mobile and the photograph was taken the night of August 18 last.

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

Los Angeles, Cal., Oct. 27-31—Southern California Hort Society. H W Kruckeberg, Sec'y.
New York, Nov. 2-8—Madison Square Garden. J. W. Morrisey, Sec'y.
Hartford, Conn., Nov. 3-5—Hartford Co. Hort. Society Edwin A. Taylor, Sec'y, P. O. box 1015.
Boston, Nov. 3-6—Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont Street.
Detroit Mich., Nov. 3-7—Detroit Florists. Robert Flowerday, Sec'y, 460 John R St.
Providence, R. I., Nov. 4-6—Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.
Wooster O., Nov. 4-6—Wooster Floral Club. W. A. Porter, Sec'y.
Erie, Pa., Nov. 5-7—Erie Chrysanthemum Club. H. Tong, Sec'y.
Bay City, Mich., Nov. 5-11—Bay County Hort. Society. T. J. Cooper, Sec'y, 811 N. Water St.
Louisville, Ky., Nov. 9-14—Louisville Florists.
Pittsburg, Nov. 10-12—Pittsburg and Allegheny Florists' and Gardeners' Club G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.
Newport, R. I., Nov. 10-12—Newport Hort. So- John Butler, Sec'y, Berkeley Ave.
Toronto, Ont., Nov. 10-12—Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Nor- School Toronto.
New Bedford, Mass., Nov. 10-12—New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 32 Arnold St.
Washington, D. C., Nov. 10-12—Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St. N. W.
London, Ont., Nov. 10-12—Forest City Florists' and Gardeners' Society. Wm. Gammage, Sec'y, P. O. box 155.
Oshkosh, Wis., Nov. 10-12—Oshkosh Florists' Mrs. G. M. Steele, Sec'y.
New n. Conn., Nov. 10-12—New Britain ety.
Philadelphia, Nov. 10-13—Penn. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
Chicago, Nov. 10-13—Hort. Society of Chicago. Raynolds, Sec'y, Riverside, Ill.
Minn., Nov 10-13—Minneapolis lub. E. Nagel, Sec'y, 1116 West e St.
ore, Nov. 10-13—Gardeners' Club of Balti- Henry Bauer, Sec'y, 1875 N. Gay St.
Indianapolis, Nov. 10-14—Society of Indiana Flo- G. Bertermann, Sec'y, 37 Mass. Ave.
Germantown Pa., Nov. 10-14—Germantown Hort. ociety. Thos. B. Meehan, Sec'y.
Worcester, Mass., Nov. 11-12—Worcester County Society. Edward W. Lincoln, Sec'y, 5
Nov. 11-12—Galt Hort. Society. Thos.
ov. 11-12—Montreal Gardeners' and lub. W. Wilshire, Sec'y, 688 Sher-
t. Louis Florists' Club. ot Pennsylvania Ave
11-13—Hampden County ety. George D. Pratt, Sec'y, 192
Nov. 11-13—Utica Florists' Club. ec'y.
Buffalo Florists' Club. Dan'l Main St.
Central New York y, 228 Beecher St.
La., New Orleans Hort. harles Wise, Sec'y, Third and Pry-
Wis., Nov. 17-20—Wisconsin Florists' Club. C. B. Whitnall, Sec'y,
mn., Nov. New Haven Chrys- Club. Miss Frances S. Ives, Sec'y,
Floral ket St.
Flo- rists' Club. D. M. Tipton, Sec'y.
Philadelphia, March 29-April 1—Penn. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

FLORISTS' WINDOWS.

The appearance of a florist's window is likely to be taken by the public as an index of what he has to offer within. Cleanliness is the first consideration. Cobwebs and dust, dirty bottles filled with dirtier water, dead or dying plants, slimy flower pots, faded willow baskets with last year's dead flies scattered about—with such a window display as this (and they are not infrequent) how can florists expect nice customers to even cross their thresholds?

Fully as forbidding and repulsive to many customers are the profuse displays of the emblems of mourning which some dealers pack into their show windows, reminding one of an undertaking establishment and sending a chill up and down one's back bone.

A clean and attractive window display is one of the very best advertisements a florist can possibly have. It is not always the quantity of flowers displayed that tells, but the arrangement. At special seasons, such as Easter, a grand massing of plants and flowers of every hue will attract by its magnificence and dazzling brilliancy, but as a general rule it is well to avoid mixtures of color or overcrowding, and a single plant, if a perfect specimen or a single vase of one variety of flowers with appropriate surroundings, is often the most attractive decoration that can be made. If possible it is advisable to make a complete change every day. Do not put an ice chest in your window. If you use it for your general stock it is impossible to keep it always tidy; besides, customers do not take kindly to ice chests, which suggest to them the idea that flowers are not fresh. Another important point is the lighting of a window and the judicious use of mirrors is also a great help.

THE SECRETARY of the American Chrysanthemum Society has sent to chrysanthemum growers a printed blank upon which the recipients are requested to fill in the names of new chrysanthemums raised or disseminated this season and other information which it is desirable to be made a matter of record with the society. The system of registration of names is especially valuable as avoiding duplication. Any grower or disseminator of chrysanthemums who has not yet reported same to the secretary of this society should not fail to do so. It is just as much an advantage to the grower as to the society to have the record complete. And by this means to the raiser is secured the credit due him as the society will be in evidence to settle any subsequent disputes. The society can do a splendid work if properly supported and given the necessary information. The secretary is Mr. Edwin Lonsdale, Chestnut Hill, Philadelphia, Pa.

IN ARRANGING the details of the coming exhibition do not forget to provide a supply of cards of suitable size for labeling the plants on exhibition. We believe it would pay the management of an exhibition to have in attendance during the time the final arrangement of the plants is being completed a competent letterer of placards to prepare as needed cards giving the names of the plants exhibited, these of course to be placed on the plants. This will add so much to the educational value of the exhibition that it will pay every time to incur this slight additional expense. And the party who gives out the names should verify the spelling of any regarding the correctness of which he is in any doubt.

IN OUR ISSUE of September 3 we published an item from Newport, R. I., to the effect that "Klunder & Co., a firm of florists from New York, were in trouble," etc. The Klunder Co., of New York, who have also a branch at Newport, fear that the similarity of names may work to their injury, and in justice to them we desire to state that the Klunder Co. is entirely distinct from the Klunder *and* Co. referred to in our news item.

"POPULAR GARDENING" of Buffalo is reported to have sold out to the Rural Publishing Co., New York City.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a young florist well acquainted in the business; good design worker. J. WOLF, 170 Broughton St., Savannah, Ga.

SITUATION WANTED—To put up steam or water heating apparatus in greenhouses. Or will work by contract. Thoroughly experienced. Address CHAS. EICHENBAUM, 742 N. Ashland Ave., Chicago.

SITUATION WANTED—By a young man with ten years' experience in the growing of palms, ferns, orchids, roses, and stove and greenhouse plants. Address B, Tuckahoe, N. Y., P. O. box 42.

SITUATION WANTED—By a practical seedsman of superior executive ability, with 25 years' actual experience, possessing facts and figures and a full knowledge in detail of wholesale, retail and catalogue trade; owner of a large mailing list of cash catalogue buyers, also a large and extended business acquaintance at home and abroad, controlling several stocks grown this season. Address SEEDSMAN, 57 Chestnut St., Rochester, N. Y.

WANTED—A young, competent florist for retail store; must have A 1 references. Address B R, care American Florist

WANTED—A good gardener who is also something of a florist. Address C. T. BRIGGS, Avoca, Iowa.

WANTED—Five thousand roses, one year plants, assorted; also a good florist and gardener. L. E CARTER, Shreveport, La.

WANTED—To lease or buy greenhouses, dwelling and land, near good market. Address H WISE, Mt. Prospect Ave., Newark, N. J.

WANTED—A thoroughly competent rose grower, capable of managing a large establishment. Apply HORTICOLE, Grand Central Hotel, New York City.

WANTED—A good florist to take charge of a number of houses. Must understand propagating. A good place for the proper man Address H F M, care H. A. Dreer, Philadelphia, Pa.

WANTED—A man who has been successful in the management of a first class horticultural establishment, including a knowledge of forestry. Apply HORTICOLE, Grand Central Hotel, New York City.

WANTED—Assistant in commercial florist place; young man of neat address with some knowledge of cut flower work decoration and bedding out State references, wages expected and nationality. C. A. DAHLA CO., Atlanta, Ga.

WANTED—A splendid chance for an energetic man (German preferred) with $5 000 to $10,000, to enter an established eastern horticultural and nursery business owning valuable stock and agencies. Small risks; ample security. Address with references, OPPORTUNITY, care AM. Florist.

FOR SALE CHEAP Two Scollay and one Weathered second-hand Nos. 5 hot water boilers. JAMES HORAN, Bridgeport, Conn.

FOR SALE—Cheap, owing to failing health, two-story house, 11 rooms; two greenhouses 60x14, one 50x14, room and business for five more houses; am unable to go on with them: very centrally located, ten minutes from postoffice, electric cars every eight minutes, no expense for salesroom, all nearly new, well stocked, good cut flower trade; one-third cash, balance on time. Address F. FRENCH, 1168 E. Genesee St., Syracuse, N. Y.

TO GARDENERS AND FLORISTS.

J. C. GOODING, the well-known rose grower, wishes to retire, and will dispose of his greenhouses, all well arranged, heated by steam, about 16,000 feet of glass, dwelling and barn; lot 160x350; good location, within city limits. Cash, half down. Address 1216 Euclid Ave., Cleveland, O.

FOR SALE AT A BARGAIN.

A first-class business in a live town near St. Paul. Houses well stocked with everything needed for the coming season. Must be sold through sudden illness. Proof, profits last season over $1,000. Two-thirds purchase money can remain on long time at 6 per cent. Address X, care American Florist.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

THE OLDEST
Wholesale Cut Flower House
IN THE WEST!
KENNICOTT BROS.,
27 E. Washington Street, CHICAGO.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
(Successor to C. H. FISK),
WHOLESALE FLORIST & DEALER IN
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.
WIRE DESIGNS IN STOCK.

E. J. HARMS,
Wholesale Dealer in
CUT FLOWERS,
And Florists' Supplies.
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

Wholesale
Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

C. STRAUSS & Co.
GROWERS OF CUT FLOWERS.
—WHOLESALE ONLY.—
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

CUT FLOWERS.
The Western Trade Solicited.
Write or Telegraph.
SMITH FLORAL CO.,
77 7th Street S. - - Minneapolis, Minn.

WHOLESALE
CUT FLOWERS.
GOOD ROSES FOR SUMMER TRADE.
Write for prices.
J. M. GASSER,
101 Euclid Ave., CLEVELAND, OHIO.

F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.
Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.
☞ Wholesale Catalogue on application

Wholesale Market.

Cut Flowers.

BOSTON, Sept. 28.	
Roses, Gontier	1.00 @ 1 50
" Niphetos	2.00 @ 3 00
" Perle Sunset	2.00 @ 4 00
" Mermet, Bride	3 00 @ 4 00
" La France	4.00 @ 6 00
Carnations	.50 @ .75
Asters	.50 @ .75
Japan lilies	4 00 @ 5 00
Callas	15 00
Lily of the Valley	4 00
Stephanotis	2.00
Tuberoses	.50
Smilax	12.00
Adiantums	1.00
Asparagus	50.00
NEW YORK, Sept. 28.	
Roses, Perles, Niphetos, Souvs	1.00@ 2 00
" Cusins, Watteviles	1.00 @ 2.00
" Mermets, Brides, Wabans	1.00 @ 3.00
" La France, Albany	2.00 @ 4.00
" Beauties	2.00 @15 00
Valley	4 00 @ 6 00
Carnations	.50 @ 1.00
Adiantums	.50 @ 1.00
Smilax	10.00 @12.00
PHILADELPHIA, Sept. 28.	
Roses, Beauties	8 00@15 00
" La France, Albany	3.00
" Mermets, Brides	3 00
" Perles, Niphetos	1.00 @ 2 00
" Gontiers	1 00
" Marie Guillots	2.00
" Pierre Guillotts	3.00 @ 4.00
Carnations, long	75 @ 1 00
Carnations, short	.50
Valley	5 00
Asters	.75@ 1.00
Smilax	15.00 @20.00
Adiantums	1.00
CHICAGO, Sept 29	
Roses, Am. Beauties	10.00 @12 50
" Wabans, Mermets	3 00 @ 4.00
" La France, Albany	3.00 @ 4 00
" Brides	3.00 @ 4 00
" Wootton	2 00 @ 4.00
" Perle, Niphetos	2.00 @ 3.00
" Gontiers	2.00 @ 2.50
Carnations, long	1.00 @ 1 50
Carnations, short	.50
Asters	.50
Smilax	15 00
Adiantums	1.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.

GEO. MULLEN,
WHOLESALE FLORIST,
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

Edward C. Horan,
WHOLESALE FLORIST,
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
—ALSO—
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

THOS. YOUNG, Jr.
WHOLESALE FLORIST
20 West 24th Street, NEW YORK.
LILY OF THE VALLEY, and the Choicest ROSES for the fall and winter season.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
NO. 32 W. 30TH ST., NEW YORK.
Orders to be shipped will receive prompt attention.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

JOHN YOUNG,
WHOLESALE FLORIST
53 WEST 30TH STREET,
NEW YORK.

A. S. Burns. J. I. Raynor.
BURNS & RAYNOR,
WHOLESALE FLORISTS,
11 West 28th St.,
NEW YORK.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

CUT SMILAX
At Summer prices—15 cents. Quality first class. Shipped on shortest notice. Telephone No. 15.
JOS. E. BONSALL, SALEM, OHIO

DIRECTORY.
Every Florist, Nurseryman and Seedsman should have one.
AMERICAN FLORIST CO., Chicago.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

VICK'S MAGAZINE will be continued under charge of Mr. James Vick.

WE CALL ATTENTION to the advertisement of "Seedsman" in our "want column."

VISITED CHICAGO: J. Comont, of Carter, Dunnell & Beale, London; L. L. May, St. Paul.

D. M. FERRY & Co. are adding to their seed storage capacity a building eight stories high and 85x120 feet.

IT IS REPORTED that James and Charles Vick will continue the seed business under the name of James Vick's Sons or James Vick Sons Co.

THE Board of General Appraisers at New York have set for hearing December 4 all protests regarding duties assessed on plants, nursery stock and seeds, received prior to July 22.

Judging Fruits.

Dr. F. M. Hexamer wrought a revolution in the mode of awarding prizes at the N. Y. State Fair. Last year he suggested that fewer judges could probably make the fruit awards more quickly and satisfactorily. This year the authorities thrust upon the doctor himself that important and many-sided function, and made him the sole judge. He called all the exhibitors around him, announced a mathematical scale of merit for the several qualities, applied it in their presence to all the fruit exhibits and officially declared the awards.

DON'T YOU FORGET IT!

THE SNOWFLAKE DAISIES, treated as Violets, mean abundance of beautiful white flowers all winter; thousands of plants ready, 3-inch, in bud and bloom, $5 00 per 100; $40.00 per 1000. 2-inch, in bud and bloom, $3.00 per 100; $25.00 per 1000. Large clumps, from open ground, $4.00 per 100. Rooted cuttings $2.00 per 100.

4000 Bouvardias, 2-inch and rose pots, $2.00 per 100; double and single white, pink and scarlet

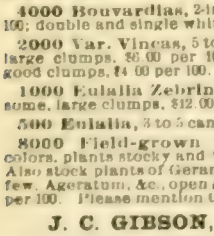
2000 Var. Vincas, 5 to 10 vines, 4 ft., field grown, large clumps, $6.00 per 100; 1000 3 to 5 vines, 3 feet, good clumps, $4 00 per 100.

1000 Eulalia Zebrina, 5 to 10 canes, very hand some, large clumps, $12.00 per 100.

500 Eulalia, 3 to 5 canes, good clumps, $8 per 100.

8000 Field-grown 'Mums, all styles and colors, plants stocky and in fine shape, $5 00 per 100. Also stock plants of Geraniums, Marguerites, Feverfew, Ageratum, &c., open ground, large clumps, $5 00 per 100. Please mention this paper.

J. C. GIBSON, Woodbury, N. J.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

Mention American Florist.

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
PANSIES	$1.00	$ 5.00
SMILAX, 2½ inch pots	1.50	12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CARNATIONS, field-grown	8.00	
VIOLETS M. Louise, field-grown	5.00 to 7.00	

Address **J. G. Burrow,** FISHKILL, N. Y.

CUT—100,000—BLOOMS.

Cosmos and Chrysanthemums,

READY NOW.

COSMOS, bunches of 50 blooms, long stems, buds and foliage, $3.00 per doz. bunches.

CHRYSANTHEMUMS, long stems, good foliage, flowers from 2 to 4-inches across, $2.00 to $5.00 per hundred.

J. L. LOOSE, Alexandria, Va.

SIEBRECHT & WADLEY,

Rose Hill Nurseries,

NEW ROCHELLE, N. Y

New and Rare Plants — Hardy Plants.

ORCHIDS PALMS, FERNS.

CUT ORCHIDS AT ALL TIMES.

Tuberous Begonias a Specialty.

MEXICAN ORCHIDS, CACTUS SEEDS.

Our **MR. CARLOS LIEBERT** will remain at his present address, 627 De Kalb Av., Brooklyn, N. Y., eight weeks longer, and will be pleased to receive orders for any of the above stock.

We make shipments direct from our Mexican address, and all our stock is **NEWLY COLLECTED** and in **FINE CONDITION. FOR PRICES** and **PARTICULARS** write him at above address.

FEDERICO PFEIFFER & CO.,

P. O. Box 601. MEXICO CITY, MEXICO.

Mention American Florist.

ORCHIDS.

THE FINEST STOCK IN THE WORLD.

SANDER'S, ST. ALBANS, ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

CATTLEYA PERCIVALIANA.

A fine consignment of this beautiful winter-blooming Cattleya just to hand. Plants have arrived in excellent condition. Also an immense stock of well established Orchids at very low prices. Write for price list.

FREDERICK MAU,

P. O. Box 322 SOUTH ORANGE, N. J.

100 FOR $25.00.

Orchids.

BRACKENRIDGE & CO.,

Established 1854. **Govanstown, Md.**

ORCHID BARGAINS.

2,000 Orchids of choice varieties for sale at extremely low prices to close them out.

Prices and names on application.

DAVID CLIFFE,

GERMANTOWN, PHILADELPHIA, PA.

Mention American Florist.

SMILAX—Last Call.

Only a few thousand left, from 2½-inch pots, equal to ordinary 3-inch, at $1.50 per 100; $12.00 per 1000.

F. A. BALLER, BLOOMINGTON, ILL.

Choice Plants Cheap

JOHN H. LEY,

ANACOSTIA, WASHINGTON, D. C.,

Will be pleased to receive orders for the following plants, (in excellent condition; low price for cash):

	Per Doz.
Dracæna fragrans, 5-in. fit for 7-in. pots	$10.00
" terminalis, 4-in. fit for 5 in. po's	3.00
Areca lutescens, 6-in. fit for 7-in. pots	15.00
Cocos Weddeliana, 5-in.	5.00
" " 4-in., extra strong	4.00
Gardenia florida major, large, full, open ground	4.00
" Fortunei, enormous flowers, " "	6.00
Grevillea robusta, 1 ft., 4-inch pots	2.00
" " 2-inch pots	1.00
Padanus utilis, 2 inch pots	2.00

PALMS IN STORE BOXES.

Areca lutescens	$8.00 per 100
Latania borbonica	5.00 "
Cocos Weddeliana	8.00 "
" plumosa	10.00 "

Platycodon grandiflorum, white and blue; Seed just gathered. Pkt. 50 cts.

F. O. B. on Rail, and extra plants to pay express.

Planting White Pine Trees.

Bids are invited for planting, in the spring of 1892, and at the proper season, of 4,000 White Pine Trees along the line of the Blue Mountain Forest Fence, about 1,500 on the west side of the mountain and 2,500 on the east side, at points to be named by me. No bid will be entertained for a less number than 500 from one party. All trees must be well formed, strong and healthy, not less than four feet high, and be thoroughly well planted. The bids must cover everything—delivery of trees and planting same.

Payment will be made as follows:

Fifty per cent. on completion and acceptance of work; 25 per cent. upon such as are alive and in good, sound condition September 1, 1892; 25 per cent. or so much of it as may be due, counting such as may be alive and in good condition June 1, 1893. The intention is that such trees as are furnished and planted are to be guaranteed to live until June, 1898, and any that are not alive at that time are not to be paid for. Address

SIDNEY STOCKWELL,

SUPERINTENDENT,

NEWPORT, N. H.

FERNS. FERNS.

We offer well established in 2½-inch pots, at

$3.00 PER 100.

Adiantum cuneatum, Anemia phylisus,
Adiantum pubescens, Onychium japonicum,
Pteris serrulata.

JOSEPH KIFT, West Chester, Pa.

Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10.00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII, DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots, strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.



CALIFORNIA BULBS ready Fine lot ***LIL. WASHINGTON,*** $8 per 100. ***PAMPAS PLUMES,*** new crop, first quality, 24–30-in., $3.00 per 100; 30–40-inch, $4.00 per 100. ***MUSA ENSETE,*** 18-in. high, $2.50 per doz.; $15.00 per 100. ***JAPAN BULBS,*** begin to ship Oct. 1st. ***FREESIAS, CHINESE NARCISSUS,*** Australian Palm Seeds.

Send for our new Trade List.

H. H. BERGER & CO.
SAN FRANCISCO, CAL.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies, Etc., Etc. For prices examine Wholesale Catalogue.

Address with business card

136 & 138 West 24th Street,
STATION E. NEW YORK.

JAPANESE PLANTS

Trees, Shrubs, Bulbs, Seeds, Etc.

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25 Bulbs at 100 price; 250 Bulbs at 1000 price. For terms of Credit, etc., see our Bulb List free to all.
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Smaller plants ($200.00 per 10,000).	2.50	"	23.00	"

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At Lincoln Park, Chicago, Head Gardener Stromback is now putting in the sand-bed cuttings from all soft-wooded bedding plants, vines, etc., taking the cuttings from the plants that have been bedded or in vases, etc., during the summer.

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The coleus were propagated about August 1 from trimmings from the beds in the park. These plants will serve as the stock from which the main crop will be propagated in spring.

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Mr. Stromback carries over only a few old plants, and these are simply to supply tall plants for vases, boxes, etc. The stock propagated in the spring will be entirely from the plants now being struck in the sand beds.

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Have also made arrangements to have grown for me a variety of other cuttings. I will make it to your interest to give me your orders. Lists on application.
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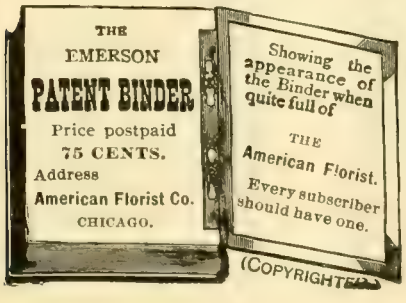
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Strong healthy stock in fine condition for planting, in 3-in. pots, $8 per 100; in 4-in. $10 per 100.

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[Pansy seed sown under too dense a shading will germinate quicker, but will produce weak plants that will invariably damp off in large proportion after a few heavy showers. I have found that lath shading, with the laths one inch apart, over the beds after sowing the seed, gives the best results. At this time of the year no shading is required. DENYS ZIRNGIEBEL.]

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Packed in best manner and delivered to Express or R. R. free of charge. Orders Solicited.

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HYDRANGEA PANICULATA GRANDIFLORA,



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We believe that our 1 and 2 year old plants are superior to those a year older offered by others.

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Japan Snowball, 12 to 18 inches	$ 2 00	$18 00
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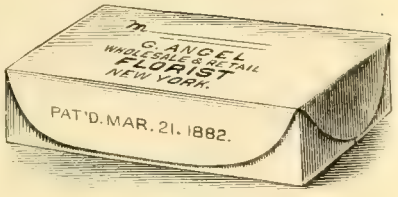
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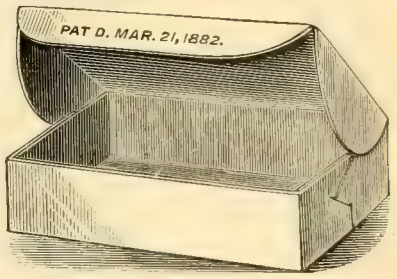
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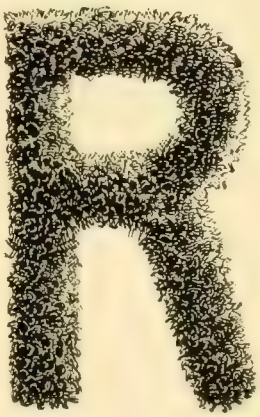
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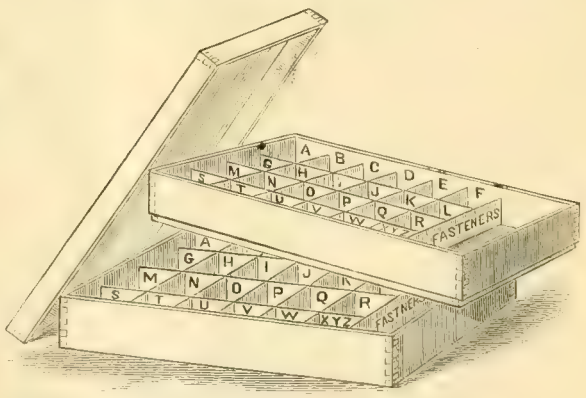
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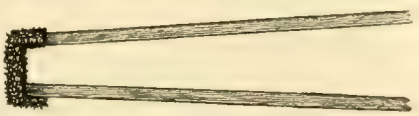
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The houses are models in construction and combine strength and beauty in a remarkable degree, and Mr. Heinl has spared no expense to make them complete in every detail. As his trade is principally in cut flowers, the new houses will be devoted to carnations and violets, with one or two houses of roses, the Cherry street place being devoted to roses, chrysanthemums, smilax and one house of palms, ferns, etc. The new range of houses are built an 18-foot one and a 10 foot one alternately, and the arrangement of the benches is such that the large house does not shade the small one at all. They are all built on the three-quarter span principle. Posts, siding and benches are all of seasoned oak, sash bars and purlins of the finest cypress, the supports all 1¼ inch iron pipe, the glass a clear double thick 12x12, laid in putty with patent zinc joints. The doors are seasoned cypress, oiled, contrasting nicely with the beautiful white of the whole interior and adding very materially to the effect. The houses are also fitted with a ventilator lift, which is by far the best I have yet seen.

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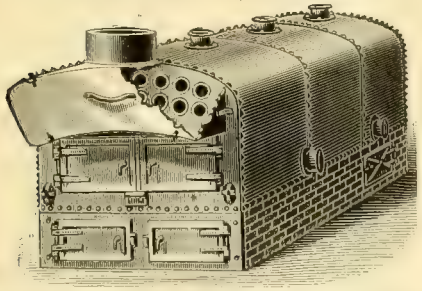
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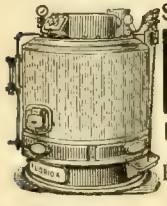
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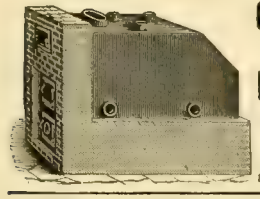
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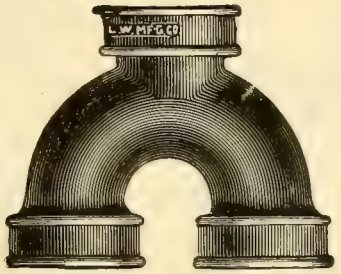


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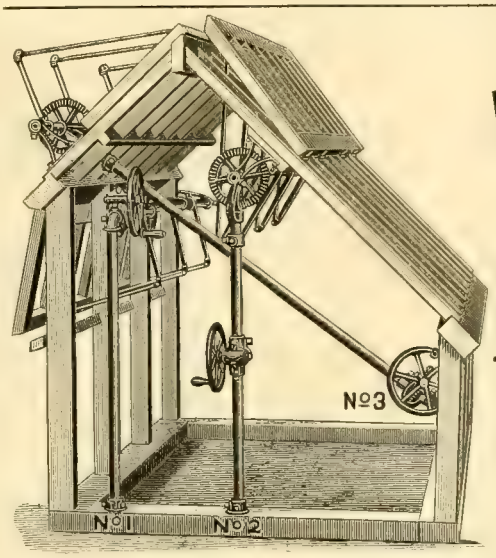
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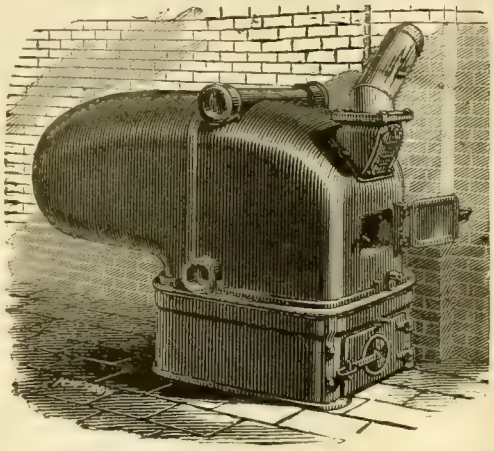
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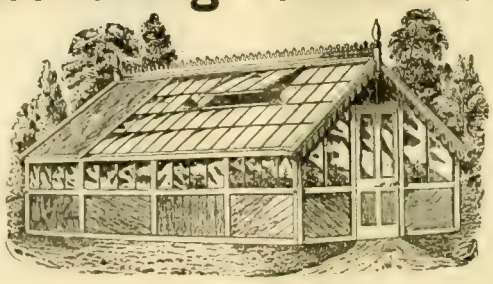
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We recently were very much pleased, as well as sorry, for one of our brother florists, who lives in _____, a few miles from us. Sorry to hear that he has had bad luck with his boiler, and pleased because we did not buy a tubular boiler, as he did.

Before he bought, we talked to him, and supposed we had him ***solid*** for a Furman; the next thing we knew, he had bought a wrought iron boiler, "way ahead of yours."

That was less than two years ago. This Summer he has had to replace all the tubes, at a cost of $120. That is the beauty of wrought iron boilers. They require too much care, and are too expensive to run, for ordinary florists to own.

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THE AMERICAN FLORIST



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Vol. VII. **CHICAGO AND NEW YORK, OCTOBER 8, 1891.** **No. 175.**

THE AMERICAN FLORIST

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IF YOU have not already so decided, make up you mind now to keep a record of blooms cut from each of the plants you grow for cut flowers, especially your roses and carnations. Of course it will be some trouble, but it is worth some trouble to know whether what you are growing pays you well, only fair or is making you a loss.

The Possibilities of the Floricultural Display at the World's Fair.

BY JOHN THORPE.

[Read before the Horticultural Society of Chicago October 7.]

Realizing the importance of the World's Columbian Exposition, and the influence it will have on industries of all kinds, I feel assured that floriculture will be benefited even more than the most sanguine can expect. It has been my pleasure to watch over, and in a measure care for, American floriculture for nearly twenty years, and when I look back and realize what has been done, a part of it seems even more enchanting than the Arabian Nights. I well remember the poorly-grown plants, improperly named, the limited knowledge of their cultivation, the almost general irresponsibility of many thus engaged, the very few species obtainable, and the general careless way in which plants were packed and shipped. But with the steady march of progress and notably by the aid of the Society of American Florists and 965 state and local societies and florists' clubs during the past six years, by the aid of the press, professional and secular, by the aid of exhibitions, and by the education which has naturally been obtained from the sources mentioned, the advance of floriculture is one of the wonders of the time.

From a commercial standpoint the last United States census report of commercial floriculture in a digest is as follows:

"In the United States there were 4,659 floral establishments in the census year, 312 of which were owned and conducted by women. The total feet of glass in use in all these establishments was 38,823,247, and the establishments, including fixtures and heating apparatus, were valued at $38,355,722.43. The value of tools and implements used was $1,587,693.93. There were employed 16,847 men and 1,958 women, the combined annual wages amounting to $8,483,657. Fuel cost was $1,160,152.66; 3,245,600 wholesale, and 17,630,094 retail catalogues are annually issued, while $767,438.21 was paid for postage, $1,161,168.31 for advertising, $354,221.86 for freight, and $554,390.55 for express bills. The total products were 49,056,253 roses, 38,380,872 hardy plants and shrubs, and 152,835,292 of all other plants, the value of which was $12,036,477.76, and cut flowers to the amount of $14,175,328.01 were reported as sold."

This brings me now to the possibilities of floriculture at the World's Columbian Exposition, as it should be. The loftiest ideas and the very highest aims only are compatible with the advancement of the profession. Small exhibits cannot be expected to be effective. Groups of plants of all kinds will not be shown simply in hundreds, but in thousands and tens of thousands.

The general massing of the plants will be on such a scale as to astonish even those who are acquainted with what has been accomplished. As a matter of fact, and one that is conceded by those best able to judge, the parks of Chicago have at this moment the finest displays of floricultural adornments of all the cities in the world. The brilliant and effective coloring to be seen in the designs at Washington Park, and the superb water lily displays at Lincoln Park, together with the fine displays at the other parks, have gladdened the hearts and called forth the admiration of hundreds of thousands. Remembering what Chicago has and is now doing for floriculture in her parks, the Floricultural Department of the World's Fair must outstrip all previous attempts in all and every one of its branches, even to surpassing the magnificent work here mentioned. This can only be obtained by a determination to eclipse all previous efforts; not one moment must be given to looking backward. There is no time to look backward.

In that magnificent building, Horticultural Hall, will be found space enough to make displays of nearly all exhibits requiring protection. The building is 1,000 feet long, with an extreme width of 286 feet. The plan is a central pavilion, with two end pavilions, each connected to the outer pavilion by front and rear curtains, forming two interior courts, each 88x270 feet. These courts are to be beautifully decorated in color, and planted with ornamental shrubs and flowers. The center pavilion is roofed by a crystal dome 187 feet in diameter and 113 feet high, under which will be exhibited the tallest palms, bamboos and tree ferns that can be procured. There is a gallery in each of the pavilions. The galleries of the end pavilions are designed for cafes, the situation and the surroundings being particularly well adapted to recreation and refreshment. The cafes are surrounded by an arcade on three sides, from which charming views of the grounds can be obtained.

Of various tropical plants there will be large groups of orchids, palms, ferns and in fact nearly every known decorative species and variety.

Outdoor floriculture will be on such a scale of magnificence as to eclipse all previous efforts, beginning with the showy tulips and hyacinths, ending with chrysanthemums and cosmos. Floriculture must be representative in every sense of the word. However much the cut flowers of roses, carnations, and chrysanthemums are admired, and, though large numbers of them are produced, they but very imperfectly represent floriculture. Plants of all kinds must be grown and cared for. We should not only have a large variety of plants and flowers for the decoration of dwellings and the adornment of greenhouses, but every plant suitable for the

decoration of lawns and gardens. For example, all bulbous plants, all herbaceous plants, and the many beautiful annuals and biennials such as are cheaply obtained and easily grown, must have all the encouragement possible at the World's Columbian Exposition. Let us do everything on a scale equal to the magnitude of the undertaking.

I venture to suggest to your society (and not only to it, but to all state societies, all other horticultural societies, and to all florists' clubs), a plan to raise funds for special purposes to create and maintain meritorious displays from different localities. State societies could, through assemblymen, ask for a special appropriation of a good round sum from their legislators. Horticultural and florists' clubs could collect subscriptions from those interested in floriculture. I suggest that a certain portion of the funds thus obtained be set aside for the collecting, transporting and maintenance of such exhibits which may be collected for the World's Fair, the greater proportion, however, to be distributed in gold and silver medals, or such other premiums as may be decided upon.

In conclusion, I predict that the World's Columbian Exposition will advance floriculture 25 years.

The Arrangement of Plants in Large Conservatories.

Florists grow their plants in pots for convenience in handling and shipping them, for it is necessary that they shall always have them, roots and tops, under complete control. And in the case of unusually large specimens, say of palms or tree ferns, boxes or tubs may be used for the roots, but the object in every case is the same. With the florist it is not how to get the prettiest and most luxuriant growth in the plants they grow as how to get them up and present them in the most salable condition, and keep them in good health in this state till they are sold. With the nurseryman it is much the same; he wants young, vigorous stock, and with root pruning, top pruning or transplanting tries to keep his plants for years in a young-like condition, when if allowed unrestricted growth they would have become too large to be profitable to him to handle or carry as merchandise any longer.

In spacious private or public conservatories, however, we want luxuriant growth, handsome forms, and a natural tasteful arrangement of the plants, and in order to obtain this instead of retaining them in pots we plant them out in beds within the conservatories just as we would in a sub-tropical garden in the open air. The beds are of irregular form, and the paths winding, like an out-door landscape, and there is nothing of the formality of the potted plant greenhouse.

Although a few large palms and tree ferns would fill up considerable of a house so far as the spread of their foliage is concerned, they must not restrict us in the way of variety. Hosts of our loveliest foliage plants as ferns, mosses, marantas, green-leaved draciænas, philodendrons, begonias, and the like luxuriate in such shady places and the stems of the palms and ferns can be draped or clad with tropical creeping plants and studded with orchids or bromeliads.

Bamboos love such a home, and according to kind and strength will rise ten or fifty feet in mass in a single season, and Rhapis flabelliformis will thrive in the densest shade. Where open or light spaces occur near the paths, anthuriums, crotons, draciænas, or other high-colored leaved plants may be ranged, and fittonias, tradescantias, cyrtoderias and the like run riot among the ferns on the ground.

Any portion of wall may be lined with moss held in place by wire netting or other means, and planted with begonias, ferns, and other plants, and we can have a little waterfall and pool in some part, the wetted rocks affording a happy home for filmy ferns, and the pool for brilliant-hued fishes.

Bananas, bread-fruit, dates, guavas and other tropical fruits can here find a home, adding interest to variety. And allamandas, stephanotis, bignonias and other handsome vines furnish drapery and beauty. Orchids as they come into bloom in the other greenhouses may be suspended from the plants or roof for gay effect and variety, and for the same end other potted plants may also be temporarily introduced, burying the pots out of sight or covering them up while they are in here, so as not to mar the natural effect of the arrangement.

In the lesser conservatories of this style a bench for potted plants is often erected along the sides of the building and where all manner of fine-leaved hothouse plants requiring warmth, moisture, and shade find as congenial a home as in a regular bench greenhouse.

As the natural style is the most pleasurable of all arrangements for large conservatories, florists should urge its adoption in public and private gardens, for we all know the better satisfied the people are with the plants they grow the more apt they are to add to the gratification of their taste in this direction, and their neighbors and other acquaintances to emulate them.

Our full-page illustration presents a view in the main conservatory of the parks of Allegheny City, Pa., showing the natural style of arrangement as there adopted. The picture is certainly a beautiful one, and Supt. Hamilton is justly proud of the result of his labors.

Our Telephone.

"Hello!"

"Is that Mr. Robert Craig, of Philadelphia?"

"Yes."

"Mr. Craig, have you anything to say which you think will interest the readers of the FLORIST this morning?"

"Well, you might tell them that the coming chrysanthemum show here will be strong in seedlings of merit. We are all into it this year, and there are sure to be some grand ones."

"Do you still consider the 'Widener' the best yellow on the market?"

"Yes, decidedly. We have a whole house of it that promises well, but we have also a house of 'Lincoln' which I regard as the next best yellow in cultivation. It comes in about a week earlier than the 'Widener,' and is consequently indispensable.

"We are just potting off a batch of that useful little white chrysanthemum 'Ivory.' Its habit is perfect, being shapely and symmetrical, as well as very dwarf, and it is unexcelled as a pot plant."

"How about ferns? Anything new?"

"Yes, we have some recent arrivals. Adiantum Versaillensis is one of these. It is a compact, crested form, good color, with a purplish cast, and will be much sought for amateur collections, although perhaps not specially valuable for the trade.

"Pteris serrulata cristata Dicksonii is handsomer than the old cristata, being more dwarf and of finer form, and will be valuable as a basket fern.

"Adiantum Mayii is a new one that originated with us. It appears to be a cross between cuneatum and decorum, having the characteristics of both of these, but that is not certain, as it is a chance seedling; a 'love child,' I call it, and naturally it is a good one; but you'd better not say anything about that.

"Nephrolepis davallioides furcans is beginning to be recognized as a table decorative plant. It stands unusually well.

"Another good table fern is Nephrolepis Zollingeriana. It is very graceful, is a rapid grower, and can be done cheap. Florists generally don't know its value yet.

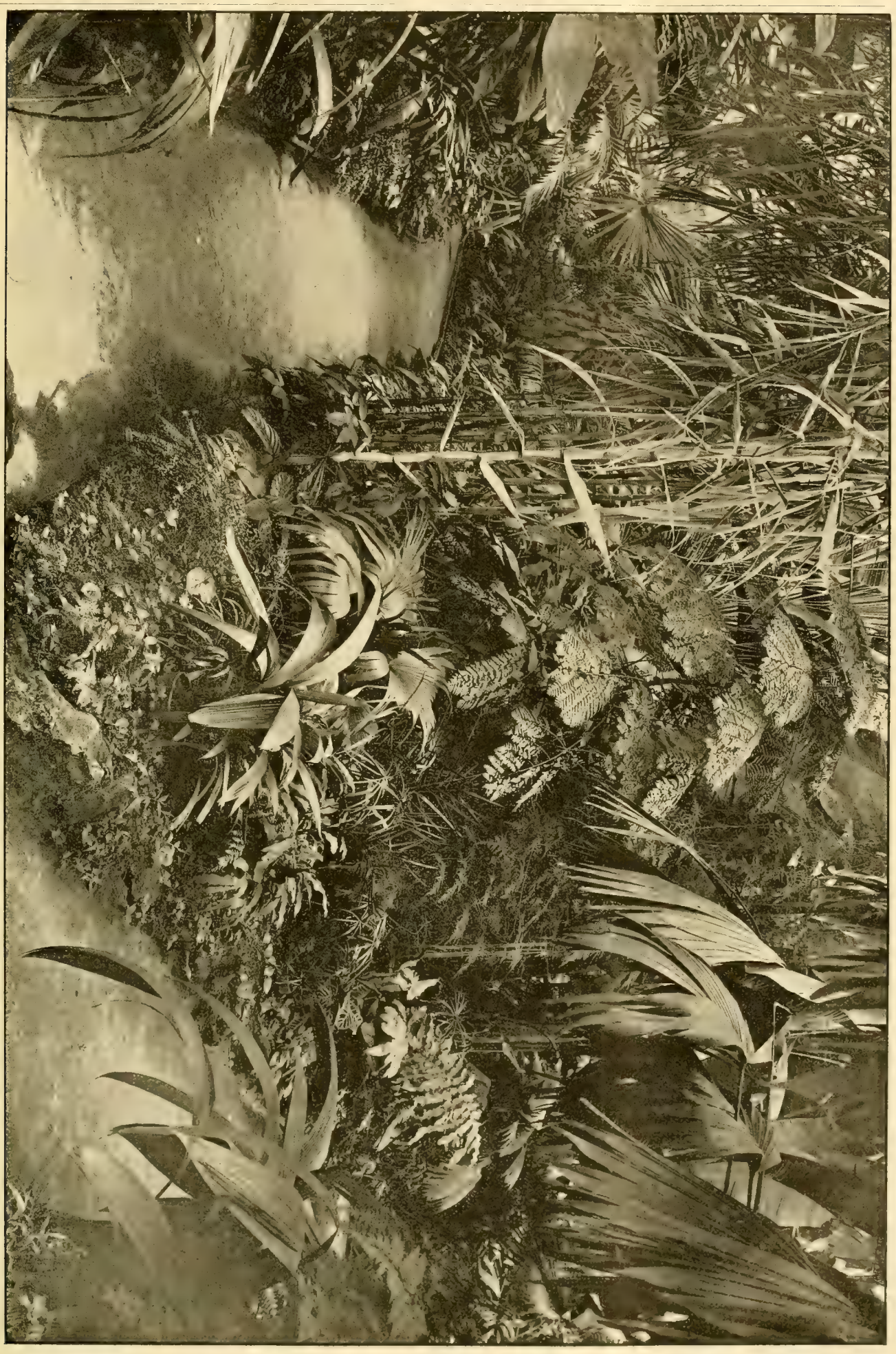
"By the way, we have adopted a new method of palm growing. We find that planted out on the benches from thumb-pots they grow as fast again as when kept constantly in pots. We got the idea from Belgium, where some of the largest growers are doing it entirely this way. We all know the difference in growth of roses or chrysanthemums when planted out as compared with those grown in pots, and I find that with kentias and other palms the difference is fully as great. When the plants are large enough we put them in 5-inch pots, and they do not suffer in the least from the lifting.

"Our Philadelphia palm growers are coming to the conclusion that we cannot in the future profitably import palms from Europe. The plants they send over here are badly drawn up. They should be given more room from their earliest stages until sold. Dealers over there seem to think that anything is good enough for us, but their stuff is not well enough grown for the American trade. We have all had enough of it, and we are about done importing. The same story applies to araucarias. We have a lot of Araucaria excelsa that were recently imported. They are all seedlings, and consequently imperfect and irregular at the bottom. Over there they could not sell such plants, but they expect us to be satisfied with them. We shall soon grow our own. This will open up a new field, and American florists will soon find that home grown plants will do better every time than imported ones. If some enterprising seedsmen will undertake to supply us with first-class fresh palm and araucaria seed we will support them heartily, and they will find a good demand. Foreign houses which are now loading up with palms for the American trade will certainly be disappointed. It should be generally known that araucaria seed to be good should be imported only in cones. They come from Australia and the adjacent islands, and if shelled out they dry up too much and will not germinate."

"What has been your experience with summer-blooming roses this year, Mr. Craig?"

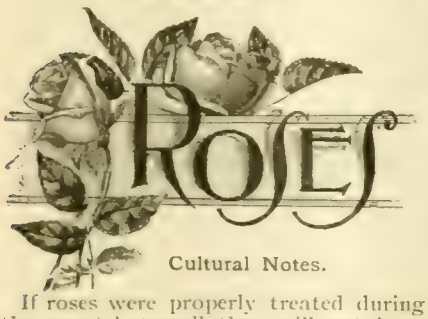
"Well, we regard Marie Guillot as decidedly the best out-door rose. As a pot plant it is also unequaled. It is a most profuse bloomer. Our neighbor, Jacob Becker, makes a profitable thing out of it every summer. We find that the 'Gontier' is the best out-door red tea rose that we have to-day. It is a splendid bedder. Plant it out in a mass with a border of 'Clotilde Soupert' round it, and you have a fine combination.

"We are making quite a success with seedling cyclamens, and find them far superior to plants grown from imported bulbs. From seed sown one year ago this month we have plants now, some of which are a foot across. This year we



VIEW IN THE CONSERVATORY OF THE PUBLIC PARK AT ALLEGHENY CITY, PA.

sowed our seed earlier, and look for still better results next year. We keep them through winter in small pots until May, when we shift them into 4-inch pots, and set them in frames outside. By July they are ready to go into 6-inch pots. The trying thing is to get them through the hot weather. This we accomplish by covering the raised sashes with muslin, thus securing a good circulation of cool air. Another essential is to keep them clean. Green-fly will soon curl the leaves unless watched. We lay tobacco stems between the rows, changing them every three weeks."



Cultural Notes.

If roses were properly treated during the recent hot spell they will not have suffered to any great extent from the heat except that the crop of buds that may have been on them were hurried open.

By proper treatment I mean lots of air during the day, a little through the night and not too much water. Fortunately it has been so we could regulate the growth by ventilation and controlling the moisture, whereas had it been wet as well as hot we would have had a rapid and soft growth on the plants, which is I think very undesirable at this time of the year with some varieties like Watteville and Cusin, causing a blind growth and resulting in but few flowers for a good part of the winter. I well remember having a house of these two kinds a few years since that were kept too wet during late August and September. The weather being favorable they made a beautiful growth. What a fine house of roses I had to show any visitors who called around just then! I always took them in that house last, so they might go away with a good impression of the place. The luxuriant appearance of the plants was very much admired by several people, but one or two (whom I presume had been through a similar experience) said: "It is a fine growth, but a little soft." The result of this soft growth was very few and poor flowers until the days began to lengthen in February and the plants left in suitable condition for mildew, etc.

Do not by any means allow tea roses to go to rest or dry them off at this season; that would be equally as bad as the soft growth; but by limiting the supply of water and giving plenty of air try for good tough wood.

I favor a little ventilation at night until firing is commenced, for though the house gets a few degrees cooler, it is better than a close, stagnant atmosphere, and plants that are well hardened will not easily suffer by a temperature of 50° at night. Don't wait too long before you begin to fire, and of course then ventilate as the case may require. Should your house keep cool enough with one steam pipe or a very slow hot water circulation, there is no special necessity to open the sash, for as soon as you apply heat there is more or less ventilation through the cracks at the laps of the glass or other openings to be found in any greenhouse, though a little more fire with slightly opened ventilators would be still better for a time. Should the weather be wet or foggy don't attempt to keep the desired temperature with closed sash and small fires, but put on plenty of air and then fire to keep thermometer at point wanted.

Of course all watering and syringing must be done early in the day and if the weather is clear don't be afraid to use the syringe, for red spider increases rapidly when the surroundings are favorable and the hot pipes will help them, so take every opportunity to get rid of what you have. See that your men know what they are using the hose for and that it is necessary for every leaf to have a good wetting on the underside. Should there be a board walk through the center of large middle bed for convenience in tying, cutting buds, etc., let them go along that with the syringe once in a while, for many a fine house of roses has been injured with spider starting alongside that very board. All men are human and greenhouse men like others are apt to do their work in the easiest way for themselves and this board walk is not a convenient place to syringe from, especially if they must get under the bottom leaves of the plants.

Make short work of any green fly that appears, even if you have to fumigate to do it and spoil a few buds by doing so, but get rid of the fly some way. It is best if possible to avoid burning tobacco in the rose houses, as it is almost sure to damage the flowers to some extent; scattering the stems around the walks and underneath the benches is the best plan I have found, but it is expensive where tobacco is scarce.

A few years ago I had two or three hose taps put into the steam pipes in some of the houses, then filled a barrel with stems and screwed the hose on to pipe and into the bottom of the barrel, then turned on the steam, thus causing a jet of steam to force its way through the barrel of stems, causing a very pungent vapor that was death to the green fly. It is necessary to move the barrel along the house as the vapor seems to fill only the part near it in a reasonable time. This plan is destructive to the common hose, but might be worth trying where tobacco is expensive and steam is used.

This is the great mildew season, so use sulphur whenever it appears, but not in heavy doses, as I believe it is injurious to the roots if washed down to them in large quantities. It is not necessary to put it on heavy, but have it well distributed over the parts affected. Closing up the house for a short time after using it if the day is clear will make it much more effective, but be careful not to let it get too hot (say over 90°) or the plants will be damaged. Mildew will give very little trouble after you are firing regularly and then of course the sulphur is applied to the pipes.

Roses in most places will now be tied up to wire or stakes. Where it is not done it should be commenced at once and by all means avoid having them tied with a string around the whole plant, crowding up a number of the lower leaves into a tight bunch in the center. If the plants are very bushy put in two stakes and fasten them up first the long, strong shoots. The short stuff at the bottom is better left untied than to be bunched up like a wheat sheaf.

The fall top dressing should now be given. Before putting it on have all dead leaves, etc., picked from the plants and beds. If the manure is at all fresh or hot it should be turned over two or three times before using. By doing this you will of course lose a little of the ammonia, but that is better than to burn the roses. After putting on the manure if you are at all afraid of burning take some fine screened dry soil and spread thinly over the top of it. A very little will absorb what ammonia is likely to escape from a mulching 1½ inches thick. If possible always ventilate night and day for a few days after putting on fresh manure.

A dressing of bone dust on the soil before putting on the top dressing will be beneficial if you think the soil is not very good. Bone unless very fine is slow in its action, so the plants will not get the benefit of it as quickly as they will from the manure, the value of which goes down to them in the form of liquid, but the roots will come up to the top of the soil after a while and then get tangled up with the small pieces of bone much to their benefit.

Be careful not to use bone with acid in it. The safest I have found is button bone. It is the chips and waste from the lathe when turning buttons and other bone articles and so has had nothing applied to soften it and make it easily ground; it is rather coarse, but when the roots set among it the plants are none the worse for it. JOHN BURTON.

Chestnut Hill, Pa.

[The above was intended for last week's issue, but was received a little too late for that number.—ED.]

Rose Reminders.

The tying of roses is one of the important details to be attended to at this season of the year. Very often the plants are tied too close, that is to say they are not left sufficiently loose or open to admit of sun and air freely among the leaves and branches. When we consider that the leaves are the lungs of the plants it is of great importance that sufficient breathing space should be allowed.

Many establishments are now using wire almost exclusively. The latest is a steel rod instead of the commoner cane or other wooden stake. They of course have to be secured at the top to wires running horizontally the length of the house in the same manner that thin stakes have been used formerly and are still used in some places. The first expense of the steel rods will cause some to hesitate about using them, but they will certainly prove to be the cheapest in the end. If they are galvanized, so much the better. Indeed it seems to me that they ought to be galvanized, both for the sake of appearance and the handling.

If not already done, a light top dressing of well rotted cow manure should be given without further delay, as it is better to do it now when a crack of air may be left on all night. A little and often is better than the old style of giving a mulching of six or eight inches of fresh and pasty cow manure.

Care must be taken when heat is left on all night that the temperature is not allowed to get too high. Artificial heat and some air is much better for the well being of the plants than no heat and a tightly closed house.

Much good judgment must be exercised in the management of the crops of buds. Chrysanthemums will soon be with us, when it is not wise to have too many roses. In disbudding leave only the very strongest of the shoots to flower, then take off all the buds but one.

Among new roses Mme. Pierre Guillot is attracting a great deal of attention. Mr. J. N. May thinks so well of it that he has one of his large houses planted with it. It belongs to the same class as Mme. de Watteville, but it is a much more refined flower, and Mr. May declares that

it is not so liable to burn in the spring as the older variety.

Ma Capucine is coming to the front again. It is the daintiest little rose in cultivation and if I am not very much mistaken will become more popular as time goes on. It is much smaller than Bon Silene and it has no more petals, but the color is exquisite. The time is approaching when this will be taken and Paul Neyron and its compeers left, excepting possibly in the spring months, when its frailty will render it less valuable than in the cooler weather of winter.

For early forcing it is time hybrids were pruned. These require very careful watering for some time after being started. Many plants are killed outright and others weakened through carelessness at this critical period of their existence, so much so that the item of watering alone will either make or mar the crop, which will always make the forcing of this class of roses to a successful issue, an uncertain undertaking. E. L.

The season has now arrived when great care should be exercised in keeping the atmosphere in the houses in a healthy condition, particularly during mild nights when it may appear from general indications that the outside temperature is not cold enough to require fire heat, for herein lies the danger of implanting disease, such as black spot, mildew and many other kindred troubles. A temperature of 56° at night without fire heat for several nights in succession, particularly if a heavy dew is seen on the plants in early morning, means wholesale destruction of many fine plants and blighted hopes of crops of fine flowers. To avoid such a calamity I would advise keeping a very little fire heat circulating through the houses at all times after it is necessary to once start it, and on mild nights have a little air on to keep down the temperature, the main object being to keep a healthy atmosphere during the night to prevent any heavy dews collecting on the young foliage. I have seen several cases where the young foliage would after three or four nights of such conditions show slight indications of flagging in the bright sun and in twenty-four to forty-eight hours after the entire surface under them would be covered with the leaves and all the young wood would turn first a spotted brown, then black clear back to the old hard wood; this means the destruction of the entire crop for two or three months, and what is still worse, the very sudden check to the tops means an equal check to the root action, and in some cases I have known it to completely kill the plants.

When anyone is so unfortunate as to get caught in such a way the only remedy is to cut the shoots affected clear back to healthy wood; keep the soil at the roots as dry as reasonable without injuring the remaining part of the plant and keep plenty of air on the house during all mild days and nights too till the plants show indications of making new growths, then gradually increase the amount of water, but be very careful not to overwater the soil at any time till the root action is fully active again. Where healthy young stock is still on hand it often pays to replant if the stock is badly affected. Black spot, so common among some of the hybrid teas, is simply a modified form of the above, bearing the same relation to it as an ordinary sore throat does to a severe case of diptheria, and the causes producing them bear a very strong resemblance; and if we would only give the matter a few minutes' careful thought we would quickly see that to have our plants during warm days at this time of year often subjected to a temperature of 80° or more with an abundance of air circulating through them and then allow them within a few hours to stand in a cool, stagnated, moist atmosphere of 25° to 35° less, cannot but work to their injury. With an abundance of air circulating through them such a rapid change may not do any harm, as these conditions often occur in the open air during September and October and often the finest roses of the season are produced under just such circumstances. Now this very fact is frequently the cause of such trouble as above described, because the grower does not stop to consider the difference in the conditions between roses grown under glass and those in the open air, where nature provides a free circulation of air among the plants day and night alike.

JOHN N. MAY.

Staking Roses.

Have read Mr. Salyer's notes on staking roses, but differ with him in his opinion that cane stakes are the neatest in appearance of anything yet used. I would advise him to use wire and do away with stakes altogether. I will describe the method used here.

The top wires are fastened to the rafters with screw-eyes and the lower ones to the benches, either lengthwise or across; the latter I think best, being more convenient in cleaning between the plants. Then smaller wires are fastened to the larger ones at top and bottom, at the back of the plants. These cast much less shade than any stake, there is no rotting off and no hollow canes for insects to hide in. This plan originated here four years ago, and has since been used by other growers. JOHN SMITH.

Bayside, L. I.

A number of the eastern rose growers have been using for several years thin galvanized wire to tie their roses to. This is arranged by fastening a heavier wire over the rows of plants the length of the house, 4 or 5 feet above the soil, and in some cases directly under the rafters; other wires are put along or across the bed just above the soil; from one to the other of these wires, at each plant is fastened perpendicularly a thin wire to which the plant is tied.

The advantages of this plan are: The wire does not rot, is held firmly in place, is so thin it makes no shade and does not look heavy or clumsy when plants are small. But I have found it a great trouble in the summer. When taking out old plants it has to be removed entirely from the bed and hung to roof to be out of the way when cleaning and filling the tables. It is also difficult to put back again unless taken all to pieces, and this will result very shortly in breaking off the wire that has been twisted at the ends of upright pieces, making them too short to use again in same place.

A better plan, I think, is that described by Mr. Salyer in FLORIST of Sept. 24, page 146, but in place of cane stakes I use No. 6 steel wire rods. These are plenty stiff enough in 5 foot lengths and that is quite as long as roses generally need. The rod can be got from any wire manufacturer, they cutting it to any desired length. It would be best to have it galvanized, and I suppose it could be had in that shape without much additional cost. Those I used we painted, a man doing 2,000 of them in half a day by using a broad brush, laying a handful of them on a board and rolling them over as he used the brush. They will need two coats of paints to make them white, but one will keep them from rusting and lighten them up some. The cost of these rods is a trifle over $10 per 1000, 5 feet long. This I think is reasonable considering the time they will last.

I first saw this plan used at Messrs. P. Henderson & Co.'s and was much pleased with the neat, strong job it made and the ease with which it could be applied.

JOHN BURTON.



Seasonable Hints.

Now as the nights get longer and cooler many of the varieties will be showing color. Of course, those plants that are being grown for exhibition purposes must have careful watching, so as to attend to their needs at any moment.

When damp weather sets in, look out for any signs of fungus on the flowers. A little fire heat will be of benefit when the temperature gets low, and I advise keeping a chink of air on all night, so as to maintain a buoyant atmosphere. It is astonishing how chrysanthemum flowers grow under such conditions; the flower stalks thicken, the petals expand more, and the plant generally improves with the treatment mentioned.

Plants in pots for sale or for ordinary decorative work should also have the best of attention. I regret to say that there are still some growers of chrysanthemums who subject their plants to bad treatment. They think chrysanthemums will give them good flowers if they are put under the benches, on the pathways in dark houses, or crowded away in obscure corners; and this after months of work has been expended in caring for them. It's all wrong and should not be done. Those plants from which cut flowers are expected must have careful attention and the best of manipulation to obtain the best results. JOHN THORPE.

Classification of Chrysanthemums.

The classification of chrysanthemums having been placed in my hands by the National Chrysanthemum Society, I have associated with me Mr. A. H. Fewkes, and we would respectfully request the co-operation of, and solicit correspondence with, all chrysanthemum growers and anyone interested in the subject.

It is the intention of the committee to have all the information embodied in the report as authentic as possible. Any communications addressed to Mr. A. H. Fewkes, Newton Highlands, Mass., or myself will be thankfully received and promptly attended to.

ELIJAH A. WOOD.

West Newton, Mass.

SECRETARY RAGAN of the Indiana State Horticultural Society, in a communication to the Indianapolis *News*, says that as far as he is able to ascertain that society was the first of its kind and character organized west of Philadelphia. The society was organized August 22, 1840.

Cannas.

Cannas are now in their full glory and when you get several acres together they are a wonderful sight. I have taken great pains to compile the following classification from the fields before me. There are many good sorts outside this list, but those mentioned are very marked in merit under the different classes. The height is taken from plants grown under ordinary field culture. Planted and tended with plenty of manure and water, they will grow somewhat higher.

CLASSIFIED LIST OF CANNAS:

1.
Largest Flowers and freest blooming sorts.
Petite Jeanne
Souv. de M. Liabaud
Ulrich Brunner
Anton n Crozy
Jos Metral
Victor Hugo
Admiral Courbet
Isaac Casati
Edouard Andre
Jules Chretien
Francisque Morel
Star of 1891
Mme Crozy

2.
Yellow Flowers.
Admiral Courbet
Guillaume Coustou
Epis d'Or, 5 feet
Gladioliflora
Souvenir de Ceres
Premices de Nice

3.
Scarlet Flowers.
Ulrich Brunner
Edouard Andre
Victor Hugo
Safrano
Chevalier Besson
Revol-Massot
Francisque Morel
Commandant Riviere
Noutoni
Adolph Weick

4.
Flowers Yellow, Spotted Crimson.
Childsii
Mme Antoinette Allamagny
Mme de Sevigne
Louise Chretien
Mme Sabatier
Nana Grandiflora
Tonkin
Guillaume Coustou
Gen Boulanger, 4 ft
Emile Leclerc

5.
Crimson Colors.
Jules Chretien
Souv. de M. Liabaud
Murillo
Antonin Crozy

6.
Red Flowers.
Cardinalis, 3 ft
Henri Martin

7.
Scarlet and Crimson Flowers, With Yellow Border.
Star of 1891
Mme Crozy
Petite Jeanne

8.
Amber and Terra Cotta Shades.
M. Coulouvrat
Jacquemet-Bonnefond
Simone

9.
Dark Foliage
Safrano, 5 ft
Flamboyant, 4 ft
Ornament de Grand Rouge [Extra fine, very effective, 7 ft]
Robusta, 7 ft
Robusta Perfecta, 8 ft
Nigricans, 4 ft
*Zebrina, 4 ft
*Rendatleri, 4 ft
*Metalica, 5 ft
*Van Houtte, 4 ft
*Victor Hugo, 4 ft
*Isaac Casati, 3 ft
*Discolor
[This variety has the finest musa-like foliage of any. Set at right angles, the effect is very imposing, 8 ft]
*Barilleti, 5 ft
Gen de Negrier, 2 ft
[*The foliage of varieties marked thus (*) is not very dark, but ribbed and dark shaded.]

10.
Best Green Foliage.
Ehmanni, 6 ft
B. Cousancat, 8 ft
[The latest of the large and free-flowered kinds. Flowers large, scarlet]
Tonkin, 1 to 1½ ft
Albiflora, 1 to 1½ ft
Brenningsii, 1 to 1½ ft
[Foliage marked with white]
Simone, 1½ to 2 ft
Mme de Sevigne, 2 ft
Louis Thibaud, 2 ft
Antoine Chantin
Jules Chretien
Cardinalis, 3 ft
Glauca Vera, 5 ft
Selowii, 5 ft
Francisque Morel, 2 ft

11.
Tall Varieties.
Safrano, 5 ft
Epis d'Or, 5 ft
Antonin Crozy, 4 ft
B Cousancat, 8 ft
Discolor, 8 ft
Robusta, 7 ft
Robusta perfecta, 8 ft
Ornament de Grand Rouge, 7 ft
Metalica, 5 ft
Ehmanni, 6 ft

12.
Very Dwarf Varieties.
Tonkin, 1 to 1½ ft
Albiflora, 1½ ft
Brenningsii, 1½ ft
Mme de Sevigne, 2 ft
Simone, 2 ft
Souv. de M Liabaud, 2 ft
Chevalier Besson, 2 ft
Star of 1891, 2 ft
Mme Crozy, 3 ft
Petite Jeanne, 3 ft
Murillo
Ulrich Brunner
M. Scubeyrand 1½ ft
Gen de Negrier, 2 ft

13.
Foliage for Contrast.
Ornament de Grand Rouge
Discolor
Brenningsii [marbled white]
Flamboyant
Robusta
Safrano
Ehmanni
B. Cousancat

OCCASIONAL.

Notes on Garden Vines.

BY WM. FALCONER

CLEMATIS PANICULATA is the prettiest of its race for September flowers. Perfectly hardy, a good grower and sure bloomer, and, apparently, not affected by clematis disease.

MAURANDIA (Lophospermum) SCANDENS, for a fast growing, dense habited, free-blooming vine can hardly be surpassed, and from midsummer onward it is smothered in bloom. A tender perennial easily raised from seed or cuttings, but I prefer to treat it as an annual and raise the seedlings in spring. No good for cut flowers.

MAURANDIA BARCLAYANA, of various colors is fine where a small vine is needed, especially in dryish sunny places, and it blooms very freely. Treat it also as an annual.

MAURANDIA ANTIRRHINOIDES isn't nearly as large a plant as Barclayana, nor are its flowers as large. I grow it for variety's sake.

SOLANUM JASMINOIDES VAR. GRANDIFLORUM. The last week in September this handsome vine was still in full bloom out of doors, and so it had been for ten weeks before. Get it, keep it in a cool house in winter and plant it out in summer.

ARISTOLOCHIA ELEGANS.—I have this vine planted out on a trellis and it has grown rampantly and for the past two months been laden with its striking, showy, pipe like blossoms, a bud appearing at every leaf axil. A Brazilian vine easily raised from seed, and seedlings the second year make fine blooming plants.

MINA LOBATA is blooming better with me this year than ever before, but why, I don't know, for its cultural conditions are just the same as in former years. It always grows rankly, however. Easily raised from seed.

THE CANARY CREEPER is a very unsatisfactory vine with me. In some years it behaves fairly well, in others, as it has done this year, it acts miserably and will neither grow well nor bloom well.

QUAMOCLIT COCCINEA.—A pretty pest. Our good friends in the south would be glad to get rid of this annual vine as it comes up everywhere and spreads over everything, and although it is smothered in blossoms all the time, its pretty flowers hardly compensate for its rascally intrusion. In the north, however, it isn't so much of a pest, and I always find room for it. But John, you must stop calling it Ipomæa gracilis, for this is a mistake.

CYPRESS VINE sown in May are withered, ragged, seedy, and practically past some time ago, but those sown late in June are fresh and green and full of fiery, starry blossoms.

TACSONIA LÆVIS is a little beauty of a passion flower from Brazil. It loves good ground and a warm sunny place to grow in in summer when it blooms freely as it is now doing with us. A tender perennial vine gotten up from cuttings. This is what is commonly sold as Passiflora Smithii.

MOONFLOWERS never bloomed better than they have done this year. Even those I sowed in the open ground in May came into bloom the first of August.

IPOMÆA LEARI, in the morning, is the most cheerful flower of its race with us, so luxuriant in growth and profuse in bloom, and so easy to propagate from cuttings, or seed either if you have them.

IPOMÆA HEAVENLY BLUE.—Mrs. Theodosia B. Shepherd of Ventura, Cal., sends me leaves, stems, flowers, seeds and photographs of this variety, and tells me that it originated in her grounds, and is, she believes, a hybrid between Ipomæa Leari and Mina lobata. She is in ecstacies over its supreme loveliness, and, certainly the photographs bespeak a wonderfully beautiful morning glory. Flowers of the size of I. Leari, but of the pure blue color of Salvia patens and without a trace of purple in them.

MUCUNA PANICULATA.—I had some seeds of this vine last spring; some of them were raised under glass and the seedlings planted out in May, others were sown out of doors in May. At first the plants grew slowly but after midsummer, rapidly enough and soon became very rampant Lima bean-like vines with axillary racemes of flower buds, and now it is beginning to bloom. The flowers are pea-form, but have not open showy "wings" like a sweet pea, of a bright chocolate color, and no doubt when borne in quantity and in long racemes are quite pretty, but I am inclined to regard it as rather late blooming for this part of the country. In the south, however, I am informed, it is grand.

MATRIMONY VINE.—At no time of the year has it been so full of bloom as it now (end of Sept.) is, but this may be on account of the exceedingly dry summer we have had. Still it isn't a desirable plant to cultivate.

THE MADEIRA VINE is now in fine bloom. Although it thrives admirably in hot, dry places, few plants are more grateful for good living than is this fleshy-leaved tuberous plant. But it likes good drainage.

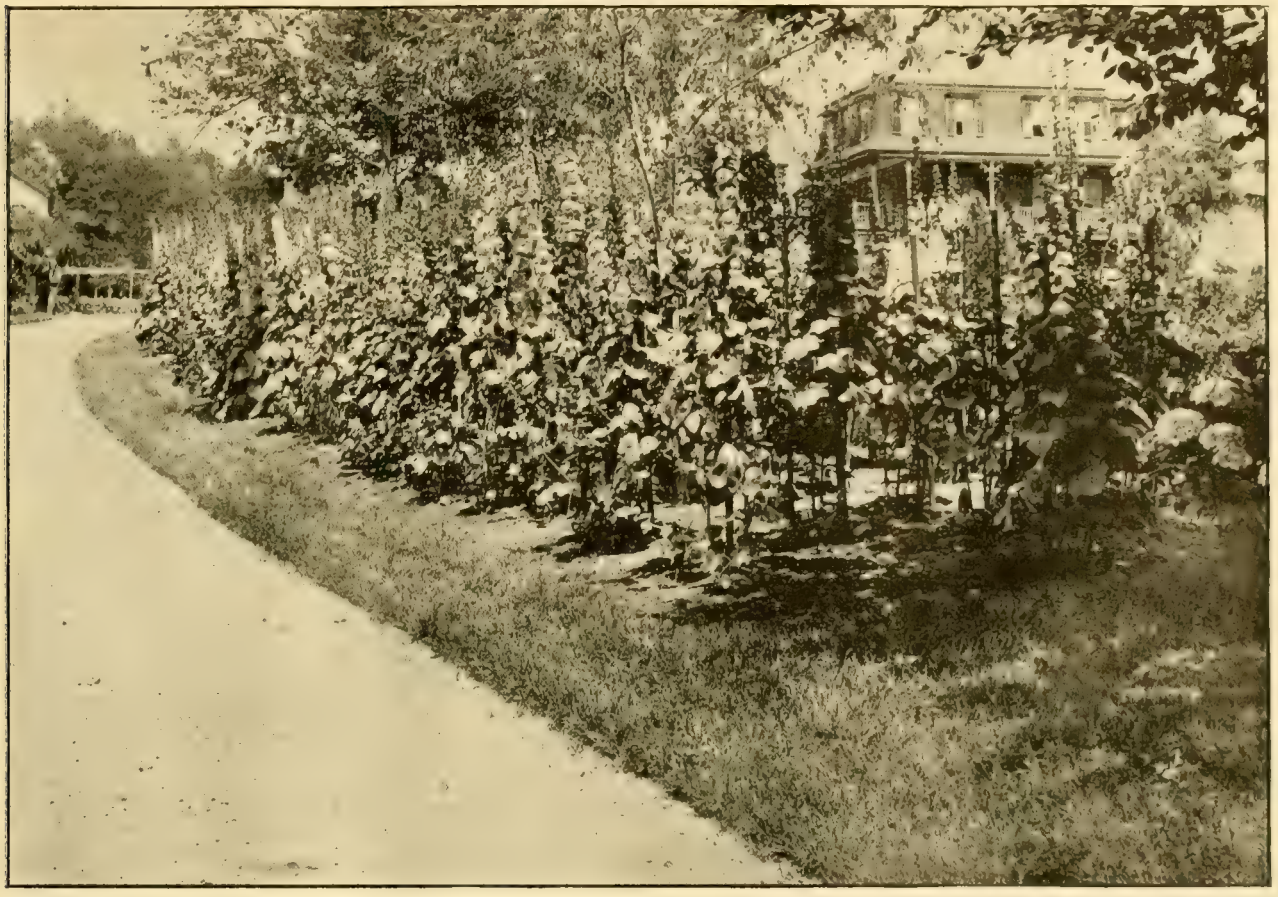
THE MANETTIA VINE (M. bicolor) holds its own as a pretty little perpetual blooming vine. Plants raised from cuttings in the ordinary way bloom from the first, but those raised from rooted cuttings wait till they make considerable vine growth before they begin to bloom.

MANETTIA CORDIFOLIA has also strong friends, in fact many prefer it to bicolor, and when it is in bloom it really is very floriferous and attractive. But as a rule it doesn't bloom right away and so continuously as bicolor and I don't find it as thrifty or as easy to get up a big stock of in a hurry. I tell you it makes a customer feel pleased when he gets a plant and it is in nice bloom as bicolor is always wont to be.

DOLICHOS JAPONICUS.—Last spring we built a small wooden house and wished to cover it out of sight and quickly with vines. I lifted two big plants of this hardy vine and planted them in good prepared soil against the building and ran up strings to the eaves. By the end of June the walls were hidden by the dolichos. But beyond being a hardy, rapid growing, herbaceous vine with bold foliage it has little to recommend it—it has no floral beauty.

COBÆA SCANDENS is also a splendid soft-wooded vine for covering a building in a hurry. It is a tender perennial, but I treat it as an annual, and have it in fine condition into November. It blooms abundantly and both flowers and foliage will stand with impunity as much frost as a chrysanthemum.

AKEBIA QUINATA is a hardy wooded vine known to everyone. The remarkable thing about it this year is the great freedom with which it has borne fruit. Although this plant is exceedingly common, probably only a few of your readers have seen it in fruit. And there is something very curious about its fruiting. Age of the plant has nothing to do with it. The great majority of plants are absolutely barren, and the fruiting plants have to be propagated by layers or cuttings from fruiting plants, and it matters not whether the plant of the fruiting variety be one foot or ten feet high one year old or fifty years old, it will be apt to bear fruit, whereas the common or barren variety, no matter what its age or



HOLLYHOCKS ON THE GROUNDS OF J. S FAY, ESQ., WOOD'S HOLL, MASS.

size may be, never bears fruit, in this part of the country anyway, no matter how prodigiously it may blossom in spring or what may be the condition of the weather at the time. Some years ago I sent the fruiting variety to the Arnold Arboretum, and at the request of Prof. Sargent endeavored to trace the origin of our own and other fruiting plants that I knew of, and am satisfied they all had been obtained from one old plant in the possession of an old florist in this country, but the origin of his plant I cannot get at. Perfectly independent of this plant, however, fruiting plants have occurred in a few other places in this country and Europe.

About Hollyhocks.

We present herewith a view of a bed of hollyhocks as grown the past season at the summer home of J. S. Fay, Esq., at Wood's Holl, Mass., by his gardener, Mr. M. H. Walsh. Mr. Walsh at our request has favored us with the following practical notes upon the culture of this grand decorative plant:

Hollyhocks intended to flower next summer should be transplanted in October. Seeds sown in May or June will flower in July of the following year. Seeds sown in July or August will flower in August and early in September the year after. Hollyhocks delight in rich, dry soil; the ground should be dug two feet deep and well enriched with barnyard manure. They should not be planted too close together, 3x3 feet at least, and 3x4 feet for handsome plants and good specimen flowers.

About the 1st of December the plants should be protected by laying on the crown of the plants a branch or two sufficient to keep the barnyard litter or leaves from pressing too heavily and causing the crown of the plant to decay; six or eight inches of leaves or litter is sufficient, care being used not to put too much on the crown, putting most around the plant.

In the spring, about the 10th or 15th of March, about half of the covering should be removed, shaking up lightly over the plants the other half. If the covering remains on too long, the plants will become drawn and the shoots weak and liable to suffer from the late spring frosts. During May and June they may receive abundance of water, as the stalks and foliage absorb a great deal of moisture.

Flowers intended for exhibition should be grown one spike or shoot to the plant. When about 4 or 5 feet high the top should be cut off, when fine exhibition flowers are needed. The shoots should be tied to stakes when they attain a height of 18 inches or 2 feet.

Young plants should be set out every two years, although some that we set out and that remained in the same bed 4 years grew remarkably well and attained a height of 8½, and some 9 feet, this year.

This year we had in flower 350 plants of 16 distinct colors (double flowers). Average height, 8½ feet. In August a second lot from seed sown in the open ground August 22, 1890, came into bloom with extra fine double flowers in 18 distinct colors, and attained an average height of 6½ feet.

I have raised two new seedlings which flowered this year, one extra large and white, tinged with yellow in center, the other yellow tinged with purple, remarkable for size, form, and distinctness.

New York Chrysanthemum Show.

The great Madison Square Garden Chrysanthemum Show which is to take place November 2 to 8 is the all absorbing topic among not only the local growers but among prominent experts and fanciers all over the country. The inducements held out by the management of the Garden in the way of premiums at the beginning, were very liberal and all the arrangements were planned on a most generous scale. But the success of the undertaking has now been doubly assured by the announcement that the show will be under the auspices of the New York Florists' Club, and the placing of the entire arrangements in the hands of a committee, a majority of the members of which are the most prominent and active members of the club.

The regular weekly meeting of the committee was held on Tuesday, Sept. 29, Mr. Adolph Ladenburg, chairman. The proof of the complete schedule received its final revision, various matters relating to decorations of the hall, judges, advertising, etc., were thoroughly discussed, and it was confidently predicted by those in a position to know, that this will be the greatest floral exhibition ever held in America.

The premiums offered amount to $6,500, are very comprehensive and are large enough in all the classes to excite a lively competition. In addition to the regular prizes special premiums in the shape o cups are offered by Mrs. Henry Clews Mrs. W. C. Whitney, Mrs. Edward Wins

low, Mrs. Herman Oelrichs, Mrs. J. F. D. Lanier, Mrs. A. Ladenburg, Miss Bird, Mrs. Astor and others for new varieties, seedlings, etc.

Splendid cups are also offered by U. S. Nurseries for cypripediums, by J. H. Taylor for Mme. Cusin roses, and a gold medal by president-elect James Dean of the S. A. F., for model of a greenhouse for amateur use.

The Vanderbilt prize will be awarded on Tuesday for the best collection of novelties introduced during the spring of 1891. Seedlings will be the special attraction for Wednesday; dinner table decorations for Thursday, and mantel decorations for Friday.

A large amount of money has been appropriated for the decoration of the building. A flower table presided over by young ladies in Japanese and Chinese costumes will be one of the special features.

All friends of horticulture who know the discouraging outcome of last spring's effort by the New York Florists' Club, when their superb exhibition at the Lenox Lyceum met with such scant support from the public, will certainly now unite in wishing for them in the coming show the full measure of success which their accomplishments and abilities as well as their plucky persistence in the face of successive discouragements entitles them to, and which the support and backing of such a powerful organization as the Madison Square Garden Co. would seem to make reasonably certain.

The complete schedule of prizes may be had by applying to Mr. Jas. W. Morrisey, Sec'y, Madison Square Garden, or from any of the officers of the New York Florists' Club.

New York.

The cut flower trade is at its worst. Growers, wholesalers and retail men all agree that the market is in a terribly bad way. During the last two weeks in September there were enormous quantities of roses unloaded at from $5 to $10 a thousand. Carnations also have been in excess of the demand. The only thing that seems to sell well as a rule is the American Beauty rose. Prices range at from $5 to $15 per hundred, according to quality. There are a good many fine ones coming in. Slaughter, Connelly, Noe, Nash and Peter Henderson & Co. are all sending exceptionally good specimens, fine flowers, clean foliage and long stems.

A prominent retailer says the only thing he can sell is something which it is impossible to get, cattleyas for instance. Orchids have sold well all summer, cattleyas taking the lead, but there has been no trouble to dispose of good phalænopsis, vanda or odontoglossum sprays. There are some double violets in the market. They bring from 75 cents to $1 per 100. The first chrysanthemums are beginning to appear, half a dozen here and there. The chrysanthemum season promises to be a long one this year.

The New York Florists' Bowling Club held its regular semi-monthly meeting on Monday, Sept. 8, in the afternoon. After a practice game in which Burns covered himself with glory and Manda tried to drive the balls through the end of the building and thus open up a new avenue to Harlem, Asmus meanwhile acting as chief watcher of the chalk line, the meeting settled down to parliamentary business, Theo. Roehrs in the chair and C. B. Weathered secretary. The question of a couple of friendly matches with the Philadelphia boys at the time of the chrysanthemum shows for a trophy to be contributed by the two clubs was earnestly discussed and Messrs. Keller, Burns and Asmus managed to get in some fine parliamentary work which is not laid down in Cushing's Manual. A prerequisite to membership in the bowling club is that the candidate shall be a member in good standing in the New York Florists' Club.

The next meeting of the Florists' Club will be held on Monday, October 12, when the nomination of officers for the ensuing year will be in order. Mr. Wm. Tricker, of Dongan Hills, will read an essay on aquatic plants and is expected to make an interesting exhibit of these flowers at that time.

Both auction houses have been having plant sales every Tuesday and Friday, the great bulk of the stock sold being palms. Prices naturally vary considerably at the various sales, but certain standard varieties which are found at every sale soon come to have an approximate auction value and where quality is equal prices hold pretty near to the average. Araucaria excelsa, 18 in., averages $2.50 to $3 each; kentias, 4 to 5 ft., $5 to $8; Pandanus Veitchii, 1 ft., $1, 2 to 3 ft., $2.50 to $3.50; Ficus elastica, 5 to 6 ft., $3; Phœnix rupicola and reclinata, 3 to 4 ft., 10-inch pots, $3 to $5; Dracæna Lindenii, 2 ft., $3. Specially well grown and perfect specimens are very likely to bring fancy prices. Nothing varies more in prices received for plants of equal age than Latania borbonica. With perfect leaves and short stocky growth it will bring two and sometimes three times as much as a drawn up or imperfect plant. As a rule very small stuff goes badly, specimen plants of suitable size for decorations appearing to be most in demand. Assorted ferns in boxes or baskets from 3 or 4-inch pots average $4 to $5 per 100. Dutch bulbs of most kinds are bringing pretty near their market value. Narcissus Von Sion frequently brings more than market value. Neat little orange trees about 15 inches with fruit on average $1.50 each.

Boston.

The period of inactivity in the cut flower trade still continues, and the weather has been favorable to over-production. The great abundance of carnations, roses and tuberoses gives a harvest to the street fakirs, who can get large quantities of stuff for a song, and who line the curbstones in favored localities as thick as flies. In all the stores quiet reigns, for customers have not returned to town and occasional transient custom is all that comes. Faith in an early improvement is qualified by the reflection that this is election year, and that for the next four weeks politics will have the upper hold. One thing is assured for the coming season, and that is the continued popularity of the American Beauty rose. This rose sells steadily, no matter what may be the fate of other varieties.

It is too early to predict the measure of favor which will be given to the Waban. A fair amount of these are coming in, but they are small-sized as yet, although the color is very fine.

The annual election of officers and standing committees of the Mass. Hort. Society occurred on Saturday, October 3. There was no opposition of any kind manifested toward the regular nominations, which were almost without exception the same as those elected a year ago, so the organization remains the same as last year. This is Mr. Spooner's third election to the office of president and is a well deserved recognition of an administration under which the society has prospered exceedingly.

On the same date occurred the annual fall show of fruits and vegetables. Much favorable comment was passed on the fine appearance of the exhibits, the pears and grapes being especially good. It would be well to consider the advisability of making this the great annual fruit and vegetable show, instead of holding it as heretofore in the middle of September, for with the great majority of varieties the first week in October is nearest to their time of perfection in this latitude. The very few early varieties could be adequately represented at the smaller Saturday shows.

October 3 being prize day for perennial asters, a very attractive exhibition of these autumn favorites was made. The collection shown by George Hollis comprised over 50 species and varieties, and was rich in rare and new kinds, some of which were his seedlings of 1891. One of the latter was the finest thing in the aster line ever shown here. The flowers were of a bright amethyst in color, and measured two inches in diameter. A nice plant of Cattleya chrysotoxa was shown by L. H. Farlow.

Mr. William Plumb, of Riverdale, N. Y., has been in town interviewing the chrysanthemum growers with a view to having Boston well represented at the coming Madison Square Garden exhibition.

Philadelphia.

Business the past week has not had the snap to it that some would like to have seen. Society folks are coming home and many familiar faces are seen on the streets, yet business doesn't pick up like it ought to. Some florists want to blame the English cricketers who have been playing here the past week. The elite have been present in large numbers at the matches as the weather has been fine, but we hardly think it fair to blame Lord Hawke and his cricket team for our troubles. Two or three days of cool weather will stir things up considerably, it will make flowers scarce at any rate, and business generally gets brisk when flowers are scarce, at least we hardly ever knew it to fail.

Those who make a specialty of decorating were very busy the past week. Almost all the large stores on Eighth street and on Chestnut were decorated with palms and greens; on Eighth street it was like a horticultural exhibition both inside and out; the stores were lined with palms and other foliage plants, and we doubt if there are any asters left. Wanamaker's cloak department was profusely decorated, a great deal of smilax being used in addition to the plants which were placed wherever there was an inch of spare room; the effect was very fine.

The Floral Exchange has made quite a difference in the appearance of the store at 618 Chestnut street. The old front has been torn out and a new one entirely of copper and of a very pretty and unique design has taken its place. The center window is in the shape of a large oval, the door also being of similar design; all glass used is bevel edged and as the store is some four steps down from the street with an area in front, the effect from above is very fine. They are also building two more houses at their nursery near Bristol, to accommodate spring bedding stuff which they grow largely for auction.

Mr. Joseph Heacock is to read a paper before the Florists' Club at the next meet-



GERANIUM BORDER AT WASHINGTON PARK, CHICAGO.

ing on the best way to wholesale cut flowers. We hope he will give us some new ideas on this subject, for we believe that if reform is needed anywhere in the business it is right here, and we think the National Society could devote a day to the discussion of this subject with profit.

Pandanus utilis is very scarce in Philadelphia; few, if any, of the large growers have it in stock; last year it was very plenty and the cheapest plant the decorator could use. X.

Toronto.

The exceedingly warm weather has left us for a time, at any rate, and there seems a chance of getting something a little cooler and more seasonable. There have been slight frosts in exposed situations, but in sheltered spots coleus and other tender plants still flourish. Such warm weather so late in September has not been known here before, at least for 50 years. Growers have been grumbling considerably, but are feeling better now.

Mr. J. H. Dunlop's promising new rose "Toronto" will be exhibited at many of the coming chrysanthemum shows, both in the United States and Canada. I had the pleasure of seeing a batch of it on the bench growing side by side with "Perle" and the difference is certainly most marked in favor of the "Toronto."

Chrysanthemum growers are beginning to get a little feverish as the time for the show draws near. The bug is about, and has been doing considerable damage, but still the prospects are good for a fine show.

Now that the great Industrial Exhibition is over, the city has relapsed into its normal condition, and trade is dull for the time being in consequence, and no doubt will be dull until winter begins to assert itself. However, Christmas is coming!

Mr. A. H. Ewing, secretary of the Gardeners' and Florists' Club, mourns the loss of his little daughter, aged 2 years, who was taken from him by death September 28. Mr. Ewing has the sympathy of his many friends in the trade.

Detroit, Mich.

A feature in the horticultural department of the recent Fair and Exposition was the display of palms which filled the entire center of the main hall, occupying a space 75 feet long by 15 or 18 feet wide.

J. Breitmeyer & Sons took first prizes for palms, stove plants, different varieties of cut roses, table decoration and bouquet, the Detroit Floral Co. taking second in each of these classes and first for basket and general design. The design was a fan, the second prize arrangement being a large urn.

John Schneider took first prizes for tuberous begonias, tuberoses, asters, geraniums, etc. (plants in pots), and J. Bogula both first and second for outdoor carpet and flower beds.

The third annual Chrysanthemum and Floral Exhibition will be held at the Detroit Rink November 3 to 7, under the auspices of John Breitmeyer & Sons, Holznagel & Noel, Detroit Floral Co., and Bruno Schroeter. S.

A Long Geranium Border.

The accompanying engraving, giving a view at Washington Park, Chicago, shows a portion of the long border of geraniums that encircles the main display of bedding there.

This border is 1,853 feet long and 5½ feet wide and contains 11,655 plants of the following varieties: Clement Boutard, Ralph, Adam Blumenschein, Rev. Wm. Atkinson, Diamode, Dr. Jacoby, Sapeur Pompier, Pres. Leon Simon, Waddington, Golden Dawn, Ernest Lauth, S. A. Nutt, Double Gen. Grant, Madam Messenger, Candidissima plena, Single Gen. Grant, and Bruant, which was received some years ago under the name of "Clippert".

These geraniums make a brilliant display all summer long and as will be noted Superintendent Kanst has retained many of the kinds that have been discarded by some growers. Many of these could be much improved upon, but though Mr. Kanst has tried a large number of the newer sorts he has found none that averaged up better for bedding than several of the older kinds.

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Coming Exhibitions.

Los Angeles, Cal., Oct. 27-31—Southern California Hort. Society. H. W Kruckeberg, Sec'y.
San Francisco, Oct. 28 30—California State Floral Society. Emory E Smith, Sec'y, 321 Market St.
New York, Nov. 2-8—Madison Square Garden. J. W. Morrisey, Sec'y.
Hartford, Conn., Nov. 3-5—Hartford Co. Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.
Boston, Nov. 3-6—Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall, Tremont Street.
Detroit, Mich., Nov. 3-7—Detroit Florists. Robert Flowerday, Sec'y, 462 John R St.
Providence, R. I., Nov. 4-6—Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.
Wooster, O., Nov. 4-6—Wooster Floral Club. W. A. Porter, Sec'y.
Erie, Pa., Nov. 5-7—Erie Chrysanthemum Club. H. Tong, Sec'y.
Bay City, Mich., Nov. 5-11—Bay County Hort. Society. T. J. Cooper, Sec'y, 811 N Water St.
Louisville, Ky., Nov. 9-14—Louisville Florists. H. Nauz, Sec'y, 582 Fourth Ave.
Pittsburg, Nov. 10-12—Pittsburg and Allegheny Florists' and Gardeners' Club G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.
Newport, R. I., Nov 10-12—Newport Hort. Society. John Butler, Sec'y Berkeley Ave.
Toronto, Ont., Nov. 10-12—Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School Toronto.
New Bedford, Mass., Nov. 10—12—New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.
Washington, D. C., Nov. 10-12—Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St. N. W.
London, Ont., Nov. 10-12—Forest City Florists' and Gardeners' Society. Wm. Gammage, Sec'y, P. O. box 155.
Oshkosh, Wis., Nov. 10-12—Oshkosh Florists' Club. Mrs. G M. Steele, Sec'y.
New Britain, Conn., Nov. 10-12—New Britain Hort. Society.
Philadelphia, Nov. 10-13—Penn. Hort. Society. D. D. L. Parson, Sec'y, Horticultural Hall, Broad St.
Chicago Nov. 10-13—Hort. Society of Chicago. G. L Grant, Sec'y, 54 La Salle St.
Minneapolis, Minn., Nov 10-13—Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.
Baltimore, Nov. 10-13—Gardeners' Club of Baltimore Henry Bauer, Sec'y, 1875 N. Gay St
Indianapolis, Nov. 10-14—Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.
Germantown Pa., Nov. 10-14—Germantown Hort. Society. Thos. E. Meehan, Sec'y.
Worcester, Mass., Nov. 11-12 -Worcester County Hort. Society. E. W. Lincoln, Sec'y, 5 Oak St.
Galt, Ont., Nov. 11-12—Galt Hort. Society. Thos. Vair, Sec'y.
Montreal, Nov. 11-12—Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St
St. Louis, Nov. 11-13—St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania Ave.
Springfield, Mass., Nov. 11-13—Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St.
Utica, N. Y., Nov. 11-13—Utica Florists' Club. J. C Spencer, Sec'y.
Buffalo, Nov. 12-14—Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.
Syracuse, N. Y., Nov. 17-18—Central New York Hort. Society. H. Youell, Sec'y, 225 Beecher St.
New Orleans, La., Nov 17-19—New Orleans Hort. Society. Charles Wise, Sec'y, Third and Prytania Sts.
Milwaukee, Wis., Nov. 17-20—Wisconsin Florists' and Gardeners' Club. C. B. Whitnall, Sec'y, 438 Milwaukee St.
New Haven, Conn., Nov. New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 428 Orange St.
Little Rock, Ark., Nov. - Little Rock Florists' Club. D. M. Tipton, Sec'y
Philadelphia, March 29-April 1—Penn. Hort. Society. D. D L. Parson, Sec'y, Horticultural Hall, Broad St.

HOME-GROWN VS. IMPORTED PALMS.

Certain matters touched upon in an interview with Mr. Robert Craig in another column of this issue are worthy of more than a passing thought. The community of growers about Philadelphia, of which Mr. Craig is a leading spirit, is noted for the fraternal intercourse which exists between individuals in the trade. There more than elsewhere in this country, probably more than anywhere else in the world, do the members of the craft compare notes, exchange opinions and consult together with social cordiality as to ways and means, methods of culture and business management.

Naturally under such conditions they are intelligent and their opinions carefully formed, and when a man of acknowledged broad vision such as Mr. Craig, speaks as the mouthpiece of the Philadelphia trade, his words carry conviction, and we cannot feel but that he knows what he is talking about.

His argument for the encouragement of home industry is based upon that best of all foundations, superior goods. The fable of the goose that laid the golden egg has on more than one occasion been fully exemplified and its logical results attained by the shortsightedness and folly of the European trade, who have too often for their own good looked upon America as a dumping-ground for inferior productions.

At the outset, through our inexperience, goods which would go a-begging in Europe may be easily forced upon us, but it is not long before we begin to know better. In their contemplation of our crudeness they overlook our ambition and forget that we do not propose to stand still. The best is none too good for us, and in the long run we find a way to get it.

If our brethren in Philadelphia or elsewhere succeed in proving to us (and there is no good reason why they should not) that home-grown palms and other plants can be produced at equal prices and in better quality than the stuff usually imported, they will be sure to receive substantial support from American buyers, and our friends across the water will find that they must either give us better goods or take the consequences.

AN AMERICAN CARNATION SOCIETY.

A meeting of interested carnation growers has been called to attend a meeting to be held in Philadelphia October 15 at 2 p. m., the object being to organize a society as above. It is to be hoped that the foundation will be laid broad and strong, and that no effort will be spared to make the society a worthy custodian of the interests of this flower which has so rapidly gained in popularity during the last few years and which is unquestionably destined to make even more rapid progress in the future.

LATE ADVICES from Holland indicate that all main stocks of fall bulbs are selling out rapidly, and that there is no surplus to be expected which will have to be slaughtered.

And Still Another Carnation Contest

At the Madison Square Garden Chrysanthemum Show, which is to be held under the auspices of the New York Florist's Club November 2 to 8 inclusive, a silver cup, value $25, is offered for best seedling carnation, not less than 12 blooms, never before exhibited. Verily the Divine Flower is forging ahead.

E. L.

Chicago.

The annual meeting of the Horticultural Society of Chicago, held last Saturday evening, was a most interesting one. Officers for the ensuing year were elected as follows: Wm. H. Chadwick, Pres.; F. C. Vierling, 1st Vice-Pres.; E. G. Uihlein, 2nd Vice-Pres.; J. A. Pettigrew, 3rd Vice-Pres.; G. L. Grant, Sec'y; H. H. Hindshaw, Ass't Sec'y; Gen. A. L. Chetlain, Treas.; Directors, J. T. Anthony, Dr. Wm. E. Clarke, George Gardner, C. R. Williams, Jonathan Periam, J. C. Vaughan.

After the election and the consideration and adoption of by-laws, Mr. John Thorpe read a paper on the possibilities of floriculture at the World's Fair which appears elsewhere in this issue, and Mr. Wm. H. Chadwick read a very interesting and valuable essay on exotic orchids which will appear in full in these columns next week. Both essays were received with applause and the thanks of the society tendered to the essayists. Mr. Thorpe spoke of Mr. Chadwick's essay as the most valuable paper on orchids he had ever had the pleasure of hearing. Chief Samuels of the Horticultural Department of the World's Fair, was present and in response to a call by the chairman made a short address regarding the work of his department. The meeting did not adjourn until 11 p. m. and the interest was maintained to the end. The report of the executive committee indicated that the coming exhibition will be far in advance of any previous one. The local press is taking great interest in the work of the society and the Sunday papers gave very full accounts of the proceedings. The society is now fully organized and the members feel that it is destined to accomplish much in the advancement of horticulture in this city and vicinity.

Among recent visitors to the city were Mr. W. W. Hall of S. J. Burnham & Co., New York; Mr. M. A. Hunt, Terre Haute, Ind.; Mr. James Semple, Bellevue, Pa.

WORLD'S FAIR NOTES.

It is feared that the Music Hall will be placed on the Island, and it is also said there may be a farm on the Island (an ostrich farm). It is hoped this is not true, but the demand for space is such that with the 700 acres at disposal every department will be crowded.

Applications for space in the whole of the Horticultural Department are received daily and as soon as the new classification is issued, which it is hoped will be within a week, then the applications will be still more numerous.

Chief of Floriculture Thorpe had put on board for the Royal Commission on the Majestic October 7, at New York, a very handsome floral piece by Siebrecht & Wadley. The commissioners were Sir H. Wood, H. Dredge, Emil Meyer, Herr Wermuth and T. McCormick.

OBITUARY.

ANTOINE LEVET, the well-known French rosarian, died at his home in Lyon, France, August 21, aged 74 years.

He was the originator of the Perle des Jardins, and if his work had ended with the introduction of this rose alone the rose growers of America would still have been under lasting obligations to him, but he also gave us Paul Neyron, F. Michelon, Reine Marie Henriette, and a host of others.

Ellwanger, in his list of 32 rosarians who have sent out two or more sorts of good repute, places Antoine Levet fourth in the list, which indicates the value of his introductions.

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IN THE WEST!
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GROWERS OF CUT FLOWERS.
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WASHINGTON, D. C.
Mention American Florist.

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WHOLESALE
FLORISTS,
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A complete line of Wire Designs.

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F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.
Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.
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CUT SMILAX
At Summer prices—15 cents. Quality first class. Shipped on shortest notice. Telephone No. 15.
JOS. E. BONSALL, SALEM, OHIO

Wholesale Markets.

Cut Flowers.

BOSTON, Oct. 5.

Roses, Gontier	1.00
" Niphetos	2.00 @ 3.00
" Perle, Mermet	2.00 @ 4.00
" Bride	3.00 @ 5.00
" La France	4.00 @ 6.00
" Waban	12.00
" American Beauties	15.00
Carnations	.50 @ .75
Lily of the Valley	4.00
Asters	.50
Smilax	12.50
Adiantums	1.00
Asparagus	50.00
Tuberoses	.50

NEW YORK, Oct. 5.

Roses, Bon Silenes	.50 @ 1.00
" Gontiers	1.00
" Perles, Niphetos	1.00 @ 3.00
" Souvs, Woottons	1.00@ 2.00
" Mermets, Brides	2.00@ 4.00
" Cusins Watteviles, Hostes	2.00
" La France, Albany	2.00 @ 5.00
" Beauties	3.00 @ 20.00
Valley	3.00 @ 6.00
Carnations, long	.75 @ 1.00
Smilax	10.00 @ 15.00
Adiantums	.50 @ .75

PHILADELPHIA, Oct. 5.

Roses, Beauties	8.00 @ 15.00
" La France, Albany	3.00
" Mermets, Brides	3.00
" Perles, Niphetos	1.00 @ 2.00
" Gontiers	1.00
" Marie Guillots	2.00
" Pierre Guillots	3.00 @ 4.00
Carnations, long	.75 @ 1.00
Carnations, short	.50
Valley	5.00
Asters	.75@ 1.00
Smilax	15.00 @ 20.00
Adiantums	1.00

CHICAGO, Oct. 6.

Roses, Am. Beauties	10.00 @ 12.50
" Wabans, Mermets	3.00 @ 4.00
" La France, Albany	3.00 @ 4.00
" Brides	3.00 @ 4.00
" Wootton	2.00 @ 4.00
" Perle, Niphetos	2.00 @ 3.00
" Gontiers	2.00 @ 2.50
Carnations, long	1.00 @ 1.50
Carnations, short	.50
Asters	.50
Smilax	15.00
Adiantums	1.00

Business improving.

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.
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N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
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Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
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The Western Trade Solicited.
Write or Telegraph.
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77 7th Street S. - - Minneapolis, Minn.
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Edward C. Horan,
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Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
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LILY OF THE VALLEY, and the Choicest ROSES for the fall and winter season.

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13th and Chestnut Sts.,
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BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
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CUT—100,000—BLOOMS.
Cosmos and Chrysanthemums,
READY NOW.
COSMOS, bunches of 50 blooms, long stems, buds and foliage, $3.00 per doz. bunches.
CHRYSANTHEMUMS, long stems, good foliage, flowers from 2 to 4-inches across, $2.00 to $5.00 per hundred.
J. L. LOOSE, Alexandria, Va.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

Boston.

James C. Elms, trustee of M. B. Faxon, assigned, reports his estimate as follows:

Liabilities	$16,684.13
Assets, bills receivable (good)	$1,183.34
Assets, bills receivable (doubtful)	217.00
Assets, stock	4,054.71
" fixtures	400.00
" cash	463.81
Total assets	$6,318.86

Less cost of administration.

Mr. Faxon offers 36 cents on the dollar, cash, provided all creditors accept.

It will be noticed that good will and lists of names of customers are not included in the assets.

THE CENSUS BULLETIN on seed farms is out and can be had of the Department of the Interior at Washington. Experts will question the value of the data in many of the tables. For instance, the reported acreage planted to beans in Illinois is 2,860; in New York, 4,600; in Michigan, 2,600.

WASHINGTON, D. C.—There appears to be a good opening here for a good seed store, as there is comparatively no place where flower seeds can be bought, whatever seed trade is done here being confined to agricultural establishments only.

MR. S. F. LEONARD, of Chicago, has leased the new 7-story corner building at 153 & 155 West Randolph street; he will utilize three floors for his business and sub-let the remainder.

MR. ALEX FORBES, of P. Henderson & Co., is slowly recovering from a severe attack of typhoid fever.

VISITED CHICAGO: E. M. Wood, Chas. N. Page.

News Notes.

DELTA, COLO.—H. A. Parcells is removing his greenhouses from Glenwood Springs to this place.

BALTIMORE.—William J. Halliday, of 304 W. Madison street, has opened a new store at 316 North Charles street.

NORTHAMPTON, MASS.—Thomas W. Weathered's Sons are building and heating a range of new houses, comprising about 7,000 feet of glass, for I. J. Allen.

CINCINNATI.—When the new flower market is completed the Cincinnati Florists' Society will have a very convenient and suitable place of meeting. Until that time the meetings will continue to be held at 134 Walnut street.

SOUTHAMPTON, N. Y.—Mr. William F. Halsey, formerly of Water Mill, N. Y., has located here, and has built three new greenhouses. He has taken a partner, and the business will be carried on under the firm name of Halsey & Edwards.

MINNEAPOLIS, MINN.—Mr. Wm. Desmond having been committed to the Insane Asylum, Mr. Gust Malmquist has been elected to succeed him as president of the Minneapolis Florist Club. For the recent industrial parade Mr. R. J. Mendenhall had a greenhouse built on a truck and filled it with plants and flowers. It proved a very taking feature of the great procession.

PATERSON, N. J.—Alderman H. E. Chitty, the florist, who is chairman of the committee on parks, recently made a report to the council severely criticising the management of the city parks, and recommending "that no further appropriations be made for our parks until the services of a practical superintendent are secured for their supervision and management."

SPRINGFIELD, MASS.—At the meeting of the Amateur Hort. Society, Sept. 18, Mr. Robert Farquhar of Boston, gave a pleasant and interesting talk on Holland bulbs and their culture. There was a large attendance and although the evening was quite warm the meeting was prolonged beyond the usual time in order to give all an opportunity to take part in the discussion and ask questions. Mr. Farquhar was made an honorary member of the society.

GLOUCESTER, MASS.—The annual exhibition of the Cape Ann Hort. Society was held on September 25 and 26. It was well attended, and was a success in every way. A magnificent show of ferns and foliage plants was made by H. W. Clark, gardener to Col. Jonas H. French. Mr. George Todd made a fine show of tuberous rooted begonias. Notable displays of plants and cut flowers were made by S. Curtis, Jr., Mrs. A. M. Lane, Mrs. S. W. Oakes, Mrs. J. H. French, George Todd, George F. Thayer, and others. The show of fruit, especially pears, was very complete.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a gardener and florist. First-class references. Address
J J, care American Florist, Chicago.

SITUATION WANTED—By a young florist well acquainted in the business; good design worker. J. WOLF, 170 Broughton St., Savannah, Ga.

SITUATION WANTED—To put up steam or water heating apparatus in greenhouses. Or will work by contract. Thoroughly experienced. Address CHAS. EICHENBAUM, 742 N. Ashland Ave., Chicago.

SITUATION WANTED—By a young man with ten years' experience in the growing of palms, ferns, orchids, roses, and stove and greenhouse plants. Address B, Tuckahoe, N. Y., P. O. box 42.

SITUATION WANTED—As gardener or general greenhouse work. Good knowledge of dahlia and verbena propagating, etc. Age 27; 9 years' experience. Good references.
Box 44, Barnard's Crossing, N. Y.

SITUATION WANTED—As florist or nurseryman. Can do all kinds of nursery work in all its branches, such as budding and grafting; able to take charge of men; 20 years' experience. Address
H M, care American Florist, Chicago.

SITUATION WANTED—By a thorough practical florist and gardener; fully competent to take charge of a first-class private or commercial place. Roses, carnations and violets a specialty. Age 36. Best references. Address
G W, care News Co.'s Store, Elizabeth, N. J.

SITUATION WANTED—By December 1st by party well posted in all branches of the horticultural business, both in the commercial and private way. References as to ability can be furnished. Have successfully followed the business for 14 years. Anyone wanting a capable man, please address
W, care American Florist, Chicago.

WANTED—A good gardener who is also something of a florist. Address
C. T. BRIGGS, Avoca, Iowa.

WANTED—About fifty sashes 3x6, new or second-hand. Give lowest prices.
W. MILLER, box 271, Groton, Mass.

WANTED—To lease or buy greenhouses, dwelling and land, near good market. Address
H. WISE, Mt. Prospect Ave., Newark, N. J.

WANTED—Assistant in commercial place of about 4,000 ft. of glass; one who understands growing general greenhouse stock; or will lease to good man.
J. R. SHAVER, Charleston, W. Va.

WANTED—Assistant in commercial florist place; young man of neat address with some knowledge of cut flower work decoration and bedding out. State references, wages expected and nationality. C. A. DAHL & CO., Atlanta, Ga.

WANTED—A good, reliable, sober, young man, well up in rose growing, and who has a good general knowledge of greenhouse work, to take a position in Park Ridge, Ill. Apply at once, with references, to ERNST WEINHOEBER & CO.,
417 Elm Street, Chicago.

WANTED—To correspond with reliable party who will contract for my cut flowers from 1,500 roses, 2 000 carnation, 3,500 violets, 1,000 smilax, primulas, etc., 500 chrysanthemums. All plants in a healthy condition. Address JOHN BEECHLER,
Woodville, Allegheny Co., Pa.

FOR SALE—Only greenhouse in growing town of 5,000 inhabitants, doing a good business. Best of reasons given. Address
MRS. E. E. UNLAND, Beardstown, Ill.

FOR RENT—One greenhouse with stock of general florists stuff, heated by hot water; has only been built 2 years. 23 miles from Chicago, on Wabash R. R. Will rent house without stock if desired. Address WM SCHARF, Orland, Ill.

WANTED.

An offer of 50 plants of Daphne alba odorata, in not over 5-inch pots.

C. M. A., BROOKLINE, MASS.

Florist Business for Sale Cheap.

On account of ill health, two new houses 109 feet long; 4,000 violet clumps fine condition; good stock growing smilax; carnations, roses, etc.; the whole for $1,500—a good man can make money. Address for particulars, J. C. MAKIN, Falls Road, W. Phila.

TO GARDENERS AND FLORISTS.

J. C. GOODING, the well-known rose grower, wishes to retire, and will dispose of his greenhouses, all well arranged, heated by steam, about 16,000 feet of glass, dwelling and barn; lot 160x350; good location, within city limits. Cash, half down. Address **1216 Euclid Ave., Cleveland, O.**

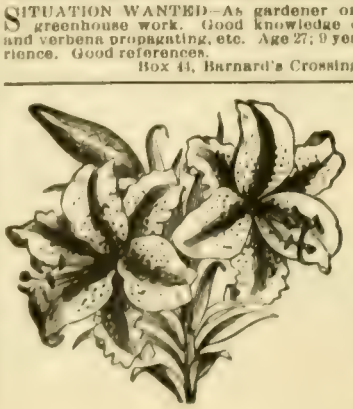
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A first-class business in a live town near St. Paul. Houses well stocked with everything needed for the coming season. Must be sold through sudden illness. Proof, profits last season over $1,000. Two-thirds purchase money can remain on long time at 6 per cent. Address X, care American Florist.

SOUTH.

FRUIT FARM FOR CITY PROPERTY.

A fine 20 acre fruit farm at Terry, Miss., 1,500 bearing peach trees. Good wire fence. Write me with offers. **GEO. GOULD, Villa Ridge, Ill.**



NOW READY.

Our DUTCH BULBS are now in, comprising a choice stock of Hyacinths, Tulips, Narcissus, Crocus, Etc.

ALSO ALL FORCING BULBS.

Fine Roman Hyacinths, at $20 per 1000. Lily Harrisii and Candidum, Freesia, Forcing Tulips, and Narcissus.

THE JAMES KING SEED CO.,
98 Lake St., CHICAGO.

Send for catalogue if not received already.

WHY You Should Grow Mushrooms.
Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.
During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.
Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or outhouses, in the open field or in mushroom houses.

HOW You Should Grow Mushrooms.



First get spawn that will grow. It must be fresh, well spawned, and in good condition. **Gardiner's Celebrated English Mushroom Spawn** is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, **"Mushrooms for the Million,"** Mailed free. **Falconer's "Mushrooms and How to Grow Them."** Published at $1.50. (Gardiner's price $1.35 post free.) **Robinson's "Mushroom Culture,"** 50 cts. postpaid.

GARDINER'S ENGLISH MUSHROOM SPAWN.

John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, $8.00 per 100 lbs. Special rates to large growers. Address all correspondence to **21 North Thirteenth Street,** Philadelphia, Pa.

JOHN GARDINER & CO.

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Supply the trade with all

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Address with business card

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Mention American Florist.

JAPANESE PLANTS

Trees, Shrubs, Bulbs, Seeds, Etc.

SEND IN YOUR ORDERS NOW, for

Lilium Auratum, Rubrum, Longiflorum, Etc.

Cycas Revoluta at **greatly reduced prices.**

Camellias in all colors, **MAGNOLIAS, TREE PAEONIES, MAPLES, Etc.**

Give us a trial, we can supply you with all Plants and Seeds, and can pack safely to any part of the world.

F. GONZALEZ & CO.,

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G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN. CONN.

DISSOLUTION.

The firm of J. H. Campbell & Sons is dissolved by mutual consent, Oct. 1st. All persons having claims will please present the same for settlement at 3501 Germantown Avenue, where the business will be continued by Mr Geo. E Campbell and Mr. Isaac Kennedy formerly foreman for Mr. Root. Scott.

J. H. CAMPBELL
CHAS. H. CAMPBELL.
GEO. E. CAMPBELL.

Phila., Oct. 1, 1891.

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DUTCH HYACINTHS, TULIPS, NARCISSUS, CROCUS, ETC. now in stock.

THE BEST ARE THE CHEAPEST.

A good bulb requires no more space, heat or care than a poor one; our aim is to merit your confidence and trade by supplying only the best. **TRY US.**

	Per 100	Per 1000
MIXED HYACINTHS, Single or Double, equal quantities Red, White and Blue	$ 2 50	$22.50
MIXED TULIPS, First-class, Single or Double	1 00	7.50
" " Superfine, Single or Double	1.25	10.00
" " Best NAMED SORTS, Single or Double. **Solid colors, special for Florists' use**	2 00	17.50
MIXED CROCUS, all colors	.25	2.00
FREESIA REFRACTA ALBA (own growth)	1 00	7.50

25 Bulbs at 100 price; 250 Bulbs at 1000 price. For terms of Credit, etc., see our Bulb List free to all.

FINEST BERLIN LILY OF THE VALLEY PIPS, ready in November, $10 per 100. Write for Special estimates on your wants. **OUR FACILITIES ARE UNEXCELLED.**

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HYACINTHS, TULIPS, CROCUS.

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VEGETABLE AND FLOWER SEEDS for Fall Sowing. ILLUSTRATED CATALOGUES FREE.

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Fine lot ***LIL. WASHINGTON,*** $8 per 100. ***PAMPAS PLUMES,*** new crop, first quality, 24–30-in., $3.00 per 100; 30–40-inch, $4.00 per 100. ***MUSA ENSETE,*** 18-in. high, $2.50 per doz.; $15.00 per 100. ***JAPAN BULBS,*** begin to ship Oct. 1st. ***FREESIAS, CHINESE NARCISSUS,*** Australian Palm Seeds.

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MEXICAN ORCHIDS, CACTUS SEEDS.

Our **MR. CARLOS LIEBERT** will remain at his present address, 627 De Kalb Av., Brooklyn, N. Y., eight weeks longer, and will be pleased to receive orders for any of the above stock.

We make shipments direct from our Mexican address, and all our stock is **NEWLY COLLECTED** and in **FINE CONDITION. FOR PRICES** and **PARTICULARS** write him at above address.

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The true Hamburg and Berlin pips, extra strong, 3 years old, packed in cases of 2000 and 2500; per 1000, $9; per 10,000, $80, free on board cars at New York.

SPECIAL QUOTATIONS ON LARGER QUANTITIES.

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CRINUM AMABILE retails for $2.50 to $3 00 each; my price, 75 cts. each. 300 on hand. To trade only.

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Fresh English Spawn, per lb. 15c.; 10 lbs. $1.20; 100 lbs. $8.00.

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PRICE, $2.00.

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The alternantheras, both red and yellow varieties, in the formal beds at the National Cemetery are unequaled in gorgeous coloring this season. If "ribbon bedding" always turned out as well as in this instance, much of the criticism against it would be disarmed.

The rose beds are a mass of bloom. One of the best varieties here is Mme. Lambard. It is particularly good this year.

Canna Geoffrey St. Hilaire is simply grand. Its massive dark foliage and showy spikes of orange vermillion flowers loom up magnificently in the ornamental grounds.

A new form of bedding nasturtium, with pale green, almost golden foliage, is very effective in a low bed.

There are many handsome evergreen trees about the old Lee mansion, prominent among which are the beautiful Deodar cedars and Pinus excelsa, and there is a fine specimen of Retinospora filifera pendula aurea.

Never Ate Orchids.

An Ohio daily paper is having lots of fun at the expense of a certain judge who made a political speech lately. He talked about the tariff, and said that the things the rich men use were put on the free list, while the things the poor men use were placed on the dutiable list. "There's attar of roses, there's bird's nests, and then there's orchids." He said: "Orchids! How many people eat orchids? I don't believe there is a person in this audience who ever ate an orchid!" exclaimed the learned judge. And right here it is not out of place to say that the audience fully agreed with him. We do not believe there was a person in that audience who ever ate an orchid.

THE FAKIR.—Mr. W. A. Lee, Burlington, Vt., calls our attention to the fact that the city dealers are not the only ones injured by the fakirs and says that frequently when he asks a proper price for a spike of tuberose blossoms for instance the customer will exclaim, "why, the boys sell them on the streets in New York for 5 cents!" So it would seem that the influence the fakir exerts in the demoralization of prices is not confined to his immediate field of operations.

Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Ben Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000.

TEA ROSES, 30 sorts, from open ground, extra strong $4 00 per 100

HERMOSA, strong pla ts, $3 00 per 100.

HYBRID PERPETUAL, sorts including JACKS, 2 years old, extra strong, $10.00 per 100.

Carnations.

Hinze's White, Silver Spray, Fred Johnson, Orient, Portia, the Century, Mrs. Cleveland and Grace Wilder.

1st size, $8 00 per 100; $70 00 per 1000; 2d size, $6 00 per 100; $50.00 per 1000.

FRED CREIGHTON, a fine pink $10.00 per 100.

Violets.

Marie Louise, 1st size, $8 00 per 100; $75 00 per 1000; 2d size, $6 00 per 100, $55 00 per 1000; 3d size, $5.00 per 100; $45 00 per 1000.

Our carnations and violets are strong, full grown plants and perfectly healthy, ready for delivery September 15.

SMILAX. Good strong plants, $2.00 per 100; $20 00 per 1,000.

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FISHKILL, N. Y.
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Tells the whole story for the **FALL of 1891.** Bulbs, Plants, Flower Seeds and Florists' Supplies. New Rose Madam Pierre Guillot, and twenty others. Read our Book for Florists. New Chrysanthemum, Waban and all the rest. Read our Book for Florists. New Canna Madam Crozy, doz. $7.50. **ALL Bulbs** for florists; by **ALL** we mean **ALL** and in **QUANTITY.** International **PANSY** Seed—new crop. We ask careful examination of this "Book for Florists."

J. C. VAUGHAN, box 688, CHICAGO. GREENHOUSES: Western Springs.

10,000 ROSE PLANTS.

Strong healthy stock in fine condition for planting, in 3-in. pots, $8 per 100; in 4-in. $10 per 100.

MERMETS, NIPHETOS, WATTEVILLE, LA FRANCE AND JACQS.

Cut Flowers. Smilax and Adiantum. 25,000 field grown Carnations. Hinze's White, Lamborn, Anna Webb and Portia, $8 per 100. New Scarlet Emily Pierson. $15 per 100. 25,000 Neapolitan Violets, strong clumps, ready in Sept., $8 per 100. A. N. PIERSON, Cromwell, Conn.

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Strong plants for immediate planting, price $20 00 per hundred.

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$2 per dozen; $15 per 100.

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Surplus Stock for Sale Cheap.

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CARNATIONS: Field grown; leading varieties.
VIOLETS: Marie Louise, from 3 and 4-in. pots.
PRICES ON APPLICATION.

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$15 per 100; $120 per 1000.

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The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.

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The largest stock in the west, at $5.00 per 100 to $1 00, $2 00 to $10.00 each. Cycas revoluta, 50c to $5.00 and $15 00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII, DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots, strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracaenas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

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2½-inch pots, extra strong, $3 per 100.

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Dracæna fragrans, 5-in fit for 7 in pots	$10 00
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Areca lutescens	$8.00 per 100
Latania borbonica	5.00 "
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Platycodon grandiflorum, white and blue; Seed just gathered. Pkt. 50 cts.

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New and Standard fruits; rare and beautiful Trees, Shrubs, Evergreens, etc. Catalogues on application.

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A fine consignment of this beautiful winter-blooming Cattleya just to hand. Plants have arrived in excellent condition. Also an immense stock of well established Orchids at very low prices. Write for price list.

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of the following varieties: **Fred Creighton, Hinze's White, Jeannette, Peter Henderson and Century.** 1st size $10, 2nd size $8 per 100.

5000 dbl. white and dbl. pink Bouvardia, $10 per 100.

10,000 Smilax, $3.00 per 100; $25 00 per 1000.

On receipt of 10 cts. in stamps for each plant, I will send samples of above by express.

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HINZE'S WHITE,

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Large, healthy plants, free from disease.

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For Fall Planting.	Per 100	Per 1000
PANSIES	$1.00	$ 5 00
SMILAX, 2½ inch pots	1.50	12.00
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Per 100, $1.50; per 100 $12.50.

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My whole plant and attention will be devoted to getting out strictly first-class cuttings of all the new and standard sorts of Carnations at a moderate figure. Large stock of

Lizzie McGowan.

Have also made arrangements to have grown for me a variety of other cuttings. I will make it to your interest to give me your orders. Lists on application.

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Splendid plants for winter flowering now ready to ship, of my finest new Seedling varieties.

GOLDEN GATE, pure golden yellow; by far the best yet produced.

WM. F. DREER, rose pink, or light carmine, magnificent; large fringed flower.

CONSTANCY, bright scarlet, of the same shade but larger than PORTIA.

POMONA, very dark crimson, of dwarf habit, strong growing, free flowering; the finest of its color.

STRONG PLANTS OF ALL THE ABOVE VARIETIES AT $10.00 PER 100.

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Of over forty leading varieties. Send for Price list.

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ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

DRACAENA TERMINALIS,

very fine, 4 and 5-inch pots.

LATANIA BORBONICA,

and many other varieties, in 4, 5 and 6-inch pots.

Prices given on application.

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PANSIES OF THE BEST STRAINS.

$5 per 1000 by Express; 75 cts. per 100 by Mail. CASH WITH ORDER.

NOTE.—That my Specialties for the coming season are best varieties of

CARNATIONS, COLEUS, GERANIUMS. FIRST-CLASS ROOTED CUTTINGS.

Descriptive Trade List ready in November. Send for it.

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200,000 plants of the Jennings strain now ready, 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies A No. 1 in every respect. Large flowering, fine colors and fine stocky plants. Seed 50 cts. and $1.00 per packet.

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From first-class seed, showing bud and bloom, per 100, 50c.; per 1000, $3.00.

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American Pomological Society.

At the recent meeting of the American Pomological Society at Washington, Messrs. Ellwanger & Barry, Rochester, N. Y., exhibited a collection of 116 varieties of pears; the state of Virginia displayed 350 plates of fruit, among which there were 163 varieties of apples, and Wisconsin, Indiana, Massachusetts, Missouri, Maryland, and Florida each made large exhibits of fruit. Specimen fruits were sent from California, Kentucky, Tennessee, Mississippi, and New Jersey.

Officers for the ensuing term were elected as follows: P. J. Berckmans, Augusta, Ga., president (re-elected); C. L. Watrous, Des Moines, Ia., vice-president; G. C. Brackett, Lawrence, Kan., secretary; Benj. G. Smith, Cambridge, Mass., treasurer.

Mr. J. M. Samuels, Chief of the Horticultural Department of the World's Fair, was present, and conferred with the society regarding the pomological display at the great exposition. He was very cordially received, and was promised the influence and hearty support of the society toward making the pomological division what it should be.

Invitation was extended to the society by the World's Fair management, through Mr. Samuels, to meet in Chicago in 1893. This was referred to a committee, as is the usual custom. A majority of the committee expressed themselves as favorable to meeting in Chicago.

If you are a grower of plants or cut flowers, then you are a manufacturer just as much as one who makes sewing machines or wash tubs. Any manufacturer of these last named articles knows exactly what it costs him to produce these ready for the market, and manufacturers of plants and flowers can be equally as well posted if they will take an equal amount of trouble to find out.

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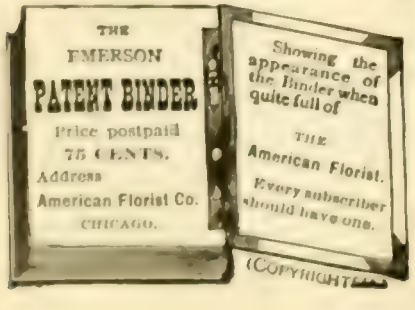
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1000 DBL. WHITE PRIMULAS, 2½-in. pots, ready for shifting, at $3 00 per 100.
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SPECIAL FALL OFFER.

	25 or 50 at 100 rate.	Per 100
Oreodoxa Regia, 3 ft., character leaves, fine		$25.00
Sabal Bluckburn, 3–4 leaves, 2-inch pots		8.00
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Alsophila Aspera (tree fern), trunk 4–6-in. each, $1; larger, $2.		
Davallia Stricta, fine cutting fern, strong, 3-inch pots		8.00
Onychium Japonicum, fine cutting fern, strong, 3-inch pots		8.00
Dracæna terminalis rosea, 9–12 inches, clean		8.50
Coffea Arabica, 15–20 inches, pot grown		25.00
" " 8–12 inches, pot grown		12.50
Rose Woodland Margaret, very strong		12.00
" Prairie Queen, strong, 2 year		10.00
Thevetia Tenrifolia, yellow flowers resembling fine oleander, fine		12.00
Epidendrum Venosum, (Butterfly orchid), good clumps		7.50
Tillandsia Utriculata, (Air-plant), medium size		3.50

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Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
2nd size	14.00	"	115.00	"
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4th size	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000).	2.50	"	23.00	"

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Hillegom, = = Holland.

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Japan Snowball.

We believe that our 1 and 2 year old plants are superior to those a year older offered by others.

	Per 10	Per 100	Per 1000
Hydrangea pan. grand. 1 year, 18 to 24 inches	$.75	$ 6 00	$50.00
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JAPAN SNOWBALL.—Viburnum plicatum.

We have the only large stock of this in the world. Illustrated circulars, with your name and address printed on them for distribution among your customers, furnished at a low price. Send for sample circular and prices of them.

	Per 10	Per 100
Japan Snowball, 12 to 18 inches	$ 2 00	$18 00
" " 2½ to 3 feet	2 50	25 00
" " 4 to 5 feet	3 00	30.00

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Myrica rubra. Myrica rubra. Myrica rubra.

OR JAPANESE BLACKBERRY TREE.

Of this **beautiful fruit-bearing tree,** we have received a quantity of Seed, and we offer same at a **greatly reduced price.**

FELIX GONZALEZ & CO., 303 to 312 Wayne St., San Francisco, Cal.

DON'T YOU FORGET IT!

THE SNOWFLAKE DAISIES treated as Violets, mean abundance of beautiful white flowers all winter; thousands of plants ready, 3-inch, in bud and bloom, $5 00 per 100; $40 00 per 1000. 2-inch, in bud and bloom, $3 00 per 100; $25 00 per 1000. Large clumps, from open ground, $4 00 per 100. Rooted cuttings $2 00 per 100.

4000 Bouvardias, 2-inch and rose pots, $2.00 per 100; double and single white, pink and scarlet.

2000 Var. Vincas, 5 to 10 vines, 4 ft., field grown, large clumps, $6 00 per 100; 1000 3 to 5 vines, 3 feet, good clumps, $4 00 per 100.

1000 Eulalia Zebrina, 5 to 10 canes, very handsome, large clumps, $12 00 per 100.

500 Eulalia, 3 to 5 canes, good clumps, $8 per 100.

8000 Field-grown 'Mums, all styles and colors, plants stocky and in fine shape, $8 00 per 100. Also stock plants of Geraniums, Marguerites, Feverfew, Ageratum, &c., open ground, large clumps, $6 00 per 100. Please mention this paper.

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HYDRANGEA THOS. HOGG

Strong two year old Plants for Forcing,

$10.00 per 100.

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Hardy Perennials

A SPECIALTY.

GOOS & KOENEMANN,
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PRICE LIST ON APPLICATION.

WE OFFER:

	Per 100	Per 1000
Primula Sieboldi, only best vars., our selection, strong plants	$7.00	
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AT $2.65 PER 100 LBS.

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CASH WITH ORDER.



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HOW CAN I make the florists write about printing Catalogues NOW instead of in January? If they could see me weep big salty tears about those I *can't* do THEN, but which I could fairly jump on NOW for less money, may be they would have pity! I want to print Catalogues right away—I am hungry to do good Catalogues, better than ever, pretty, and all that. But in December and January I'll be stuck-up and proud, and probably won't care a darn for any more orders, 'cause I can't work more'n 27 hours a day. *Do* come along now—I am yearning for you! Drop a letter in the slot—J. Horace McFarland, Harrisburg, Pa.—and watch a Catalogue come flying back!



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Used with warm water it is quicker in its action than when cold is used.

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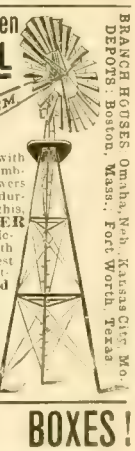
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Gladiators for the Poor.

Yesterday the Moderation Society at Five Points for the second time this year distributed flowers to the poor people of the Five Points district. The Society's big red wagon, loaded with gladiators, apple blossoms, striped tulips and spotless lilies, drove up by the music stand at 3 o'clock and Mr. Sylvanus Lyons, vice president of the society, began scattering his treasures to the immense crowd of men, women and children that swarmed from every hovel and tenement house round about.

The above item, clipped from a New York daily paper of Sept. 26, is sent us by Mr. J. Kadletz of Dongan Hills, N. Y., who comments as follows: "I feel sympathy for the poor who had gladiators thrust at them; but no doubt it was very pleasant to get apple blossoms and striped tulips on the 26th of September."

FIRE INSURANCE.—In answer to the query by R. A., only a few companies accept risks on greenhouses and their contents, and when such risks are accepted the rate varies for each individual risk, according as it is believed to be more or less hazardous. The rate named (1½ % on the greenhouses and 2% on contents) seems high, but probably no lower rate could be obtained as matters are now conducted by the companies. On page 994 of volume 6, our issue for July 20 (No. 165), we printed a list of the companies that take risks on greenhouses.

THE GREENHOUSES of the B. & O. R. R. at Connellsville, O., sent out the past season 18,000 bedding plants which were used to beautify the grounds around the various stations on this line. The attractiveness of this route has been very considerably increased by this decoration of station grounds and the road is entitled to much credit. The greenhouses are in charge of Mr. Neil Queen.

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And to prove this, we give below a table showing number in Crate and **WEIGHT** of same, which speaks for itself:

Size.	No. in Crate.	Weight.
1¾-inch	3,000	250 lbs.
2 "	2,400	250 "
2¼ "	1,750	250 "
2½ "	1,450	250 "
3 "	1,280	350 "
3½ "	800	350 "
4 "	600	350 "

It will be seen at a glance, that our pots are one-third lighter than formerly, and yet we claim that owing to the superior quality of our clay and improved machinery, they are stronger than any pot in the market, and we frankly ask you to make the test. ☞ SEND FOR PRICES.

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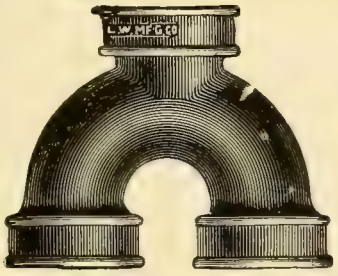
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Pipe can be easily put together by any one, very little instruction being needed.

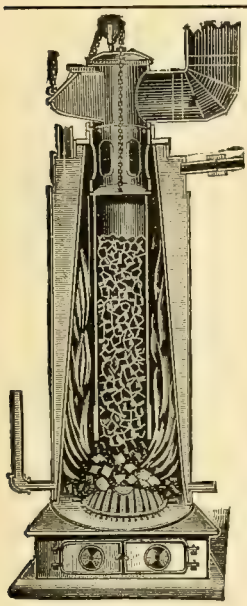
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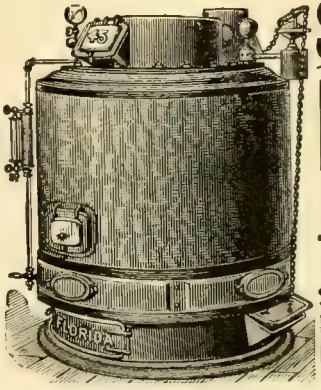


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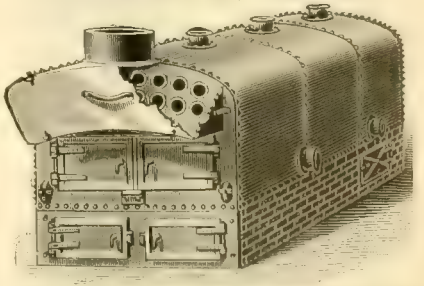
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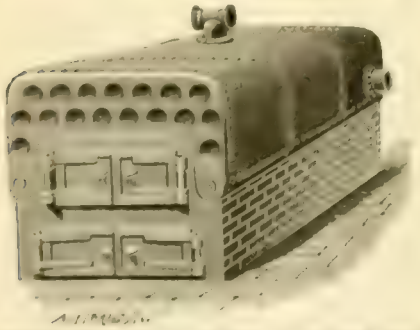
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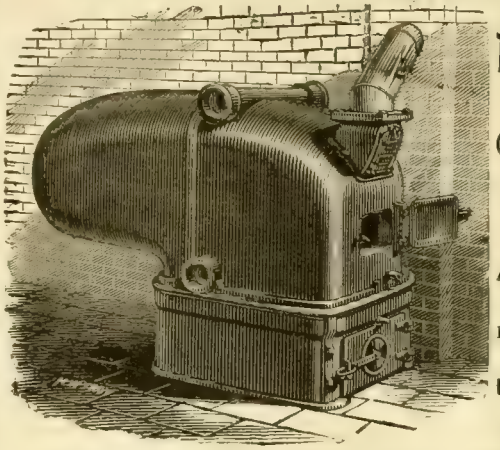
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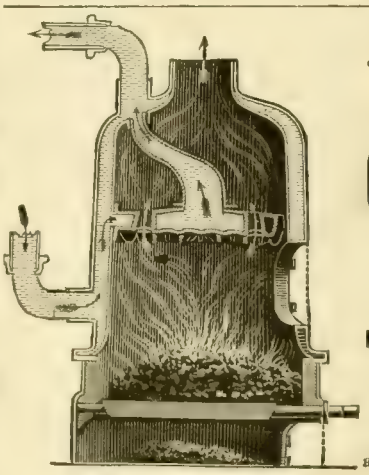
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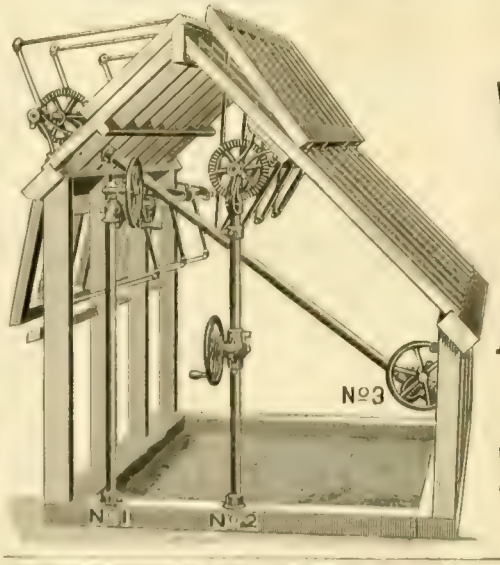
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Vol. VII. CHICAGO AND NEW YORK, OCTOBER 15, 1891. No. 176

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Address all communications to

AMERICAN FLORIST COMPANY,

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FOUR EXTRA PAGES this issue, making a 24-page number.

WE SHALL PUBLISH a corrected edition of our trade directory about January 1 next. Though we shall cover the whole country by correspondence, we invite corrections from anyone. And in order that your glass surface may be correctly given, send us a statement for yourself, over your own signature.



Exotic Orchids.

BY WM. H. CHADWICK.

[*Read before the Horticultural Society of Chicago Oct 3.*]

The orchid family is very widely distributed, those genera of which I shall speak existing mainly between the isothermal lines of 70 degrees on either side of the equator, forming a comparatively narrow zone around the earth, some few of them growing in shady places, but the majority reaching out for light and air, many climbing high up on trees.

Generally speaking, they are difficult to collect, and some species are transported from their habitat to any considerable distance at the imminent peril of losing every plant.

The botanical position of orchids is quite low among phanerogamous plants, indeed there is reason to believe that all endogenous plants are botanically recent and if this be true, it is so especially of the tree-climbing orchids of the warmer parts of the globe. While the coal measures of the earth preserve in rock caskets the beautiful imprint of delicate ferns, no geological traces of orchids have ever been found; and this fact may be considered as supporting the views I have mentioned.

Some botanists advance the idea that all flowers of the earliest plants were probably green and point to such instances as the green rose, which occasionally crops out, as evidences of atavism or reversion; the next step is thought to be toward yellow flowers, then white or nearly white, while red is a still higher grade, the climax being reached in blue, the celestial color. There is no blue orchid; the nearest that now occurs to me being Vanda cœrulea, but one cannot call the color of that flower a real blue; one or two have, it is true, an apron of blue, as has Zygopetalum Gautieri, etc., but even then it is only a nice, bright purple and not a true blue.

The weight of the argument seems to place orchids among the more recent additions to Flora's lovely kingdom; and her practiced hand seems to have outdone its previous work, for they are generally of convenient size, boasting but few giants, are unguarded by unpleasant defences, as thorns, while the flowers of many are confessedly beautiful and but few give off any but agreeable odors. Under cultivation the sobralias stretch out their reed-like stems to as much as 8 feet in height and some orchids throw up long stems of flowers, but as a rule the plants are low in stature and present their flowers in a pleasing manner.

Apparently designed to give so much pleasure, it seems eminently fitting that the family should not furnish much beyond the beauty of many of its members and this seems to have been the plan, for I do not recall any orchid of economic value besides the vanilla. Vanilla is prepared from the cured seeds of several species, largely from Vanilla aromatica.

Orchids are of perennial growth and many genera are a number of years in arriving at flowering age and in a state of nature they are long lived, some orchids having been found that are undoubtedly a hundred or more years old. As now cultivated some give more abundant bloom than in their native homes; when the management of a particular variety is perfectly understood and administered and it is protected from the vicissitudes to which they are more or less exposed in a state of nature, this may not be at all unreasonable.

Orchids being only weeds at home, we have to select the best and discard the black sheep, as with other things. The number of varieties is very great, among the thousands; more than 2,000 species have been described and in many species there are a great number of varieties, while new ones are constantly being found, and in addition the cunning hand of the hybridist is rapidly swelling the list. The island of Java alone contains more than three hundred species.

The public occasionally reads of great sums paid for orchid plants and it is true that individual orchids have commanded a thousand, twelve hundred, fifteen hundred, while the late Mrs. Morgan is alleged to have given $3,000 for a plant of Vanda Sanderiana, but these are rare and extreme instances. Sometimes rich persons compete for a specimen which is unique and pay a price entirely out of line, simply to have something that another cannot get or perhaps sometimes to keep the other from getting it. The fact is that orchids are cheap, cheap in comparison with other plants which are so slow of propagation and must be drawn from distant sources and at considerable risk. Good plants of many of the most beautiful are now to be had at prices ranging from $1 to $2 50 or $3, mostly at or below $2, so that everyone who cultivates flowers under glass may enjoy a few orchids at least.

This country now boasts some grand collections, among which may be named those of Hon. Erastus Corning near Albany, of Wm. S. Kimball at Rochester, of Hon. F. L. Ames at North Easton, of H. H. Hunnewell at Wellesley and of Mr. Jay Gould at Irvington and several others. I have no doubt there are several hundreds of quite fair collections in the United States. In this city we have several collections of more or less impor-

tance, among which are those at Lincoln, Washington and the West Side parks and the private collections of Messrs. Anthony, Hobbs, Lane, Palmer, Williams, Dr. Clarke, Wittbold and Chadwick, eleven in all.

The Duke of Devonshire, attracted by the gorgeous butterfly orchid, the Oncidium Papilio of Trinidad, became interested in orchids and finally so enthusiastic about these fascinating flowers that the famous Chatsworth collection was the result. For many years the possession of orchids was the privilege of the few, as the first cost was very high and further was much increased by the great mortality which was the rule for many years.

Orchid flowers, however, being among the most beautiful and curious in nature, attract attention and kindle interest, through the singularity of their shapes, the richness and variety of their colors and the delicacy of their aromatic odors. Few orchid flowers are fugitive, but the vast majority of them are remarkably lasting even when cut from the plant, while many remain on the plants in full beauty for weeks and some for months. I have had a single stem of Odontoglossum maculatum stand in bloom for five consecutive months, perfect flowers all that time. But it is very detrimental to the future well being of the plant to permit flowers to remain on too long before cutting. The qualities mentioned have been incentive in encouraging their culture even when it was prosecuted at heavy expense and with many repeated disasters, hundreds of thousands of valuable plants having been lost in the early days of their introduction and attempted growth. They are now imported in large quantities, sold at low prices and they are had from many dealers with but little trouble and their management is so well understood that they may be, and are justly considered, a good investment. The flowers, once beyond the reach of all but the affluent, are sought and enjoyed by all flower lovers and their future is still before them. The number and importance of both private and trade collections have greatly increased and there are few greenhouses anywhere that do not boast more or less orchids.

The love of flowers seems to be generally on the increase with all classes and, indeed, horticulture has taken a position with the public within the past few decades never previously attained, and I take this to be one of the good signs of the times. How little place has horticulture had in past expositions of the world's progress and today we may safely say that in our approaching Columbian World's Fair horticulture will be an important and one of the brightest and most attractive features, excelling anything of the kind ever attempted heretofore. The great orchid shows held of late years in London, Paris, Brussels, Boston, New York and other large cities, with the attention and patronage they have commanded and the enthusiasm they have evoked, tell the story plainly—orchids have become popular. Not only is this true, but from their qualities, to which I have briefly alluded, they are destined to become even more so and I look to see them become as generally grown and known as other flowers.

In the early days of attempted orchid culture their management was not at all understood, for thousands of beautiful orchids were brought from their airy, breezy homes in the tropics only to swelter, stifle and languish under the smothering treatment to which they were subjected, finally dying—killed by mistaken kindness. After many years of repeated failure a more rational system was established as the result of some experiments made by an English gardener, and for the past fifteen or twenty years it has been recognized that an orchid, even if it does come from a tropic land, enjoys fresh air and cannot long thrive without it.

A variety of temperatures and climatic conditions exist within the tropics, well illustrated by the fact that while the words "tropics" and "tropical" naturally suggest great heat we may consider one orchid, Oncidium Nubigemum, which is found in many collections, flourishes in the mountains of New Grenada, almost under the equator, at an altitude of 14,000 feet, and under cultivation requires the very coolest treatment given any plant that is grown under glass; yet it comes from the tropics. The warm, moisture-laden air currents from the Pacific striking the cool peaks of the Andean chain, part with that moisture in such a way that portions of the depressed plateau behind the first or coast range are almost perpetually bathed with showers and mists and fogs, until the vegetation fairly drips; yet from its elevation the district is always cool. Here grow some of the most beautiful orchids, oncidiums of chiefly golden hue, odontoglossums, the admired of all observers, and many others, but the pure and delicate Odontoglossum crispum and Pescatorei merit any amount of eulogium.

On comparing the various conditions under which the beautiful epiphytal orchids thrive and self-propagate, one arrives at the conclusion that altitude as well as latitude, moisture as well as heat are essential in determining their distribution—orchids of one kind or another grow in all latitudes except the very coldest and the very dryest. Finding the gorgeous epiphytes, then, from the Andean heights to the jungles of Borneo, we should not attempt to bring every sort under one temperature and one rule of culture, although experience demonstrates that many species may be grown together in one greenhouse and give quite satisfactory results, even though they are brought together from widely different parts of the earth. But it should be always understood that some will require one course of treatment and others a different one.

By far the larger proportion of orchids grow naturally upon the branches of forest trees, their long roots becoming fastened to the bark, thus fixing the plants in position. The roots grow around and about the adjacent branches and trunk, or hang down, drawing their nourishment almost entirely from the humidity of the atmosphere. Sometimes, it is true, the roots find nourishment in the mosses and decayed leaves, etc., which collect in the crotches of trunks and branches, but this is far different from growing in the ground. Therefore moisture is a most important factor in their culture, indeed when in full growth they can hardly (in reason) have too much water given them, and many sorts do not enjoy very severe drying, even when they are in a state of rest, but it is a good general rule that when the growth of an orchid is completed the supply of water should be greatly reduced.

Many fine orchids grow naturally not only on the branches of trees, but upon the boles of trees and upon rocks, boulders and ledges, while several other sorts grow directly in the earth, like the vast majority of plants. Thus we have two sections of orchids, the one last mentioned growing in the earth, called Terrestrial orchids, and the one containing those which grow *upon* something, as a tree or rock, etc., called Epiphytal orchids.

The species of the latter class are most numerous and interesting and are often confounded with and by many are supposed to be parasites, but this is an error. No orchid is a parasite, as are the mistletoe, the dodder and other familiar examples, which live upon the sap of the unfortunate bosom friend upon whom they flourish. The orchid, often called the aristocrat of the floral kingdom, does not live upon the fruits of another's toil, but is self-sustained and self-reliant, making its living honestly, and if an aristocrat, it sets a good example to others of the aristocracy. Its needs must be supplied and when this is properly done complaint is seldom heard and still less frequently merited, for under such conditions the beautiful flowers are usually profuse and the plants increase rapidly in dimensions and value.

As the epiphytal orchids, of which I will first speak, are emphatically air plants and are often so called, the air must or should carry to them their food, so during their growing season the atmosphere of an orchid house is found to be loaded with moisture to as high a degree as is consistent with the liberal admission of fresh pure air, for without proper ventilation they cannot long thrive.

The orchids from the highlands of Mexico, the plateau of the Andes, the Organ mountains of Brazil and a few from the cooler parts of the eastern hemisphere are happy under cool treatment, therefore we give them a house, preferably running east and west, and grow in the north exposure the greater part of the beautiful family of odontoglossums, masdevallias, adas, sophronitis, some oncidiums and a few others, and in the southern exposure most of the Mexican lælias, some epidendrums, nanodes, Cœlogyne cristata and some cypripediums, brassias, lycastes and others, and during a part of the year some cool cattleyas, as pumila, dolosa, Walkeriana, Lælia Dayana, Restrepias, etc. This "cool house" could be divided longitudinally by a glass partition to great advantage, and I so recommend. During winter nights the temperature of this house is permitted to descend to 50° and on summer nights is kept not below 60° and as near that as possible.

Those orchids which naturally enjoy a somewhat warmer habitat, as the gorgeous cattleyas of Brazil, etc., demand more generous treatment and are accommodated in the "intermediate house," where the temperature accords with its title, ranging from 50° to 60° in winter and 60° to 70°, or as nearly as possible, in summer. Here are grown nearly all the cattleyas, many lælias, as elegans, purpurata, flava, harpophylla, superbiens, most miltonias, some odontoglossums, as grande, phalænopsis and Insleayi, all sobralias, some vandas and oncidiums, most cymbidiums, some epidendrums, many cypripediums and the like.

Many gorgeous things from lowlands of the tropics, the islands of Borneo, Java, the Malayan peninsular, the Phillippines, Madagascar, India, Oceanica, and a few from Africa and the western hemisphere need more warmth, which they find in the "East India house" or "stove," where the minimum temperature is 60° in winter nights, and from 65° to 70° in summer nights. Here we find a congenial home for such as the angræcums, many arides, deciduous calanthes, all of the warmer cypripediums, nearly all the large family of dendrobiums, all phalaenopsis, saccolabiums, and most vandas, a few



POND OF AQUATICS AT LINCOLN PARK, CHICAGO.

cattleyas—superba, Lawrenciana, etc., chysis, Miltonia Roezli, and the like.

These three houses furnish sufficient variety of temperature for orchid cultivation, and by judicious arrangement of the heating apparatus and of ventilators, the well-being of every generally admired exotic orchid may be assured. It is evident that with our hot summers, an almost vertical sun and a bright sky, it is at times quite out of the question to keep the temperature down to or even near the limits just named. Measures are therefore taken to shield the plants from the burning rays of the sun, otherwise they may be burned, badly disfigured or even destroyed; and shade is provided which will temper the sun's rays and yet admit light, so necessary to vegetation. The glass may be painted over with a wash of white lead, skimmed milk and turpentine, or blinds and curtains may be fitted to roll up and down outside the glass. For my cool-house I use an open-meshed fabric, linen scrim, rolling up on wooden rollers, so mounted that when the shades are down there is a space between them and the glass of about 10 inches, giving a circulation of air between shades and glass very beneficial. This plan can hardly be recommended too highly.

Insects are a great pest, and we have used many remedies, but find that Hughes' Fir-Tree Oil is excellent for scale, mealy bug, etc., while we keep clear of green-fly by a simple, but efficacious preventive, which I have found much better than the usual practice of fumigation. We get tobacco stems from cigar-makers, and put them in piles of say a bushel on the hot water pipes, then when closing up the houses at night we dampen the tobacco stems. I need not say more for these remedies than to invite an inspection of the houses. Have used the tobacco stems more than six years, and shall continue their use. We trap slugs with cabbage leaves, etc., and rid the houses of ship's cockroaches by free use of phosphorus paste. The floors of the houses should be of earth with walks provided in the paths, earth floors being far preferable to concrete or cement floors. I have tested both thoroughly.

Rainwater from the roof should be caught and stored in tanks for use, and should be kept at about the temperature of the house. While water is necessary to orchid growth, it may be made the instrument of their destruction; if it is allowed to drip on the plants from overhead, or if the roots are allowed to stand in it as when the drainage of a pot gets clogged, so the superfluous water cannot pass off. The rafters of the houses should be channelled so as to carry away the water, thus avoiding drip; they are now to be had of lumber dealers made in this manner.

In large collections a room should be provided for exhibiting the plants in bloom, as it is much more comfortable to so view them, and the flowers keep fresh much longer in cool and dry air. Such a room can be partitioned off from the cool-house.

It would consume too much of your time for me to go into the details of potting and mounting and basketing the plants, therefore I will say in short that for most epiphytal orchids, in either pots or baskets, we use potsherds for drainage and are liberal in their use, and give them very loose, open, well cleaned peat for their roots to work in, and in growing season they enjoy a couch of live sphagnum moss growing on top of the peat. I procure a most excellent article of both peat and moss of Messrs. Williams, of Batavia. We put vandas and ærides into potsherds alone, no peat, but always a topping off of sphagnum. Formerly using charcoal, I have discarded it of late almost altogether.

When growth is finished many sorts demand a season of marked repose, with diminished waterings, and in some cases water must be entirely withheld for a time; the temperature should then be lower. After the growth of our deciduous dendrobiums is finished and ripened, we take them from their growing quarters and at once put them into the coldest house and keep them on the dry side; there they stay until the flowering season is over and new growth commences, when they go back into the stove house. During the daytime the temperature of each orchid house should rise some 10° above the night temperature, thus according with natural conditions.

This season we have tried the experiment of growing some of our exotic orchids out of doors under an open arbor partially covered by a grape-vine, where we laid some boards on the ground, and spread on them a layer of live sphagnum, on which we placed the plants about the middle of June 1, where they remained until September 20. The plants included Cyp. insigne, which grew finely, and is now better budded than ever before—about half a dozen large specimen plants. Also Cœlogyne cristata, about half our collection; of these we selected only those plants which had flowered the poorest in the past. The bulbs formed are smaller than common, but each plant now shows about 25 flower spikes—an immense improvement. Also three varieties of epidendrum and some large plants of Isochilus coronatus, all of which have thriven finely. The experiment was gratifyingly successful.

Terrestrial orchids are those which naturally grow in the earth, and include the large and widely distributed cypripediums which are found in three out of four quarters of the globe, stretching from the American continent through Britain and northern Europe, through India and as far north as Japan. There are some immense collections of cypripediums in both England and America. Some cypripediums become epiphytal, however, under certain conditions, and grow on the branches of high trees, as Cyp. Lowii. Among the better exotic terrestrials are the delicately beautiful calanthes, sobralias, some cymbidiums, disas, thunias, habenarias, phajus, etc. They are usually grown in a mixture of peat, loam and leaf mould, and they are generally of easy culture.

I have been asked frequently what orchids I would recommend florists to grow for cut flowers. The first consideration is: Can I recommend them to grow any orchids whatever for cut flowers? The answer is, yes. The following are popular flowers, and furnish a good assortment, while the plants will grow in a common greenhouse, and will not cost more than $1 each for good trade plants. Of the cattleyas, Percivalliana, Trianæ, Gaskelliana, Mossiæ, Bowringiana; Odontoglossoms grande, Insleayi and Schlieperianum; Cœlogyne cristata; Oncidiums crispum, varicosum, leucochilum and tigrinum; more expensive but fine is Cypripedium Spicerianum, while the following are all better, but much more difficult to grow: Cattleyas gigas, Dowiana, aurea; Phalænopsis amabilis; Calanthes of the vestita type; Vanda sauvis; the cool odontoglossoms, as crispum, Pescatorei, etc.

I have attempted to sketch the outlines of my subject as well as I can in a short paper and in a common sense manner, for there has been too much mystery thrown about orchids and their treatment. Until my collection assumed considerable size I cultivated and managed my plants unaided, having had no previous experience, and I have been successful from the start with nearly every sort I undertook. Hence, I feel no compunction in recommending this beautiful family to any of you, and I hope many more will take up their cultivation.

Aquatics.

We present in this issue two views of the ponds of aquatics at Lincoln Park, Chicago, from photographs taken about the middle of September. The engraving on page 205 gives a view of a portion of one of the unheated ponds, which have naturally disposed margins and contain many of our own natives as well as exotic sorts. At the right is seen a clump of the "rice grass" (Zizania aquatica), while the large mass of foliage in front of it is Nymphæa marliacea chromatella, showing the tendency of the marliacea sorts to bunch. Near the bridge the foliage of Nymphæa alba can be seen and in the lower right hand corner is a tangled mass of Limnocharis Humboldtii, Limnathemum nymphæoides and Eichhornia crassipes major. Other nymphæas are seen at the left. Though the engraving is certainly an excellent one it gives but an imperfect impression of the beauty of the pond, for the planting of the margin is such that new beauties are discovered at every step and few if any are shown in the picture.

The engraving on page 207 gives a view of a portion of one of the heated ponds. Here the growth is more luxuriant, but the ponds are smaller and the surroundings less attractive. In the picture a few leaves of a Victoria regia are seen at the extreme right, while to the left of these and near the center is seen a large plant of Nymphæa Zanzibarensis. Still further to the left—where the label is seen—is a plant of N. odorata rosea and in the right of the foreground is N. Devoniensis. At the left, in the distance, is a group of Nelumbium speciosum. Across the walk from the further margin of the pond can be seen a bed of cannas and caladiums which is a type of numerous handsome foliage beds that find a place in the park.

We are indebted to Superintendent Pettigrew and Head-gardener Stromback, for the following details regarding the construction of these ponds:

After the excavation was made the sides and bottoms of the ponds—which are in sandy ground—were rendered water tight by puddling them with clay. Blue clay is the best for the purpose, but clay that will answer the purpose can generally be secured anywhere by digging deep enough. If the clay is hard it is softened a little with water and when in proper condition is cut into slices about four inches thick with a spade. These slices are laid on the sides and bottom of the pond, fitting as closely together as possible, so as to form a complete layer of clay over the whole surface. The edges of the slices are then tamped to make the basin absolutely water tight. If the clay is too hard to tamp easily and well it is softened with water, but it must be tamped hard so that no leaky places may be left. The pond should be so arranged that the water may be drawn off at will.

At Lincoln Park the nymphæas are planted in the ponds in boxes eight feet square and one foot deep. These boxes are placed in position in the pond and filled with a compost consisting of one part heavy soil, one part light soil and two parts well rotted cow manure, well mixed together. The nymphæa is then planted in the center of the box and the surface of the soil covered with 1½ to 2 inches of sand to keep the manure from floating to the surface of the water.

Nymphæa Devoniensis is propagated from the young tubers. Mr. Stromback gathers the young tubers when he cleans out the ponds in the fall and places them in layers of sand, slightly moist—just so they won't get the dry rot—and keeps in a temperature of about 60°. About the middle of January these tubers are planted in a sandy loam, in a seed pan, and placed in a water tank, where the water is maintained at a temperature of about 80° until the eyes start. When the shoots are four or five inches long and have formed roots, they are detached and potted in 3-inch pots and placed back in the tank. They are shifted into 4 and 5-inch pots as growth requires and are then soon ready for the pond.

Nymphæa dentata is raised from seed. The seed is sown thinly in seed pans containing sandy loam, about January 1, a little covering of sand over the seed. It is about the size of mustard seed or even smaller. The pans are placed in the water tank, with about four inches of water over the top of the pans, and the water maintained at a temperature of 75° or 80°. When the seed germinates the little plants present the appearance of fine grass. When they have two leaves developed the plants are potted singly into 2-inch pots or pricked out into pans and later placed in separate pots. They are shifted from 2-inch into larger pots as required. Dentata does not grow as fast as Devoniensis and will be in 3 to 4-inch pots at time for planting out in the ponds. The seed can also be sown in the summer as soon as ripened on the old plants, the little plants handled in the same way as the others and kept in a tank over winter. Such plants will be stronger than those sown in January. But after August has passed sowing should not be undertaken until January. When the seed is sown in July or early in August a small bulb will be formed by fall, which can be easily carried over winter and make a strong plant. When the seed is sown in summer the temperature of the water need not be so high as in winter; 65° is high enough to carry the little bulbs over winter—that is, until January, when they should be started up by giving a temperature of 75° or 80°.

The ponds illustrated already show the effects of cold nights and the first hard frost will bring the summer display to an end. But both Mr. Pettigrew and Mr. Stromback express the belief that the plants could be made to bloom up to the holidays if the ponds could be covered by glass and heated, and that florists could grow these aquatic beauties for cut flowers at a profit in the early winter months as well as in summer. For commercial work they suggest an eight-foot wide trench covered by a twelve-foot house, which would allow for a two foot walk on each side. Such a house should be started in April. Air should of course be given on all favorable occasions. For evening decorative work the night bloomers, N. dentata and N. Devoniensis, are most useful. Many of the day blooming kinds are mentioned in the article on page 102 of our issue for September 10.

The Best Method of Wholesaling Flowers.

[*Read before the Florists' Club of Philadelphia by Joseph Heacock, Oct. 6.*]

MR. PRESIDENT AND FELLOW MEMBERS OF THE FLORISTS' CLUB:

When asked a month ago to prepare a paper to be read this evening I could not find it in my heart to say no after spending so many pleasant evenings with you and having partaken of the fruits of others' labors in the same direction, but I must confess that it was with great doubts of my ability to say anything that would either entertain or instruct. But having consented, I have jotted down a few thoughts and I hope you will not be entirely disappointed.

"The best method of wholesaling flowers" is a subject that must interest us all. To the grower it is that method which will dispose of the product of his thought and labor with the least expenditure of



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time and for the most money. To the retailer it is that method which will furnish him what flowers he wants, when he wants them and for the least money.

I would not have you think that I believe the growers' and retailers' interests are not identical, for such is not the case. Whatever is to the interest of one is to the interest of the other.

But what is the best method? I feel like quoting the Frenchman who gave directions for killing fleas. "First catch your flea." First get your flowers; and in getting them you cannot use too much *method*. "It is hard to sell an old shoe"; it is also very hard to sell poor flowers. Therefore use all the methods that are known to the trade. Watch the one hundred and one things that need attention and when as a result of your patient thought and labor you find yourself in possession of really good flowers you will find that they are already more than half sold.

The first cut flowers that I grew were Peter Henderson carnations. I sent them to a commission man in this city. The returns were very low, 50 cents per hundred, with 15 per cent off for selling. Of course it did not pay, but I hoped that it would some day, and on the Saturday before Easter, which came that year on the 2nd of April, I sent in 800 fine flowers. I imagine that I hear the rustle yet that the Peter Hendersons used to have, I told the boy to ask what they were getting for them and when he returned he told me $2 per hundred. We only settled once a month, so that I had no return until the 1st of May. I felt sure that I had sold 800 carnations for $16 less commissions. But when I received the statement I had an eye-opener. I have it yet. It read:

800 carnations	$4.00
Commissions	.60
Balance	$3.40

I concluded that there must be some mistake. But he insisted that it was right and that was all he would allow. I had had enough, so I took my little basket and went from store to store and sold all the carnations that I brought in during May and June for 75 cents per hundred and kept the commission. And this method has been so satisfactory that I am carrying my *little* basket yet.

This covers my experience with consigning to the commission men, with the exception of occasionally leaving some flowers when I had a surplus, with Mr. Baker, but I have always been disappointed when we settled. Agreeably so, however, for he always gave me more money than I expected. I believe most of the flowers that come to Philadelphia are disposed of by taking them around from store to store.

In my own case arriving in the city at 7:40; entering a store with a good morning; opening the basket; "what can I do for you to-day"; "why, you may give me some La France." Hang it, they are in the bottom of the basket. The basket is unpacked. The counter is covered with what he does not want before I reach what he does. The basket is repacked and I go on to the next place. Again unpack the whole of the contents, for pack it as I will the retailers are generally perverse enough to want what is the hardest to get at, repeating the unpacking and packing at every place and damaging the flowers each time. I noticed this more particularly last winter. I was carrying some Mme. Hoste buds and though really good buds when I started, if I did not succeed in selling them early in the morning, but carried them over my whole route, they were not worth selling. With roses of firmer petals the injury was less perceptible, but I know that they were all injured to some extent.

By noon I have covered my usual route and have been at ten or a dozen places, offering in many instances what was not wanted and missing the sale of the same to those who did want it, if they had known where to find it. A morning has gone and not over one hour's actual work of selling has been done. The rest of the time has gone in bruising flowers and in hustling from place to place. And one morning to the grower is not all, but he loses over 300 of them each year. Do you imagine that the grower is the only one that loses?

How often is it that you have an order to get off early and you wish the man

that serves you was only here. "What can be keeping him? If we didn't need the buds he would have been here an hour ago. It's always the way." And when he does come his "crop is off." Or maybe he has sold them to some one else, not knowing that you needed them very badly, possibly not caring, or if he has them they may not be as good as you expected them to be. You have waited until it is so late that you cannot get others and are forced to use them, but feel badly about it, but not nearly so badly as you feel sometimes afterwards when you find that your good customer has stopped dealing with you.

I estimate that there is not less than a quarter of a million of dollars' worth of flowers sold annually in this city. The business has made immense strides; each year has seen a large addition to the area covered with glass. Probably none greater than the present one; and it is going to continue.

Philadelphia is a large city covering many square miles solidly built with homes containing over a million people, with an annual increase of about 40,000 to her population. A town of that size springing up in the west is thought to be a wonder. It is occurring here every year and we think nothing of it.

There are retail florists in every part of it and yet there is no place in this whole city where they can meet the growers and fill an unexpected order. Each grower is working on an independent line instead of being united and having our business concentrated.

I believe the time has arrived when we ought to have an exchange for the sale of flowers in the central part of the city convenient to the two great railroad depots, where each morning the growers could meet the retailers and quickly dispose of their flowers, and that it would be mutually advantageous.

I cannot imagine any way in which this club could be of more use to its members than by starting such a market and at the same time it could be made a source of considerable revenue to the club.



Seasonable Notes.

October always brings very changeable and varying weather, and the grower will need to watch them very carefully to keep the temperature of the houses somewhat regular, otherwise when a warm spell follows closely upon a cool one, weak soft growth will be the result, which means poorer chances of a good crop when shorter days come and roses are in greater demand. To guard against this it is necessary to keep the temperature as low as possible, consistent with keeping the plants healthy, during dull, cold weather, say as near 56° at night as possible; and when necessary to have a little fire heat to keep the dampness out of the houses, leave a little top air on all night, and give all the air possible by day. During cloudy weather give as little water as possible; as it is better to keep the soil a little on the dry side during such weather, rather than have them make soft growth by keeping them too moist, but lose no opportunity to syringe the plants overhead on all favorable occasions.

Keep all weeds and decaying leaves cleared off, as an accumulation of such only harbors insect pests which need great care to avoid at this season, as once they get a hold on the plants it is very hard to get rid of them again, particularly red spider. Wherever "green fly" shows itself, fumigating or vaporizing with tobacco must be attended to, but as soon as the buds are needed fumigating will then be dangerous, as it discolors the buds; but where tobacco juice can be vaporized it is much the simplest way of destroying these pests, and I have yet failed to find it injure the most delicate flower; but this can only be done where steam is available. Where it is not practicable to follow either of the above methods, covering the walks, etc., with stems should be resorted to, but this method is more expensive than the vaporizing and always gives the house an untidy appearance.

Also, watering will now need special attention; in fact, watering, in the general acceptation of the term, will hardly ever be needed at this season of the year. We have found for years that when we can give the plants a fair syringing (with a rose jet on the hose) overhead they very rarely need any other watering. Of course there will be spots in any house that will occasionally need more than other parts of the same house, but with a little care these can always be seen and the additional water given during the general syringing, without affecting the other parts of the house, and it is always advisable to do whatever syringing is necessary as early in the day as possible, so that all surplus moisture may get dried up before night, otherwise mildew will be sure to follow, and black spot also be sure to put in its appearance if a damp, close atmosphere is allowed to remain in the house for any length of time.

As soon as the weather gets cool enough to demand a steady fire heat every night, a thin mulching of well-decomposed cow or sheep manure (not more than half an inch) should be put on, covering all the soil; this will help to bring the young feeding roots to the surface and supply them with the food they like best, which, in turn, will produce good, strong shoots from which the finest buds can be cut during part of November and December.

Those who wish to grow "Papa Gontier" should remember that to retain the leaves on the plants they should never be allowed to become very dry; also, if fine, large buds are desired, the night temperature for this variety should from now on never exceed 55° at night; 52° to 54° will suit them better. W. F. Bennett and Meteor will, on the other hand, as a rule do better with an average temperature of 58° to 60°, but should have an abundance of air during the day, in fact, no rose will produce really fine buds without it.

Attend carefully to tying the plants up as they need it, otherwise there will be many crooked stems, which will be detrimental to the flower and lower the price in market. The most suitable way to do this must be a matter for each grower to decide for himself, as opinions differ so widely on this matter. Here we have found a number 6 wire cut the desired length and used as an ordinary stake, with a thin galvanized wire stretched near the top the full length of the house, to which the stakes are all tied, makes the most convenient, and at the same time the neatest way of tying and supporting the plants of any we have yet tried or seen. We buy our wire stakes all cut the desired length and straight, and find the cost, everything included, is not very much more than the ordinary stakes, either wood or bamboo, and they will last for years. Mr. John Reid, of Jersey City, has used them now two or three years, and is more in favor of them every year. JOHN N. MAY.

Another Rose Record.

A lot of over 15,000 salable roses cut during October, November and December, 1890, and January, February, March, April and May, 1891, eight months, gave the following number of buds cut from each plant of the kinds named during that time:

La France	16.7
Perle des Jardins	15.2
The Bride	5 3
Niphetos	12.
Duchess de Brabant	25.5
W. F. Bennett	16.3
American Beauty	13 3
Mme. Hoste	12.
C. Mermet	7.1
Duchess of Albany	8.2
Mme. Cusin	14.
Average	13 2

W. T. BELL.

Our Telephone.

"Hello, central! Connect us with the Botanic Garden at Washington."

"There they are. Go ahead."

"Hello! Is that Mr. Smith?"

"Yes."

"Good morning, Mr. Smith. We know you are a busy man, between housing your plants for the winter, answering questions about the Victoria regia and explaining the peculiarities of the 'Mother-in-law' plant by day and the rival claims of that horticultural society, and that Burns collection at night, the problem is how you find time to rest or sleep. But if you can spare a few moments to talk to the readers of the FLORIST, we shall be pleased to tell them what you have to say."

"Gladly. You refer to the 'mother-in-law' plant. Now, some people have been inclined to censure me for introducing and giving currency to these so called popular names in connection with plants, but we believe in them here, and the leading thinkers are with us. The scientific law of priority often saddles a beautiful thing with a very unpoetic or unpronounceable name. When a popular name can be invented that has some descriptive or other character relative to the history of the plant, I am very much in favor of it, providing it will take with the people. If not, it will soon die. But in all cases there must be no attempt to deceive.

"Yes, I believe in names for the people, plants for the people. There are certain plants which may be called 'people's plants.' They must be of easy culture, the range of territory in which they will do well must be wide, and they must have certain peculiarities of beauty or utility which will make them favorites with the common people.

"There are many plants which deserve to be better known by the people. I have in mind now the Grevillea robusta. There is a 'people's plant,' easy of culture indoors in winter, and most graceful bedded out in summer. Another, the Phyllanthus roseo-pictus, or 'painted leaf plant,' is beautiful as a summer bedder. Dichorisandra thyrsiflora for mixed beds on a back line is a good one. This plant does well planted out, has beauty both in foliage and flower.



ALOCASIA SANDERIANA.

"I can see from my window a number of beautiful clumps of Abelia floribunda, covered with dainty, sweet-scented white flowers, and it has been so all summer. This is an old plant, yet it is scarcely known. Still, it is not only valuable as a people's plant, but as a florists' plant as well. For using in delicate funeral or bridal work no jessamine or bouvardia can excel it; it is always in bloom, is perfectly hardy in Washington, and possibly hardy much farther north.

"Jatropha Manihot is a neglected subtropical plant. Its seeds lie in the ground here all winter, and germinate in the spring. Dug up and stored from the frost anywhere, tall plants of it can be kept over winter.

"Terminalia elegans and Leea coccinea are also two very fine plants for subtropical effects, with rich, glossy, aralia-like foliage.

"But best of all, don't forget to mention the Eichhornia crassipes, or Pontederia crassipes, sometimes called the 'water hyacinth.' Here is an aquatic plant which should have a place in every garden. It is cheap, of easy culture, and flowers continuously. It is essentially a 'people's plant.'

"And this city of Washington is the 'people's city.' The 'New Hub of the Universe,' with all due respect to the 'Old Hub.' When the national society meets here next summer we will show them our street trees, which are the pride of the city, and without which Washington in summer would be almost uninhabitable. This has been our great life work, and is a monument far more glorious than any tower of marble can ever be. We have three streets planted entirely with the Salisburia adiantifolia, or Ginkgo tree. According to Loudon this is the best of all town trees. We have found it entirely satisfactory. The trees are doing finely, and are now beginning to bear seed."

"Then, Mr. Smith, your motto seems to be, 'Peop e's plants, people's names, the people's city, and the people's poet,' don't it?"

"Amen! Amen!"

"Before closing we would like to call your attention to a note which has been going the rounds of the daily papers to the effect that a gentleman is cultivating callas extensively in Florida for the tubers, which are to be introduced as an article of food, and which are said to resemble somewhat the sweet potato when cooked. Do you know anything about it?"

"I have been looking that matter up, and Smith's 'Economic Botany,' of Kew, makes no mention of it, nor can I find it named anywhere as an edible root. As it belongs to a dangerous family, if you mention it in the FLORIST at all, I would do so with caution."

Alocasia Sanderiana.

This most gorgeous foliaged stove plant, a native of the Eastern Archipelago, was sent out by Mr. William Bull in 1884 and '85.

The magnificent specimen illustrated was grown by Geo. McWilliam, of Whitinsville, Mass. At the annual exhibition of the Mass. Horticultural Society last September it was awarded a richly deserved silver medal.

This plant grows well in a mixture of fibrous peat, sand and charcoal, but will grow better in fibrous loam, leaf mould and charcoal, in a warm stove with a winter temperature of 65°, rising 20° in summer. Treated kindly, with water the temperature of the house, it will thrive first rate and make a pleasing subject, but treated carelessly, with cold water from an ordinary hydrant, it will dwindle away and there will be nothing left but the pot and soil. D. ALLAN.

World's Fair Notes.

The latest feature devised by Mr. Thorpe is a huge rock-work under the central dome of the Horticultural Building, which will be in round figures 100x100 feet and 70 feet high. This will be naturally arranged in the form of a miniature mountain and will be clothed with the thousand and one plants that will there find a congenial home, including giant tree ferns and palms. A mountain stream will dash from rock to rock from summit to base, appearing and disappearing beneath the tropic foliage, and furnish moisture for the plants that will grow along its margin, and that will delight in such conditions.

Underneath this rockwork will be a cave 80x80 feet and 60 feet high, which will be brilliantly illuminated by electric light, and in which will be carried on some very interesting experiments as to the effect of the electric light on the growth of plants. The cave will be elaborately decorated with plants, and during the six months that the Fair is open the question as to whether electric light can be made to take the place of sunlight in the growth of plants will be definitely settled. The Chief of the Department of Electricity is very enthusiastic over the proposed experiments, and has promised Mr. Thorpe all the assistance in his power.

Mr. Thorpe also proposes to make a feature of roof gardening, and will utilize the roof around the central dome of the Horticultural Building to show elaborate examples. He proposes to in this way show to the people who live in large cities the opportunity for gardening on a small scale that is open to every householder.

Another feature that Mr. Thorpe is endeavoring to add is a display of the native flora of each state, and prospects for its accomplishment are now very favorable. Mr. Thorpe has enlisted the interest and aid of the Board of Lady Managers, and the ladies are quite enthusiastic over the project, Mrs. Potter Palmer, the president, especially so. The collection of the material is to be made through the Lady Managers of each state. This botanical division will be under the direction of Mr. H. H. Hindshaw, a well known botanist of Chicago.

Last Monday Mr. Thorpe received three boxes of tuberous begonia flowers from Mr. Thomas Griffin, of Westbury, L. I. They came through in excellent condition, and were a splendid lot of blooms. The single flowers, though all very large, had more substance than any others we have seen, and the range of color was remarkable. In one seedling —a large single pink flower—two of the petals had crinkled or frilled margins. Mr. Griffin proposes to make a display of blooming plants at the Exposition in '93.

WHAT IS the cost of running your establishment for a year? And how many square feet of bench room are there in your houses? Divide the cost of maintenance for a year by the number of square feet of bench room and you have the cost of maintenance per square foot. It is estimated that to be profitable each square foot of space should produce at least $1.00 during the year. Is your establishment doing this? If not, is all your stock returning you a profit, or is some making a loss for you without your knowledge? Find out by keeping an accurate record of the returns from each kind of stock you grow.



Seasonable Notes.

We are now nearing the time when the results of a year's labor are to be exemplified. I am anxious to record the issues of 1891. The nearer the time the greater the anxiety, and I know that many of my brethren realize the importance of what can and should be accomplished.

There is so much to be done between now and the time of the exhibitions that I can simply say, "Eternal vigilance" is the price of GOOD chrysanthemums. That means constant watching, not only by day, but by night. It has happened to me that a fat snail has climbed up to the very best flower and made his breakfast on it. The ordinary wood-louse has also very often been the means of causing me grief by biting off here and there a petal, thus destroying a year's work. Look out for insects. Be careful in watering. Don't be afraid to give plants liberal doses of manure water or other stimulant.

JOHN THORPE.

Chrysanthemums Around Boston.

The most promising lot of flowers in this vicinity is at Galvin Bros'., at Dorchester. Mr. Sam Coleman, formerly with C. J. Power, is in charge. He has two large houses filled with chrysanthemums, each plant grown to a single bloom. They are all planted out on benches and are in splendid condition, with fine, large foliage, and enormous buds just beginning to show color. It was said that when Mr. Coleman went to Dorchester that he would find that chrysanthemums would not grow there as they had done at Framingham, but he has proved the contrary. Among his most promising varieties are Ada Spaulding, Kioto, Mrs. L. Canning, Domination, and W. H. Lincoln.

Lawrence Cotter, at C. V. Whitten's, has his also planted on benches. He has labored under the disadvantage that his house was not ready till August, and his planting was very late in consequence. They look well, however, especially Rohallion and Mrs. Alpheus Hardy. Of the two new houses built for this establishment last summer by Lord and Burnham, one is filled entirely with chrysanthemums, and the other with Ulrich Brunner roses. The Brunners were planted in June, and are at present as handsome a lot of plants as can possibly be found.

Mr. William Edgar, at Waverly, has two large houses planted exclusively to chrysanthemums. There are a few of these on benches, but they are mostly in solid beds. Mr. Edgar grows three to five flowers to a plant. He propagates very early, and his plants are consequently very tall. They are in thriving condition, with clean foliage, and there will be an immense crop, probably the largest cut of any one establishment about Boston. At present (October 8) there is one bed of Mme. Le Croix in full bloom, from which he has been cutting during the past week for the Boston market. Other varieties that are looking well are Rohallion, Domination, President Hyde, E. G. Hill and Ada Spaulding.

At Mr. Walter Hunnewell's, Mr. Hatfield has a lot of beautiful exhibition plants, also a good many seedlings, with the crosses carefully kept and numbered.

At Mr. Arthur Hunnewell's, Mr. Cole has a magnificent show of plants, which are equal to the very best ever grown in this vicinity. They are from 3 to 5 feet high, and when tied out will average from 4 to 6 feet across.

Fred Palmer, at Brookline, has his plants all in pots, about 8-inch size. They average 8 to 10 flowers on each plant. These are not grown specially for exhibition purposes, but are a fine lot of marketable blooms.

Mr. W. H. Elliott, at Brighton, has 2,000 fine, bushy plants in 8 and 9-inch pots. These are such varieties as Gloriosum, Pres. Hyde, Lady Selbourne, Source d'Or, M. Boyer, W. H. Lincoln, and Fair Maid of Guernsey. They are intended for market plants, and are grown low and bushy, bearing after disbudding from 50 to 75 flowers. Mr. Elliott also has one house benched for late cut blooms from very late struck cuttings. These are quite low, but the warm weather has pushed them forward, and it is doubtful if they are much behind the average crop in blooming.

Mr. A. H. Fewkes, at Newton Highlands, plants his chrysanthemums in the ground. He planted them quite late this year, but they are looking well, and will show a good crop of marketable flowers, 3 or 4 to a stem. He has quite a number of seedlings that look very promising and also has sets of all the varieties disseminated this year. Some of these are showing up better than many of the finest established favorites.

E. A. Wood, at West Newton, has a bench of healthy plants grown one flower to a plant on the same plan as Mr. Coleman's and Mr. Cotter's. Also 400 in 6-inch pots grown to one flower also. Some of the early varieties are showing color, and they give promise of some good specimen flowers by exhibition time. Mr. Wood has all the new varieties that have been put on the market this year, and a batch of about 100 seedlings that are looking finely.

Mr. Fewkes and Mr. Wood have both done their cross-fertilizing very carefully, keeping a strict record of the parentage in all cases. Mr. Fewkes complains of the Rose Weevil, and the cut-worm seems to have been giving more or less trouble all around.



Notes on New Carnations.

It may seem a little early to say much about the newer varieties. It is not, however, too early to make notes as to the time the different varieties should be pinched for the last time when growing out doors. The final stopping of the following sorts was done about August 26. For some varieties this was about right, while for others it was too early, and again for others it was too late. Though I suppose it is better not to be too hasty in arriving at that conclusion.

The varieties which have not produced a flower yet are Fred Creighton and Beauty of Oxford. The former I know to be a good one when it does come, but of the latter I can say nothing, as I have not yet seen a flower.

Golden Gate bursts its calyx. It rarely showed that defect with me last year.

J. R. Freeman, a light crimson, promises well, being well set with buds. The flower is good both in size and form.

Louise Porsch has so far given me only one flower; this is lighter in color than Buttercup and not as good in form, but it seems healthy and promises well for a good crop.

In passing I must say that the Buttercup is an entire failure with me. I secured strong healthy plants from a grower who is very successful with it, but with me it is the sorriest looking object in the whole lot of carnations grown here. The few plants which held through the summer and were put into the greenhouse with the rest will have to be thrown out. This is only a repetition of my experience with the same variety five or six years ago.

Daybreak pleases me very much. The flower is of good form and substance and the color is a delicate salmon or flesh color. When it may be had in sufficient quantity I think it will please the flower buyers.

Nellie Lewis is disappointing. It bursts badly. Outside of that serious defect it seems to be a very promising sort. It is a strong and healthy grower, a profuse bloomer and the color is a delicate pink. The flower is striped with two shades of light pink. Lizzie McGowan promises well, the plants grew satisfactorily, are set with a good crop of buds and the flower is of good form, though with a tendency to recurve, which we must say is a defect in a carnation.

Creole is a fine large flower of a deep crimson color. The plants have grown well, are healthy and are set well with flower buds.

Welcome evidently belongs to the Century type. It is very much like it in habit, though the color of the flower is a few shades lighter, as seen here.

Hector: This promises to fulfill all the good things that have been said about it. It is a thrifty grower, evidently a free bloomer, and the flower is large, without any suggestion of coarseness and the color is a brilliant scarlet. Portia will have to look to her laurels.

Fred Dorner is a very large flower, but unfortunately a majority of its flowers split their calyx. It is a scarlet.

Nelly Bly is a salmon striped with bright scarlet. It is very much like Cæsar, but the flower is not quite so good, nor does it seem to have so stout a stem.

Grace Battles is the ideal pink in color, a dwarf grower, profuse and early bloomer. It is in full bloom now. I am advised to pinch every flower stem off. If there is such a thing as a variety being too floriferous I believe it may with truth be said of this one.

Angelus somewhat resembles May Queen in color, but it is a little lighter I think. It is a good grower.

Patti is after the style of Chester Pride, but the flower is larger and in every way better.

I have several other novelties on trial, but they have not yet flowered. I must therefore defer mention of them until some future time.

About the right time to stop pinching: Each variety must be studied, so as to determine that point for our own individual selves, and then compare notes.

In this way we may get some ideas as to whether locality, soil or season has anything to do with our crops. Now is a good time to examine each variety with note book in hand, and thereby establish a guide for future operations.

No doubt the classification of this popular flower will be taken up by the American Carnation Society, so that in descriptions a variety may be referred to as early, medium or late.

EDWIN LONSDALE.

New York.

At the meeting of the New York Florists' Club last Monday evening, the nominations of officers for the ensuing year were as follows: President, James Dean; vice-president, Theo. Roehrs; secretary; John Young; treasurer, C. B. Weathered, trustees, W. A. Manda, H. A. Siebrecht, Wm. Plumb, S. C. Nash, Julius Roehrs, Ernst Asmus.

From all directions comes the welcome news that the period of excessive glut on roses is past for the present. Prices have stiffened up materially, and stock is disposed of more readily. When the great crop of chrysanthemums comes in the rose market will undoubtedly feel the pressure, but until then prospects are good.

Chrysanthemums just now are at fancy figures. Anything fairly good in blooms goes readily at $25 per 100. Good blooms of Mme. Des Grange are to be had in limited quantity. October Beauty comes in clusters and sells well. Indications are that while there may be a larger quantity of chrysanthemums on the market than there was last year, yet gilt-edged stock will bring fully as high prices as ever. The Madison Square Garden show will fortunately come just at the time when the biggest glut will be on, and will be a potent factor in maintaining prices.

In carnations the demand is for longer stems. A year or two ago 6 to 8 inches was considered a good stem for a carnation. Now 18 inches is none too much. And unless they are exceptionally long, customers don't want them.

There is constant demand for cattleyas and when a certain promised invoice of the famous C. labiata arrives it will be a good chance for some enterprising orchid grower to invest in a profitable fall bloomer.

Mr. I. Forsterman is cutting some good blooms from a chrysanthemum which is a sport from October Beauty. In color it is a bronzy yellow. Mr. Forsterman has a 200-foot house of chrysanthemums which makes a most promising appearance. He has about 7,000 plants altogether, of which 1,200 are seedlings. One of his seedlings shows finely variegated foliage, which has held constant for a year.

A magnificent bench of Lady Emma carnations cannot be passed by. Mr. Forsterman says that this variety will bear fully one-half as much again in a crop as Portia. It is a very vigorous grower, with sturdy stems. The American Flag is still a favorite in the New York market.

Mr. Ernst Asmus has gone to Lake Megantic on a hunting expedition. Statements as to his intentions vary. It is said by some that he proposes to shoot all the deers in Canada, but others say he will be satisfied if he gets but a pair.

Preparations for the chrysanthemum show go on prosperously. From Mr. W. H. Vanderbilt and Mr. W. Bayard Cutting grand exhibits are promised. Mr. Plumb reports that applications for space are coming in faster each day, and that those intending to exhibit will do well not to delay too long before applying. Several very large exhibits of cacti are promised. Another interesting feature will be a plant potting competition, for which a premium of $100 is offered by Peter Henderson & Co.

Sales at the plant auction the past week have gone about the same as previous reports. Small stuff is not wanted. Large plants bring fair prices. Growers having small palms on hand will do well to hold on to them until spring. Young sold for the Philadelphia growers on October 6. He got good prices and the growers were well satisfied. To-day's sale was not so encouraging.

Mr. James H. Laing, of John Laing & Son, Forest Hill, London, sailed on Sunday, October 11, after a lengthened and most successful tour in the United States and Canada.

Mr. C. L. Doran, the Sixth avenue florist, not contented with the bowling facilities of the New York Florists' Club, is also president of another similar organization, the Acme Bowling Club.

Boston.

The regular monthly meeting of the Gardeners' and Florists' Club was held in the library room of Horticultural Hall on Tuesday evening, October 6.

President J. H. Morton presided, and the new secretary, Elijah A. Wood, filled his position, if not his chair, with becoming dignity. The retiring treasurer, Mr. P. Welch, made his final report, which was very encouraging, and passed over the books and money to his successor, Mr. F. W. Foster, after which he received a vote of thanks from the club, to which he responded briefly. A vote of thanks to the retiring secretary, Mr. J. J. Cunningham, was also passed. The report of the special committee, with resolutions on the death of Mr. W. S. McGregor, was read by Mr. W. J. Stewart. Mr. Sam Coleman reported for the committee on the disposition of the cup won by the bowling team at Toronto, recommending that it be bowled for by all members of the club who wish, on Wednesday afternoon, November 4, the trophy to become the personal property of the individual making the largest score. The recommendations of the committee were adopted. Elijah A. Wood read the report of the committee on annual dinner, and in accordance with the recommendations therein contained it was voted that the dinner take place at the Quincy House on the evening of Wednesday, November 4, which will be the second day of the chrysanthemum show and the same day as the bowling match. A new rule was made requiring the treasurer to read at every meeting all bills contracted during the month. The officers of the club were requested to seek a good investment for the funds now in the treasury, and make a report at the November meeting.

Robert Farquhar, M. H. Norton, P. Welch, and R. T. Lombard were appointed as a committee to procure a charter for the club.

Several new members were admitted and the organization starts in on a new year with most encouraging prospects.

Norton Bros. made a fine decoration at the Hotel Brunswick on the occasion of the Hill-Carney wedding on October 7. The suite of three rooms was superbly decorated with masses of foliage plants and festoons of roses and vines. In the reception room was a bower luxuriantly hung with pendent racemes of lapagerias and scarlet passion flowers. In the middle room the mantel was banked with rich orchids and anthurium flowers in all positions. The bride's bouquet was of Bride roses and the bridesmaids' of Catherine Mermet.

A suburban florist tells a good story of a wealthy lady who came to his place recently with a carriage and pair, and said she wished to arrange to have him make for her a standing column about 18 inches high. After getting him to name the price of the wire frame and moss, she produced a small box which she said contained flowers enough to do the job and proposed to pay him just for the frame, moss, and whatever labor it required to properly arrange the flowers which she had brought. The box contained the following: 5 asters, 2 sprays of feverfew, a dozen sweet peas, 1 white geranium, 6 sprays of partridge vine, 2 rose geranium leaves, and a few bits of heliotrope. The suburban florist declined the job!

Mr. Alfred Dimmock, representing Sander & Co., of England, arrived on October 4, per steamer Scythia, after a very rough passage.

J. Newman & Sons, of 51 Tremont street, have arranged to act as the Boston end of the new Telegraph Delivery Asociation.

Norton Bros. are cutting splendid Gontier buds outside, which are in color and substance far superior to any grown indoors. The rose has proved hardy with them, requiring scarcely any protection in winter.

Mr. J. H. McManus, who has been for many years foreman at Galvin Bros.' store, was married October 7.

Philadelphia.

The regular meeting of the Florists' Club held Tuesday evening, October 6th, was largely attended, and great interest was taken in the proceedings. The Club is increasing in membership rapidly, two new members being elected and five names were presented for action at the next meeting.

Robt. Craig, President, occupied the chair. The committee appointed to prepare designs for the club button exhibited several drawings. Those giving the rose prominence seemed to meet with favor; none was adopted, however, but the committee hope to have a perfect design at the next meeting.

John Leach and H. H. Becker were elected to membership, and G. Howard Schriver, John J. McLean, W. M. Eldridge, James Gibson, George Paulelin and Gustavus Gontram were placed in nomination.

As this was the annual meeting of the club the treasurer's report for the year was read and the finances of the club shown to be in excellent condition. The house committee also presented their report, which showed a healthy state of affairs, as after paying all expenses and buying a pool and billiard table, there was quite a sum turned into the treasury of the club. The auditing committee reported the accounts to be correct and especially commended the officers for the very careful manner in which the books were kept.

Some five dollars was reported to be to the credit of the club in the defunct Keystone Bank. At one time the treasurer kept the club's money in this institution; fortunately for the club, however, the bowling alley was finished a short time before the bank failed, and the money drawn out to pay for it, otherwise it might have lost all, as it is expected that

the depositors will get a very small percentage of their money returned.

A letter was received from Mr. John Thorpe thanking the club for basket of flowers, etc., sent him in Chicago.

The election of officers for the ensuing year then took place, and the following were elected: President, Robert Craig; Vice President, Chas. D. Ball; Treasurer, Thos. Cartledge; Secretary, Henry F. Michel. On taking the chair Mr. Craig made a neat speech accepting the office, and was followed in turn by the others elected.

Mr. Edwin Lonsdale was appointed to prepare an essay on the chrysanthemum to be read at the next meeting.

The president appointed the following gentlemen to serve on house committee for one year: John Westcott, chairman, George Craig, Chas. Kohlert, Geo. Watson and John Nesbit.

Jos. Heacock was now called upon and read an essay on best methods of wholesaling cut flowers. His paper was well received and referred to publication committee. In the discussion which followed Mr. Ely thought the idea of having an exchange or market where buyers and sellers could meet, an excellent one, and quite easy of adoption, as expenses of such a place would not be heavy and the trade greatly benefited. He spoke of markets in Washington, where quantities of flowers were sold. But Mr. Lonsdale here said that the florists of Washington were opposed to the market there, as it was run to catch the retail trade. He would like to see a wholesale market, but would like some other fellow to start it. Mr. Heacock thought that a market such as he proposed should be patronized by the trade only, and that the general public should not be served there, but would have to go to the stores, as they do now. Mr. Kift said that the market question was something of a chestnut, as it had been talked about over and over again ever since the club was organized, and the same conclusion had always been arrived at, namely, that it was the best way cut flowers could be handled wholesale; committees were appointed and added to and urged to do something, but nothing ever came of it, and the only reason he could offer to account for it was that the growers were afraid, and until they got their courage up there would never be a market. Mr. Watson thought the plan a good one, and Horticultural Hall the place to start it in. Mr. Robert Craig said that the large growers in New York were seriously considering some plan other than the one now generally in use for wholesaling their products. One large grower had $10,000 to invest, and it was likely that before long some radical changes would take place. Mr. Geiger thought that the growers only wanted a little encouragement and all would be well, while Mr. Westcott thought the market sure to come, but he could not say just how soon.

After the transaction of some routine business the meeting adjourned.

Cosmos to the right of us, cosmos to the left of us, cosmos in front of us, cosmos everywhere. Two years ago it was a novelty, now it can be bought by the cart load. The street fakirs have their trays piled up with it and it sells for a song.

Trade is picking up a little and valley has moved from 5 to 6 cents. Roses are about the same price as last week, but the quality is getting better. There are not enough American Beauties to go round.

The "mums" have not been heard from as yet; they rarely strike this market until the 15th and it is generally the 25th before they begin to get at all plenty.

Carnations are now plenty and sell well. There is a good variety of colors and the stems are long. They can still be had for $1 a hundred.

We have seen no challenge as yet, but it is generally understood that there is to be a couple of matches between the bowling teams of the New York and Philadelphia Florists' Clubs. There will be a trophy in the shape of a handsome flower vase which will be contributed by the two clubs. The captain of the Philadelphia team has been given power to make all arrangements and in a few days the dates and places for holding the matches will be decided on. The games will be rolled on strange alleys so as to place each club on an equal footing.

At a match between the Chumps and Champions on the club alleys October 8 all match records so far were broken. There were six men on each side and three games were rolled. The total scores were: Champions 2772, Chumps 2556, making an average for each Champion of 154 pins to a game and the Chumps 142. X.

Chicago.

The market took a decided turn last week. The latter part of the week stock of all kinds was really scarce, particularly good roses.

October set in with a perfect rush—in the matrimonial line; there never were so many weddings in society before in one week. This accounts in a measure for the heavy demand for flowers, but then the business in general is much improved and the prospects for a good season seem very bright.

Roses are improving in quality, Mermets in particular begin to show once more clean foliage and good color. Wootons too come better. This rose has been a disappointment so far; there were quantities brought into the market, but they were so small and poor that most of them found their way into the barrel. Gontier, the good old stand-by, is coming to the front again and often has to stand in the breach for something better in the line of red roses. Beauties are not at their best just now, but the demand for this rose is constantly increasing.

Carnations begin to show up better. This popular flower is used more and more extensively every year. Tidal Wave, Portia, Silver Spray, Grace Wilder and Buttercup are the principal varieties in bloom now, the latter (Buttercup) is very scarce and meets with ready sale at fully double the price of any other variety.

Outdoor stuff, such as dahlias, a few asters and gladioluses and some belated sweet peas, are still in the market, but cosmos of all out of door stuff seems to sell the best. This flower is growing to be quite a favorite with flower buyers; large quantities find a ready sale at fairly good prices.

Chrysanthemums make their appearance here and there. A few blooms of Gloriosum sent in by Mr. Rudd, of Mt. Greenwood, were really fine. Bouvardia also is just coming in.

The extreme heat in the latter part of September has hurt the early crop of violets. There is very little prospect for any good flowers before the latter part of October or first of November.

The complete premium list for the fall exhibition of the Horticultural Society has been issued. A large number of valuable special premiums are offered in addition to the generous list announced in the advance sheet, making a total of $2,500. A sweepstakes premium of a silver tea service worth $75 is offered for the most meritorious display in the show, this to be decided by a popular vote, a coupon ballot to be attached to each of the admission tickets. It is believed that this feature will excite considerable interest. A popular vote on the national flower will also be taken, another coupon ballot being added to the ticket for this purpose. A committee has been appointed to label as many as possible of the plants on exhibition. These labels are to be of card board, about 2 by 4 inches, plainly printed or lettered and suspended from the plant in a horizontal position, so that they can be easily read from a short distance. It is believed that this will greatly enhance the educational value of the exhibition. A great many plants and flowers are being grown for the exhibition and the display promises to be very far in advance of anything of the kind yet seen in this city. Mr. Wm. H. Chadwick, the newly elected president of the Hort. Society, is making things hum and the business details of the exhibition are being attended to with gratifying promptness.

At the meeting of the Florist Club last Thursday evening little but routine business was accomplished, except discussion upon the question of judging at the coming exhibition. At the adjourned sessions Mr. A. McAdams raised his record several pegs by rolling up a score of 240. At the next meeting a paper upon the chrysanthemum will be read by Mr. Wm. Kirkham of Maywood.

There has been a slight change in the firm of Felke & Mueller, at Wilmette. Mr. John F. Felke, Jr., has sold his share in the business to John Felke, Sr., and Nicholas P. Mueller. As the change in ownership does not make any change in names the firm style of Felke & Mueller will be retained. The firm has added five more houses, four 18x106 each and one 12x58, three of them for carnations, one for Jacq roses and one for azaleas. This makes a total of 32,000 feet of glass for this firm. They are devoting some little attention to azaleas, and expect to have some very fine plants this season and in considerable quantities.

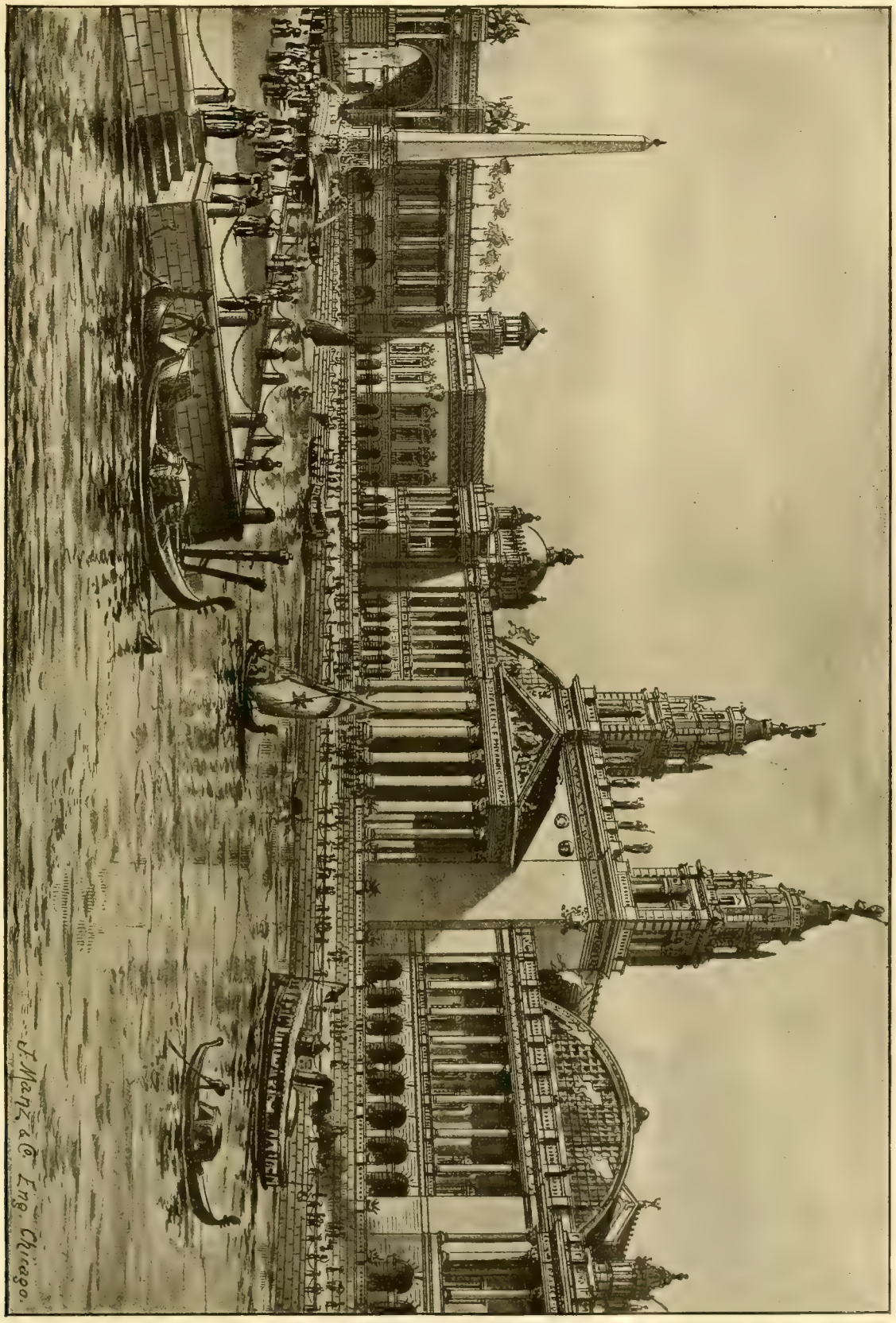
Mr. Geo. Klehm, of Arlington Heights, and Miss Louise Koelling were married last Thursday evening. The floral decorations were very elaborate and the wedding was attended by a large number of Mr. Klehm's friends in the trade, all of whom joined in extending hearty congratulations.

Mr. H. F. Halle has entirely remodeled his place on West Madison street, and it is now one of the handsomest and most convenient retail stores in the city. A conservatory in connection is a very taking feature, and the great show window gives splendid opportunity for the display of decorative plants, which is fully improved by this enterprising young florist, who has built up a splendid business in the last few years.

Among recent visitors to the city were Wm. B. Reed, Chambersburg, Pa.; J. Freytag, Milwaukee; F. B. Wenderoth, New York; A. Ingram, London, England; L. A. Perkins, Kinsman, O.; Button Bros., Lake Geneva, Wis.; J. R. Schrimshaw, Huntsville, Ala.

Machinery Hall at the World's Fair.

The main machinery building measures 850 by 500 feet. It is spanned by three arched trusses, and the interior will present the appearance of three railroad train-



MACHINERY HALL FOR THE WORLD'S COLUMBIAN EXPOSITION AT CHICAGO IN 1893

houses side by side, surrounded on all the four sides by a 50-foot gallery. In each of these three long naves there is to be an elevated traveling crane, running from end to end of the building. These will be useful in moving machinery, and when the Exposition opens platforms will be placed on them and visitors will view from these the entire exhibition at a great saving of tramping.

Shafting for power will be carried on the same posts which support these traveling bridges. Steam power will be used throughout this main building and this steam will be supplied from a main power house adjoining the south side of the building. The exterior towards the stock exhibit and the railroad is to be of the plainest description. On the two sides adjoining the grand court, the exterior will, however, be rich and palatial. All the buildings on this grand plazza are designed with a view to making an effective background for displays of every kind and in order to conform to the general richness of the court are enriched with colonnades and other architectural features.

The design follows classical models throughout, the detail being borrowed from the Rennaisance of Seville and other Spanish towns as being appropriate to a Columbian celebration.

THE AMERICAN FLORIST

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

Los Angeles, Cal., Oct. 27-31—Southern California Hort. Society. H. W Kruckeberg, Sec'y.
San Francisco, Oct. 28 30—California State Floral Society. Emory E Smith, Sec'y, 321 Market St.
New York, Nov. 2-8—Madison Square Garden. J. W. Morrisey, Sec'y.
Hartford, Conn., Nov. 3-5—Hartford Co. Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.
London, Ont., Nov. 3-5—Forest City Florists' and Gardeners' Society. Wm. Gammage, Sec'y, P. O. box 155.
Boston, Nov. 3-6—Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall.
Detroit Mich., Nov. 3-7—Detroit Florists. Robert Flowerday, Sec'y, 460 John R St.
Providence, R. I, Nov. 4-6—Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.
Wooster, O., Nov. 4-6—Wooster Floral Club. W. A. Porter, Sec'y.
Erie, Pa., Nov. 5-7—Erie Chrysanthemum Club. H. Tong, Sec'y.
Bay City, Mich., Nov. 5-11—Bay County Hort. Society. T. J. Cooper, Sec'y, 811 N Water St.
Louisville, Ky, Nov. 9-14—Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
Pittsburg, Nov. 10-12—Pittsburg and Allegheny Florists' and Gardeners' Club G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.
Newport, R. I., Nov 10-12—Newport Hort. Society. John Butler, Sec'y, Berkeley Ave.
Toronto, Ont., Nov. 10-12—Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School Toronto.
New Bedford, Mass., Nov. 10—12—New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.
Washington, D. C., Nov. 10-12—Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St. N. W.
Oshkosh, Wis, Nov. 10-12—Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.
New Britain, Conn., Nov. 10-12—New Britain Hort. Society.
Philadelphia, Nov. 10-13—Penn. Hort. Society. D. D. L. Parson, Sec'y, Horticultural Hall.
Chicago Nov. 10-13—Hort. Society of Chicago. G. L. Grant, Sec'y, 54 La Salle St.
Minneapolis, Minn., Nov 10-13—Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.
Baltimore, Nov. 10-13—Gardeners' Club of Baltimore Henry Bauer, Sec'y, 1875 N. Gay St.
Indianapolis, Nov. 10-14—Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.
Germantown Pa., Nov. 10-14—Germantown Hort. Society. Thos. E. Meehan, Sec'y.
Worcester, Mass., Nov. 11-12—Worcester County Hort. Society. E. W. Lincoln. Sec'y, 5 Oak St.
Galt, Ont., Nov. 11-12—Galt Hort. Society. Thos. Vair, Sec'y.
Montreal, Nov. 11-12—Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.
St. Louis, Nov. 11-13—St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania Ave.
Springfield, Mass., Nov. 11-13—Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St.
Utica, N. Y., Nov. 11-13—Utica Florists' Club. J. C Spencer, Sec'y.
Buffalo, Nov. 12-14—Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.
Syracuse, N. Y., Nov. 17-18—Central New York Hort. Society. H. Youell, Sec'y, 228 Beecher St.
New Orleans, La., Nov. 17-19—New Orleans Hort. Society. Charles Wise, Sec'y, Third and Prytania Sts.
Milwaukee, Wis., Nov. 17-20—Wisconsin Florists' and Gardeners' Club. C. B. Whitnall, Sec'y, 438 Milwaukee St.
St. Paul, Minn., Nov. 17-20—St. Paul Florists. L. G. Venzke, Sec'y, 131 East Sixth St.
New Haven, Conn., Nov. ——— New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 478 Orange St.
Little Rock, Ark., Nov. ——— Little Rock Florists' Club. D. M. Tipton, Sec'y.
Philadelphia, March 29-April 1—Penn. Hort. Society. D. D L. Parson, Sec'y, Horticultural Hall, Broad St.

A HINT TO EXHIBITORS.

Now that the time for exhibitions is on it is well to remember that exhibits of either plants or flowers are not only more interesting, but vastly more instructive to the public when correctly and legibly labelled. Next to seeing the flower itself the people want to know its name. The first question asked by an admirer of a plant or flower is sure to be, "what do you call it?"

Many exhibits, otherwise excellent, lose much of their value through having no names attached, or by having the names so poorly written or so inconveniently placed that they are almost unreadable. An ordinary wooden label stuck in the edge of the flower pot, while it answers every purpose in a greenhouse, is not convenient for the public in an exhibition. It can seldom be read without removing it, it is apt to be dirty and soil the hands, when in a group it is often impossible to reach it and if removed it is very likely to be put back in the wrong pot or placed so carelessly that it will drop out at a touch.

For cut flowers a neat and plainly written card placed in front of the vase with the edge of the vase resting on it just enough to keep it in place will do.

Scientific names are indispensable, but if there is a common name by which a plant is known do not fail to add it, and if the native locality of the plant is designated it will also add to its value. Try it and observe how interesting it will prove to your visitors.

SAN FRANCISCO.—The California State Floral Society announces the following special premiums to be awarded at the coming chrysanthemum show in addition to those already announced: For potted plants, chrysanthemums, $75; for cut blooms, chrysanthemums, $50; for "most artistic floral decoration according to the fancy of the exhibitor," 1st $75, 2nd $25. The exhibition will be held October 28, 29 and 30.

WE DESIRE to call the attention of the managers of exhibitions to the advertisement in this issue of Bunyard's exhibitor, for exhibiting chrysanthemums or other cut flowers to the best advantage. The device has received very favorable comment from those who have inspected it and anything that will add to the effectiveness of the displays at exhibitions is worthy of full consideration.

WHEN sending us small amounts in postage stamps, please select those of the 2-cent denomination.

Catalogues Received.

Charles D. Ball, Holmesburg, Philadelphia, palms, ferns and decorative plants; W. W. Barnard & Co., Chicago, bulbs, seeds, and plants; Thomas S. Ware, Tottenham, London, England, bulbs; same, plants; R. & J. Farquhar & Co., Boston, bulbs, seeds and plants: Fred W. Kelsey, New York, hardy plants; Pitcher & Manda, Short Hills, N. J., bulbs and seeds; same, stove and greenhouse plants; Emil Liebig, Dresden-Blasewitz, Germany, plants; Vilmorin, Andrieux & Co., Paris, France, electrotypes; Weeber & Don, New York, bulbs; Pike & Ellsworth, Jessamine, Fla., Florida flowers and fruits; V. H. Hallock & Son, Queens, N. Y., forcing bulbs; George L. Allen, Leigh, Neb., bulbs; Schlegel & Fottler, Boston, bulbs; F. Knoll, Leipzig-Lindenau, Germany, dried flowers, etc.

Bursting of the Calyx.

What is the cause of the bursting of the calyx?

My reason for asking this question is because sometimes a variety of carnation splits, and sometimes it does not. Two years ago the first flower of a seedling opened, and it was a veritable beauty, distinct and handsome in color, of fine form, and with no sign of the calyx bursting, and it remained in good shape for two weeks. About 25 young plants were raised, and in due time it was placed into its blooming quarters for the winter —last winter. When the first bloom opened the calyx was split, and I believe every flower produced up to the following June had this very serious defect. At this time, when the weather became hotter, the flowers had a less tendency to burst. Now, it puzzles me to account for this. Can some of your readers give a reason for it?

A new variety, sent out for the first time in the spring of '91, has produced a few flowers, and 90 per cent. of them are ruptured. It seems hardly possible that in this age, when we are slowly, but I hope surely, emerging from the darkness which has so long enveloped us, no live man would be guilty of disseminating a variety which he knew had a tendency to burst its calyx. Something in the season, or may be in the soil, caused it. Is it too much moisture? Have we kept them too cool? An interchange of opinions would be interesting to O. P. Q.

Classification of Chrysanthemums.

The classification of chrysanthemums having been placed in my hands by the National Chrysanthemum Society, I have associated with me Mr. A. H. Fewkes, and we would respectfully request the co-operation of, and solicit correspondence with, all chrysanthemum growers and anyone interested in the subject.

It is the intention of the committee to have all the information embodied in the report as authentic as possible. Any communications addressed to Mr. A. H. Fewkes, Newton Highlands, Mass., or myself will be thankfully received and promptly attended to.

ELIJAH A. WOOD.

West Newton, Mass.

Toronto.

October 9, and still there has been only a very slight frost, just enough only to catch the tips of the tenderest coleus. The record of the "oldest inhabitant" does not chronicle anything to equal this.

I mentioned in a former note that the Gardeners' and Florists' Club had adopted the one judge system for their coming chrysanthemum show. There was no difficulty about that; the trouble seems to be to get the one judge who will be suitable. Anyone who amounts to anything seems to have a show on in his own town about that time. However, it is hoped that before the next regular meeting Mr. Chambers, who has the matter in hand, will be able to submit the names of several gentlemen.

Trade very dull, on account of continued mild weather. E.

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Wholesale Markets.

Cut Flowers.

BOSTON, Oct. 12.

Roses, Gontier	1.00
" Niphetos	2 00 @ 3 00
" Perle, Mermet	3.00 @ 4 00
" Bride, La France	4 00 @ 5 00
" American Beauties	15 00 @ 20 00
Carnations	.50 @ .75
Lily of the Valley	4 00
Asters	.50 @ .75
Violets	.50 @ .75
Tuberoses	.50
Pansies	.35
Smilax	10.00 @ 12.00
Asparagus	50.00
Adiantums	1.00

NEW YORK, Oct. 12.

Roses, Bon Silenes	.50 @ 1.00
" Gontiers	1.00 @ 2.00
" Perles, Niphetos	2.00 @ 3.00
" Woottons, Cusins	2.00 @ 3 00
" Mermets, Brides	3 00 @ 4 00
" Watteviles, Hostes	2 00 @ 3.00
" La France, Albany	3 00 @ 6.00
" Beauties	5.00 @ 25.00
Valley	3 00 @ 5 00
Carnations	.50 @ 1 00
Smilax	10.00 @ 15.00
Violets	.50
Adiantums	.50 @ .75
Asparagus	50 00 @ 75 00

PHILADELPHIA, Oct 12.

Roses, Beauties	8 00 @ 15 00
" Mermets, Brides	3 00 @ 4 00
" La France, Albany	3 00 @ 4.00
" Perles, Niphetos	2 00 @ 3.00
" Gontiers	1.50 @ 2 00
Valley	6 00
Carnations	.75 @ 1 00
Bouvardia heliotrope	1.00
Cosmos	.50
Smilax	15.00 @ 20.00
Adiantums	1 00
Violets, single, bunches	3 00 @ 4 00

CHICAGO, Oct. 13.

Roses, Am. Beauties	10.00 @ 12 50
" Wabans, Mermets	3 00 @ 4.00
" La France, Albany	3.00 @ 4 00
" Brides	3.00 @ 4 00
" Wootton	2 00 @ 4.00
" Perle, Niphetos	3 00 @ 4 00
" Gontiers	2.00 @ 2 50
Carnations, long	1.00 @ 1 50
Carnations, short	.50
Smilax	15 00
Adiantums	1.00

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BURNS & RAYNOR,
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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

ONE MASSACHUSETTS grower has harvested 14,000 barrels of Danvers' Yellow onions this season. Not a surprising crop for some of our big western farmers, but pretty creditable for a little corner like Massachusetts, where agriculture was supposed to be on the decline.

THE Harnden Seed Co., of Kansas City, send us four samples of second growth peaches taken from a fruit farm at Olden, Mo. They write under date of October 7: "There are at present writing several hundred trees on this farm which have borne one crop this year and are now bearing a second crop. We thought it quite a novelty for Missouri." The specimens sent were perfect peaches in appearance except that the pit contained no germ and they were very small, not much larger than a hickory-nut. But the flavor was very good, rather nutty in character. They are certainly quite a novelty.

News Notes.

RACINE, WIS.—Florist F. Fountaine will give a chrysanthemum show the first week in November.

FAIRMONT, NEB.—John Rathbun is rebuilding and enlarging his greenhouses and arranging to heat by steam.

DOVER, N. H.—The greenhouses of Henry Johnson were burned October 6. Damage, $5,000; insurance, $4,000.

MEMPHIS, TENN.—Mr. Curry is the latest addition to the ranks of the trade here. He has opened up on Main street.

SALEM, MO.—The South Missouri Fruit Co. has been incorporated with a capital stock of $4,500, a part of the business to be the raising and selling of nursery stock.

MILFORD, MASS.—H. W. Eames & Co. have put in new machinery for the manufacturing of their "twin glazier points" on a large scale and will have the company incorporated.

PHILADELPHIA.—Messrs. Joseph H. and Charles H. Campbell, the retiring members of the old firm of J. H. Campbell & Sons, will engage in the nursery and seed business in southern California, and expect to leave for the west November 1.

ST. PAUL.—The St. Paul florists will hold their first annual chrysanthemum exhibition in November. The exact date will be announced later. L. G. Venzke, 131 East 6th street, is secretary. A. H. Bunde has opened a cut flower store at 24 and 26 Grand Arcade.

MINNEAPOLIS.—Mr. Gust. Malmquist and Miss Louise M. Erickson were married September 19. Among the many presents was a beautiful tea service set presented by the Society of Minnesota Florists, of which Mr. Malmquist has been a most able and efficient secretary for the past two years. Mr. M. has the best wishes of his brother florists.

SYRACUSE, N. Y.—Mr. G. Batholme, for the past eight years head gardener to Mrs. Theo. Dissel, has purchased land on Manlius street, near Woodlawn cemetery, and will start in the florist business and has commenced to build. He is a first-class florist, and has made a host of friends during his residence here and will have best wishes for his success.

MILWAUKEE, WIS.—The premium list for the first exhibition of the Wisconsin Florists' and Gardeners' Club has been issued, and copies may be had on application to the secretary, Mr. C. B. Whitnall, 438 Milwaukee street. The exhibition will be held in L. H. S. Armory, on Broadway, November 17 to 20. Of course chrysanthemum plants and cut flowers will be the main reliance, but premiums for roses and other flowers are offered.

PRESTON, ONT.—The annual exhibition of the Preston Hort. Society, held September 15 to 17, was very successful. In the classes for plants and cut flowers the principal takers of first premiums were as follows: In the plant classes, open to all, A. Common received 5 first premiums; Geo. Brown, Jno. Wells and H. L. Janzen, 2 each; A. Dunn, one. In the cut flower classes, open to all, of the first premiums, C. Probst received 11; H. L. Janzen, 8; H. Evers, 3; L. Koehler, Geo. Brown and A. Common, 2 each; C. Claflin and C. Bierman, 1 each.

SAN FRANCISCO.—The Florists' Club of California succeeded in having the city government impose a tax of $10 a quarter on all street peddlers and war has resulted. The bulk of the street peddlers of flowers here are Italians and they are hot blooded. They have held meetings for the purpose of considering means of getting even with the florists in some way, and threats of bodily harm have even been made. But the idea of any serious result is considered absurd and the police are vigorously enforcing the law and arresting any peddlers who have not paid the license fee.

SITUATIONS, WANTS, FOR SALE

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a first-class propagator, rose and plant grower; strictly temperate; married, one child. PROPAGATOR care Am. Florist.

SITUATION WANTED—By young man in cut flower store; 6 years' experience in florist business. Chicago or the west preferred. Address H D, care American Florist, Chicago.

SITUATION WANTED—By a first-class florist, propagator and landscape gardener. Drawing and laying out of new places a specialty. Address HENRY HELLER, 2219 Larimer St., Denver, Col.

SITUATION WANTED By gardener and florist; single, German; thoroughly experienced. Greenhouses, vegetables, fruit, landscaping, etc. Best references. G F, care American Florist.

SITUATION WANTED—As florist or nurseryman. Can do all kinds of nursery work in all its branches, such as budding and grafting; able to take charge of men; 20 years' experience. Address H M, care American Florist, Chicago.

SITUATION WANTED—By practical gardener and florist; single man; understands propagating and growing roses, stove and greenhouse plants, also vegetables and fruit. References. Address M G, care I. H. Moss, Govanstown, Balto. Co., Md.

SITUATION WANTED—By a young man, single, 25 years of age, as florist and mushroom grower. Have had 10 years' experience in the business, and can give first-class references as to habits, ability, etc. Address H H, care American Florist.

SITUATION WANTED As foreman, propagator and grower of roses and choice stock. First-class designer and decorator, bedding, etc. park or public grounds. Strictly temperate, and capable in any department. ALBA, care American Florist.

SITUATION WANTED—By a thorough practical florist and gardener; fully competent to take charge of a first-class private or commercial place. Roses, carnations and violets a specialty. Age 36. Best references. Address G W, care News Co.'s Store, Elizabeth, N. J.

WANTED—About fifty sashes 3x6, new or second-hand. Give lowest prices. W. MILLER, box 471, Groton, Mass.

WANTED—Second-hand Hitchings, pipe and fittings for house 20x60 or 80 ft. Must be good as new, and cheap. M. J. SCOTT, Roscoe, Ohio.

WANTED—At once, a man good at potting and general work in a greenhouse Address stating wages asked, HANS NIELSON, St. Joseph, Mo.

WANTED—Assistant in commercial place of about 4,000 ft of glass; one who understands growing general greenhouse stock; or will lease to good man. J. R. SHAVER, Charleston, W. Va.

WANTED—Young man, about 25 years of age, for commercial greenhouse work. Wages $20.00 a month and board. Address T V. EVANS, box 325, Riverside, Ill.

WANTED—For our floral department a young man who has had several years' experience in selling and making up cut flowers. Must come well recommended. Apply by letter, stating age and experience. BROWN, THOMSON & CO., Hartford, Conn.

WANTED—An industrious young man—German preferred—with some experience in greenhouse and nursery work; wages $18 a month and board. Steady work for right man, and money will be increased in time. H. KADEN, Gainesville, Texas.

WANTED—Partner with some capital to extend my local and wholesale florist business; two new greenhouses already put up, well stocked, with four acres of good land in a thriving town of 5,000 in gas belt and on three railroads, or will sell. Address K P, care American Florist, Chicago.

FOR SALE—One variegated agave 42 years old, fine large plant. Inquire of MRS. H. W. SHOVE, Woodbury, Conn.

FOR SALE—Greenhouse business at Austin, Ill., cheap. Reason for selling, poor health. Address JOS. SHAW, Austin, Ill.

FOR SALE—Greenhouse establishment in large western city, 12,000 feet glass; fine retail location. Will sell cheap, or give right party chance to go in with small amount of cash. Address, with full particulars and references, BUSINESS, care J. C. Vaughan, box 688, Chicago.

SOUTH.

FRUIT FARM FOR CITY PROPERTY.

A fine 20 acre fruit farm at Terry, Miss., 1,500 bearing peach trees. Good wire fence. Write me with offers. **GEO. GOULD, Villa Ridge, Ill.**

TO GARDENERS AND FLORISTS.

J. C. GOODING, the well-known rose grower, wishes to retire, and will dispose of his greenhouses, all well arranged, heated by steam, about 16,000 feet of glass, dwelling and barn; lot 160x350; good location, within city limits. Cash, half down. Address **1216 Euclid Ave., Cleveland, O.**

MEXICAN ORCHIDS, CACTUS SEEDS.

Our **MR. CARLOS LIEBERT** will remain at his present address, 627 De Kalb Av., Brooklyn, N. Y., eight weeks longer, and will be pleased to receive orders for any of the above stock.

We make shipments direct from our Mexican address, and all our stock is **NEWLY COLLECTED** and in **FINE CONDITION. FOR PRICES** and **PARTICULARS** write him at above address.

FEDERICO PFEIFFER & CO.,

P. O. Box 601. MEXICO CITY, MEXICO.

Mention American Florist.

ORCHIDS.

THE FINEST STOCK IN THE WORLD.

SANDER'S, ST. ALBANS, ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Please mention American Florist.

CATTLEYA PERCIVALIANA.

A fine consignment of this beautiful winter-blooming Cattleya just to hand. Plants have arrived in excellent condition. Also an immense stock of well established Orchids at very low prices. Write for price list.

FREDERICK MAU,

P. O. Box 322. **SOUTH ORANGE, N. J.**

Mention American Florist.

100 FOR $25.00.

Orchids.

BRACKENRIDGE & CO.,

Established 1854. Govanstown, Md.

Mention American Florist.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies, Etc., Etc. For prices examine Wholesale Catalogue.

Address with business card

136 & 138 West 24th Street,

STATION E. NEW YORK.

JAPANESE PLANTS

Trees, Shrubs, Bulbs, Seeds, Etc.

SEND IN YOUR ORDERS NOW, for

Lilium Auratum, Rubrum, Longiflorum, Etc.

Cycas Revoluta at greatly reduced prices.

Camellias in all colors, MAGNOLIAS,

TREE PAEONIES, MAPLES, Etc.

Give us a trial, we can supply you with all Plants and Seeds, and can pack safely to any part of the world.

F. GONZALEZ & CO.,

303 to 312 Wayne St. & Crescent Ave.,

SAN FRANCISCO, CAL.

C. C. ABEL & CO., New York, Agents for

C. G. VAN TUBERGEN, Jr., Florist and Seedsman, Haarlem, Holland.
V. LEMOINE & SON, Florists, New Varieties of Plants a Specialty, Nancy, France.
FRANCIS REBUFA, Roman Hyacinths and other Bulbs, Ollioules, France.
ERNST RIEMSCHNEIDER, Lily of the Valley a Specialty, Hamburg, Germany.
PIERRE SEBIRE & SONS, Nurserymen and Florists, Ussy, France.
G. BENARD, Rose and Nursery stock, Orleans, France.

Catalogues free on application, when received for distribution. All orders for these houses should be addressed to C. C. ABEL & CO.,
15 to 25 WHITEHALL ST., P. O. BOX 920 NEW YORK.

J. A. De Veer,

154 East 34th St., NEW YORK,

Importer and Dealer in

Bulbs, Seeds, Plants

AND FLORISTS' SUPPLIES.

CATALOGUE FREE TO APPLICANTS.

The Cultivation of Mushrooms.

The following standard works will be sent post free on receipt of price:

MUSHROOM CULTURE Robinson. $.50
MUSHROOMS—How to Grow Them. Falconer. 1.35
MUSHROOMS FOR THE MILLION, 16 pages. Free.

JOHN GARDINER & CO.,

Seed and Bulb Growers, Importers and Dealers,

Philadelphia, Pa., U. S. A.

English von Sions,

per 100, $2.00; per 1000, $17.50;
3,000 for $50.00.

SAMPLES MAILED FREE.

W. W. BARNARD & CO.,

6 and 8 North Clark Street, CHICAGO.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN. CONN.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY:

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

FIELD-GROWN

CARNATIONS

L. L. LAMBORN,

$5.00 per hundred.

A. F. PRINCE, - HINCKLEY, ILL.

OVER A MILLION BULBS.

DUTCH HYACINTHS, TULIPS, NARCISSUS, CROCUS, ETC. now in stock.

THE BEST ARE THE CHEAPEST.

A good bulb requires no more space, heat or care than a poor one; our aim is to merit your confidence and trade by supplying only the best. TRY US.

	Per 100	Per 1000
MIXED HYACINTHS, Single or Double, equal quantities Red, White and Blue	$ 2.50	$22.50
MIXED TULIPS, First-class, Single or Double	1.00	7.50
" " Superfine, Single or Double	1.25	10.00
" " Best NAMED SORTS, Single or Double. Solid colors, special for Florists' use	2.00	17.50
MIXED CROCUS, all colors	.25	2.00
FREESIA REFRACTA ALBA (own growth)	1.00	7.50

25 Bulbs at 100 price; 250 Bulbs at 1000 price. For terms of Credit, etc., see our Bulb List, free to all.
FINEST BERLIN LILY OF THE VALLEY PIPS, ready in November, $10 per 100. Write for Special estimates on your wants. OUR FACILITIES ARE UNEXCELLED.

Z. De FOREST ELY & CO.,

Wholesale Importers of Bulbs, 1301 & 1303 Market St., PHILADELPHIA, PA.

HYACINTHS, TULIPS, CROCUS.

LILIUM HARRISII A SPECIALTY.

MUSHROOM * SPAWN.

VEGETABLE AND FLOWER SEEDS for Fall Sowing. ILLUSTRATED CATALOGUES FREE.

Weeber & Don,

(Successors to A. D. Cowan & Co.) SEED MERCHANTS,

114 Chambers St., NEW YORK.

CHRISTMAS ROSES.

THE LARGE WHITE FLOWERING VARIETY.

Orders are now booked for fall delivery. Having the largest home-grown stock in the world, and in splendid condition, I can do them well. Last year the large size produced over seventy flowers. For several years they have given the greatest satisfaction to my customers.

Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
2nd size	14.00	"	115.00	"
3rd size	10.00	"	72.00	"
4th size	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000).	2.50	"	23.00	"

Unknown correspondents are requested to add cash or good European references with the orders Orders can be executed at once. Special prices for bulbs and plants on application.

HERMAN BUDDENBORG, BULB GROWER,

Hillegom, = = Holland.

DRACAENA TERMINALIS,

very fine, 4 and 5-inch pots.

LATANIA BORBONICA,

and many other varieties, in 4, 5 and 6-inch pots.

Prices given on application.

GEO. W. MILLER, 1748 N. Halsted St., **Chicago.**

ROOTED CUTTINGS.

Geraniums,	Fuchsias,
Coleus,	Chrysanthemums.

The best of their kind. Send for price list.

S. B. FIELD, Roselle, N. J.



TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

BULBS.

Send for Price List.

WISCONSIN FLOWER EXCHANGE,

131 Mason Street, Milwaukee, Wis.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10.00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII,

DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots, strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

SMILAX—Last Call.

Only a few thousand left, from 2½-inch pots, equal to ordinary 3-inch, at $1.50 per 100; $12.00 per 1000.

F. A. BALLER, BLOOMINGTON, ILL.

Mention American Florist.

The Nursery Trade.

Census bulletin No. 109, giving a preliminary report prepared by Mr. J. H. Hale, special agent, upon the nursery industry of the United States, has been issued by the Census Bureau at Washington.

From the tabulations in this bulletin it appears that there are in the United States 4,510 nurseries, valued at $41,978,835.80 and occupying 172,806 acres of land, with an invested capital of $52,425,669.51, and giving employment to 45,657 men, 2,279 women and 14,200 animals, using in the propagation and cultivation of trees and plants $990,606.04 worth of implements. Of the acreage in nurseries 95,025.42 were found to be used in growing trees, plants, shrubs and vines of all ages; and the figures, based upon the best estimate of the nurserymen, make the grand total of plants and trees 3,386,855,778, of which 518,016,612 are fruit trees, 685,603,396 grape vines and small fruits, and the balance nut, deciduous and evergreen trees, hardy shrubs and roses. The largest acreage is devoted to the production of apple trees, viz.: 20,232,75 acres, numbering 240,570,666 young trees, giving an average of 11,890 per acre, while the plum, pear and peach have, respectively, 7,826.5, 6,854.25 and 3,357 acres, producing 88,494,367; 77,223,402 and 49,887,894 young trees, or an average of 11,307, 11,266 and 14,861 trees to the acre.

In number of nurseries, acreage and capital invested New York has a strong lead over the other states, she having 530 nurseries containing a total of 24,840 acres, representing a total invested capital of $12,202, 844.50. Illinois comes next in number of nurseries and acreage, having 434 nurseries, containing a total of 17,812 acres; followed closely by Ohio, Pennsylvania and Kansas, with numbers nearly as large.

In total capital invested, after New York comes California with an investment of $4,871,929.48 (though with a less acreage than several other states), then Illinois with $4,778,083.94; Pennsylvania with $4,210,805.50; Ohio with $4,178,518.19, and Missouri with $2,932,473.24. These are all who report an investment of over $2,000,000.

Mr. Hale has compiled a large number of tables of very great interest to the trade from the information secured, and a careful perusal will well repay every nurseryman in the country.

Choice Plants Cheap

JOHN H. LEY,

ANACOSTIA, WASHINGTON, D. C.,

Will be pleased to receive orders for the following plants, (in excellent condition; low price for cash):

	Per Doz.
Dracæna fragrans, 5-in. fit for 7-in. pots	$10.00
" terminalis, 4-in. fit for 5 in. pots	3.00
Areca lutescens, 6-in. fit for 7-in. pots	15.00
Cocos Weddeliana, 5-in	5.00
" " 4-in., extra strong	4.00
Gardenia florida major, large, full, open ground	4.00
" Fortunei, enormous flowers, " "	6.00
Grevillea robusta, 1 ft., 4-inch pots	2.00
" " 2-inch pots	1.00
Padanus utilis, 2 inch pots	2.00

PALMS IN STORE BOXES.

Areca lutescens	$8.00 per 100
Latania borbonica	5.00 "
Cocos Weddeliana	8.00 "
" plumosa	10.00 "

Platycodon grandiflorum, white and blue; Seed just gathered. Pkt. 50 cts.

F. O. B. on Rail, and extra plants to pay express.

PANSIES.

ALL the plants you want up to Dec. 1st. My customers say the finest strain in the market. Try them, they are worth a trial. Price is low, quality considered.

Per 100, 75c.; per 1000, $5.00.

Reduction on large orders.

SMILAX.

THE plants have grown but the price has not. If you are no supplied let me have a chance to fill yo order. Do not delay it too long.

Per 100, $1.50; per 10($12.50.

This is a cash rate.

CARNATIONS AND OTHER STOCK.

My whole plant and attention will be devoted to getting out strictly first-class cuttings of all the new and standard sorts of Carnations at a moderate figure. Large stock of

Lizzie McGowan.

Have also made arrangements to have grown for me a variety of other cuttings. I will make it to your interest to give me your orders. Lists on application.

L. B. 338. **ALBERT M. HERR, LANCASTER, PA.**

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Bouquet Green,

CHINESE NARCISSUS

VAUGHAN'S BOOK for FLORISTS

Tells the whole story for the **FALL of 1891.** Bulbs, Plants, Flower Seeds and Florists' Supplies. New Rose Madam Pierre Guillot, and twenty others. Read our Book for Florists. New Chrysanthemum, Waban and all the rest. Read our Book for Florists. New Canna Madam Crozy, doz. $7.50. **ALL Bulbs** for florists; by **ALL** we mean **ALL** and in **QUANTITY.** International **PANSY** Seed—new crop. We ask careful examination of this "Book for Florists."

J. C. VAUGHAN, box 688, CHICAGO. GREENHOUSES: Western Springs.

CUT—100,000—BLOOMS.

Cosmos and Chrysanthemums,

READY NOW.

COSMOS, bunches of 50 blooms, long stems, buds and foliage, $3.00 per doz. bunches.

CHRYSANTHEMUMS, long stems, good foliage, flowers from 2 to 4-inches across, $2.00 to $5.00 per hundred.

J. L. LOOSE, Alexandria, Va.

PANSIES OF THE BEST STRAINS.

$5 per 1000 by Express; 75 cts. per 100 by Mail. CASH WITH ORDER.

NOTE.—That my Specialties for the coming season are best varieties of

CARNATIONS, COLEUS, GERANIUMS. FIRST-CLASS ROOTED CUTTINGS.

Descriptive Trade List ready in November. Send for it.

ALEX. McBRIDE, - Alplaus, N. Y.

Pelargoniums,

AND VINCAS.

Several hundred fine pot plants of Pelargoniums in 5 and 6-in. pots, $12.50 per 100.

A large stock of Vincas, large plants, at $10.00 per 100, if taken at once.

JOHN C. URIE,

ARGYLE PARK, CHICAGO, ILL.

VIOLETS AND CARNATIONS.

VIOLETS M. LOUISE AND SWANLEY WHITE, fine field grown stock, $5.00 per 100.

CARNATIONS, Grace Wilder $8.00 per 100

" DeGraw & Hinze's White, 5.00 "

Hinze's White rather small, other varieties good medium stock, all healthy.

Primula Chinensis, $4 per 100; P. Obconica, $3 per 100; P. Floribunda, $4 per 100. Send for trade list.

I. N. KRAMER & SON, MARION, IOWA.

50,000 PANSIES.

Plants A No. 1; finest strain in the country. Price, 60c. per 100 by mail; $5.00 per 1000.

Address **GEO. B. WHITEHEAD**

GREEN'S FARMS, CONN.

PANSIES. PANSIES.

200,000 plants of the Jennings strain now ready, 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies A No. 1 in every respect. Large flowering, fine colors and fine stocky plants. Seed 50 cts. and $1.00 per packet.

Marie Louise Violets and Carnations. Send for prices.

ADDRESS **E. B. JENNINGS, Pansy Grower,**

Box 76. SOUTHPORT, CONN.

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
PANSIES	$1.00	$ 5 00
SMILAX, 2½ inch pots	1.50	12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CARNATIONS, field-grown	6.00	

Address **J. G. Burrow,**

FISHKILL N. Y.

CHINESE PRIMULAS.

SINGLE CRIMSON,

PINK, AND WHITE,

2½-inch pots, extra strong, $3 per 100.

JOHN LAURENCE, Harrisburg, Pa.

BULBS BULBS BULBS BULBS

Dutch and French. *Japan and California.* *Home-Grown.* *100 Acres.*

BULBS—For Forcing, for Fall Planting, for Summer Flowering, for Mail, for Catalog Trade, Etc., Etc.

CANNAS, 150 VARIETIES, ALL THE NEW ONES; FULL LIST SENT ON APPLICATION.

STAR 1891	50 cents	NOUTONI	4 cents	MIXED CANNAS,	
MME. CROZY	65 "	HENRI MARTIN	6 "	$3.00 per 100; $20.00 per 1000.	
CHILDSII	12 "	ORNAMENT de GRAND ROUGE	5 "		
EHMANNI	8 "	DISCOLOR, very fine foliage	6 "		
FLAMBOYANT	5 "	JULES CHRETIEN, extra	10 "	NAMED CANNAS,	
CARDINALIS	4 "	ANTONIN CROZY, extra	12 "	our selection, $3.00 per 100.	
ADOLPH WEICK	3 "	ULRICH BRUNNER	10 "		
EMILE LECLARE	4 "	SIMONE, extra	12 "		
GEN. BOULANGER	8 "				

Use these for your trade catalogue and all other trade, they are all fine and very low.

LILIES—A few Scarce and Popular Varieties we carry in Stock, beside all other kinds:

TENUIFOLIUM	12 cents	PARRYII	25 cents	PARDALINUM	9 cents
BROWNII	50 "	COLUMBIANUM	10 "	HARRISII, 7 to 9-in	6 "
WASHINGTONIANUM	9 "	WALLACEII	4 "	LONGIFLORUM, 5 to 7-in	5 "
		HUMBOLDTII	10 "		

AURATUMS, present delivery, 12 cts.; November 15, 8 cts.; January 15 and after, 6 cts.

BULB SPECIALTIES FOR CATALOGS, ETC.

MONTBRETIA CROCOSMIAEFLORA, one of our most beautiful bulbs, $2.00 per 100.

MILLA BIFLORA, BESSERA ELEGANS, CYCLOBOTHRA FLAVA, $3.00 per 100, all home-grown.

SPIDER LILY, 5 CTS. **AMARYLLIS FORMOSSIMA, 4 CTS.**

TUBEROSES—EXCELSIOR PEARL	$9.00 per 1000	EULALIA—VARIEGATED	$5.00 per 100
" VARIEGATED	2.00 per 100	" ZEBRINA	7.00 per 100
" SINGLE FLOWERED	1.75 per 100	" UNIVITTATA	7.00 per 100

Lilium Harrisii, 7 to 9-in., $6.00 per hundred.

PYRETHRUMS, fine plants, Double White, flowers sell for 2 centseach by 100. Price, $15.00 per 100. Double Pink or Rose, $15.00 per 100.

If any year would try the staying qualities of Pyrethrums this one would. But our plants look finer this fall than ever before.

	Per 1000		Per 1000
Mixed Gladioli, for orders up to Dec. 1,	$ 9.00	**Snow White,** -	$16 per 100
Red and Scarlet, - - -	6.00	Brenchleyensis, - - -	$ 6.00
Pink Shades - - -	11.00	La Candeur, - -	$5 per 100
White and Light (For Florists forcing)	$3 per 100, 25.00	Shakespeare, - -	$5 per 100
Light colors, - - -	16.00	The Bride (Colvillei) - - -	10.00

Margaret Carnation Seed, $8.00 per oz.; 1-16 oz. $2.00; trade packet, 25 cts.

STOCKS FOR FLORISTS AND FULL LINE OF FLORISTS' SEEDS READY.

Our list of 600 varieties of Named Gladioli of Novelties, for Catalogues, etc. will be sent on application after Oct 20

V. H. HALLOCK & SON,

Queens, New York.

Indianapolis, Ind.

A very creditable display of plants and cut flowers was made at the recent state fair, by professionals as well as amateurs.

Mrs. Chas. Rieman carried off a good many first premiums on plants, taking 1st on caladiums, cannas, ferns, begonias, etc., also 2nd on bouquets, baskets, funeral designs, also 2nd on newest funeral design; Anthony Wiegand, 1st on palms, group of foliage plants and variegated plants; Bertermann Bros., 2nd on palms, group of foliage plants, cannas, ferns, etc., 1st funeral design, newest funeral design, newest show design, cut flowers, bouquets, baskets, gladiolus and roses, a clean sweep in this class; J. C. Vaughan, Chicago, 2nd on cut gladiolus; John Rieman & Co., 2nd on new show design, 3rd on new funeral design; Frank Saack, 2nd on cut flowers and roses; Chas. Wheatcraft, 1st on hanging baskets, 3rd on cut roses. There were four competitors in the amateur class. Mr. Henry Michel, of Marion, Ind., acted as expert judge.

Mr. G. C. Lange, at one time in business in this city, will start a floral store on Illinois street shortly. W. B.

Influence of Electric Light on the Growth of Plants.

The influence of the electric light on the growth of plants is discussed in the September 25 issue of *Science*, with allusions to Prof. L. H. Bailey's experiments at Cornell University Exp. Station. From this article it would appear his conclusions are not determinate of any positive benefit to plants from the light.

This summer some plants in my office windows have been doing well under the full blaze of a street lamp at the corner, about 75 feet distant. The windows have a north exposure, and get very little sunlight upon them, except by reflection from brick walls and windows on the opposite side of the street. The plants, however, get the benefit of a west wind, which is constantly blowing on them from the valley of the river. Cuttings and seedlings have made a very rapid growth. One ageratum 60 days from planting seed stands 18 inches high, with a full head of bloom. It is, however, delicate, and frequently its leaves wilt after a fall in the temperature of the air. From Sept. 16th to the 27th the temperature was 60° at 6 a. m. and 84° at noon. The seedling has had a full supply of water and fertilizer. As the air at 84° holds twice the amount of moisture it does at 60°, a fall of temperature occasioned a diminution of the supply of moisture to the leaves of the seedling, which soon wilted it. From this illustration I draw the inference that the hygrometer is a desirable instrument to have always in the greenhouse, as from it one may always tell the exact amount of moisture present in the atmosphere, and thus maintain the proper conditions for young plants and cuttings.

The electric light would have more influence upon plants at high temperatures than low temperatures, from the very fact of the difference in the moisture present, and it would seem probable that a variation of temperatures would determine by experiment what temperature is best for lights of a certain candle power. W. C.

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	25 or 50 at 100 rate.	Per 100
Oreodoxa Regia, 3 ft., character leaves, fine		$25.00
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Coffea Arabica, 15–20 inches, pot grown		25.00
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Rose Woodland Margaret, very strong		12.00
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Arch Duke Charles,	Madam Lambard,
Adam,	Marechal Niel,
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and others; EXTRA STRONG; 2 years on own roots; also 1 year buds on Manetti. The largest and best stock we have ever grown.

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$15 per 100; $120 per 1000.

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We have just received from New South Wales, a large consignment of the following Palm Seeds; they are in splendid condition, and some are already germinated. Orders will be filled in strict rotation until stock is exhausted:

	Per 100
ARECA BAUERI	$ 1.50
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We have also a large consignment from Central America, the West Indies, and Keys of South Florida.

	Per 100
ACROCOMIA HAVANENSIS	$ 6.00
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COCOS ALPHONSII	1 75
LATANIA BORBONICA	per lb. 50c.
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THRINAX ARGENTEA	.30
THRINAX PARVIFLORA	.25
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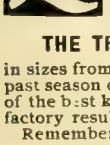
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Primula Sieboldi, only best vars., our selection, strong plants	$7.00	
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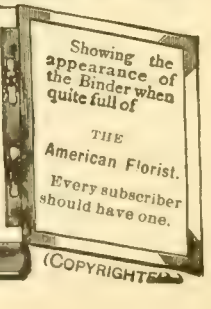
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Buffalo.

Trade received an impetus during the past few weeks. Some wedding decorations were called for, while the call for funeral flowers has been steady.

The supply of roses has been behind the demand, and carnations, which have been plenty, are now sought for. Dahlias have been fine and plenty, and many have been retailed at low prices

No frosts to speak of as yet, good weather prevailing of late. All tender stuff is practically under cover.

A fine Musa ensete on the lawn of an upper Main street resident has made a splendid show the past summer. The pot was sunk in the ground and sodded over. The leaves made a spread of over 12 feet across, and new ones succeeded the old ones as they became ragged from the wind, so a perfect growth was continually seen. The plant attracted much general attention from passers by. Though somewhat expensive to winter over, it would seem that the demand for such specimens would be good in any large city.

Soule & Son, of Hamburg, N. Y., displayed the small white chrysanthemum "Pequoit" in flower at the Erie county fair on September 22. They ascribed recent drouths as a probable cause for this earliness in flowering. Can't our hybridizers coax up a standard class to bloom thus early? It would fill a void between out door and indoor stuff in this locality, and at a season when there is good demand.

Walter Mott, of Philadephia, was the guest of some of the craft here this week.

F. B. Wenderoth, of New York City, read us "sermons" on baskets on Wednesday last.

J. H. Rebstock was East last week. It is currently reported that he bought so many palms that he can make a flower show alone and unaided.

The bell's of St. Luke's church chimed merrily on Wednesday, the 8th, when Wm. J. Palmer, Jr., led to the altar Miss Laura Mark, of this city. A reception was held at the home of the bride's parents.

Much interest and attention is now being given to the forthcoming chrysanthemum show to be held November 12th to 14th. All the details are in the hands of active committees, and the prospects are most encouraging for good results. It has been decided to charge 25 cents admission mornings and evenings, and 50 cents from 1 to 6 each afternoon. Active efforts are also being made to have everything positively ready at hour of opening, and encouraging special attendance on the afternoon of the opening day. An additional orchestra will be engaged for that afternoon, and all hands are expected to contribute in making it a gala occasion, and one that will give the show a good send-off. L. B. D.

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THE IMPERIAL, this style comprises many shapes in best quality gilt Baskets and Jardinieres.

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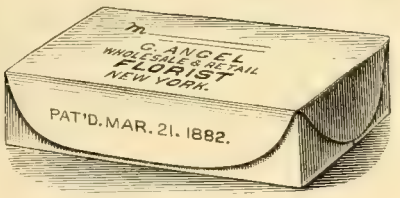
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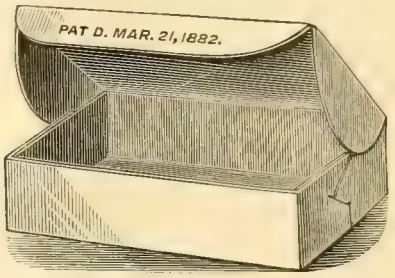
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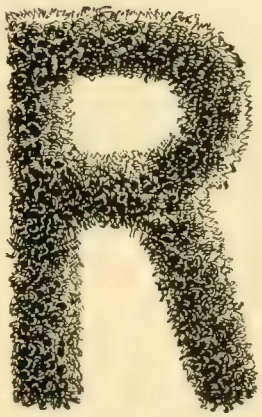
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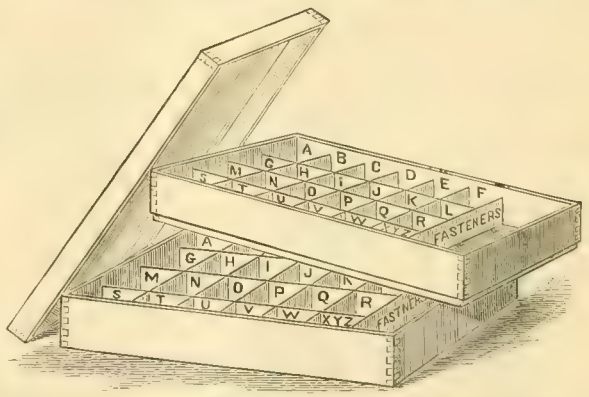
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Washington.

Mr. W. R. Smith estimates the number of visitors to the aquatic display during the blooming of the Victoria regia at fully 40,000.

In the palm house at the Botanic Garden is a plant of Phœnix rupicola, which is supposed to be the largest specimen on the continent. It has been planted in the bed for the purpose of trying to obtain seed.

Out in the garden is a grand bed of azaleas, comprising not only the Ghent and other acknowledged hardy species, but also a large collection of the best named varieties of Indian azaleas, all of which have proved to be perfectly hardy here.

Mr. Smith is enthusiastically supported by his assistant, Mr. G. W. Oliver, in his efforts to popularize aquatic plants.

The sunflower is Mr. Smith's favorite candidate for "national flower." On a recent Sunday trip to Manassas, which your correspondent enjoyed with him, his eye for the beautiful rather got the best of him and he broke into enthusiastic praise of the golden rods along the roadside. Approaching the famous old battle-ground he grew retrospective, and looking out of the car window he exclaimed: "There! there's Bull Run! and do you see that bridge? Well, I once ran from that bridge all the way to Alexandria faster than you ever ran in your life."

London, Ont.

There was a good attendance at the regular meeting of the Florists' and Gardeners' Club on the 5th inst. After the admission of eight new members the principal business taken up was the consideration of a proposal to change the date of the chrysanthemum show. Owing to the continued hot weather chrysanthemums have made such rapid growth the change was considered necessary. And the fact that Thanksgiving day comes on the 5th made the change worthy of consideration. After an animated discussion it was decided to change the dates to November 3, 4, and 5.

There is an abundance of roses and carnations, with little or no demand.

Mr. Lem Cole will add two new houses, each 200x20, for growing tomatoes, making a total of 20,000 feet of glass devoted wholly to tomatoes.

George Rennie, at the Asylum for the Insane, has remodeled and enlarged one house, using drip bars, with 14x28 glass, iron supports and cement walks. G.

Transatlantic Wit

Lady S—— was a member of the D. B. P. A. (Dickey-Bird Protective Association). Early one morning she was strolling around her grounds in Ayrshire, when she happened to see an apprentice gardener throwing a stone at a robin that was picking up the worms from the newly turned up soil. "What do you mean by trying to hurt that poor bird?" said Lady S. Jimmy L., the apprentice, who knew that if he could not give a good answer he would be "sacked," promptly replied, "Please, your ladyship, the bird was a-trampin' doon ma diggin'."

Jimmy kept his place.

SOME FOLIAGE of a variegated Euphorbia heterophylla has been sent us by Mr. A. W. Smith, Americus, Ga. The leaves are broadly margined and blotched with creamy yellow and in the specimens sent the variegation is very marked.

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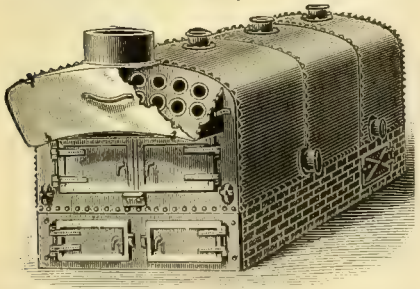
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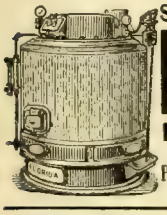
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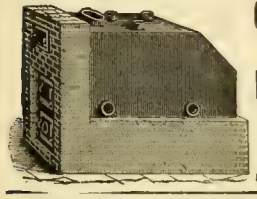
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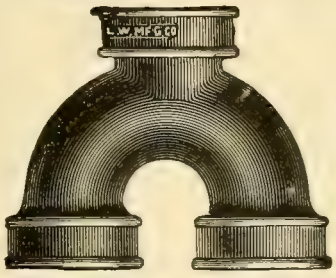


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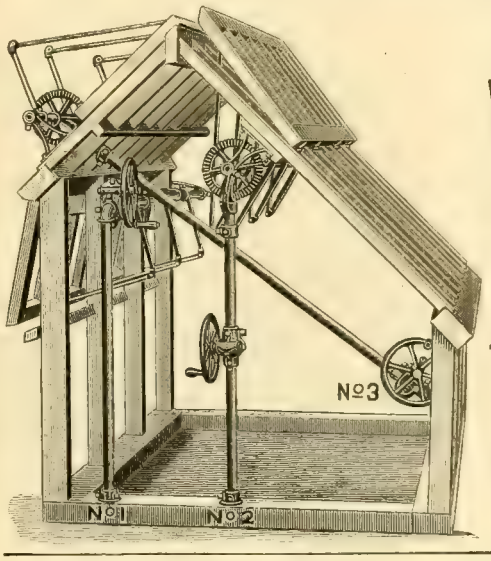
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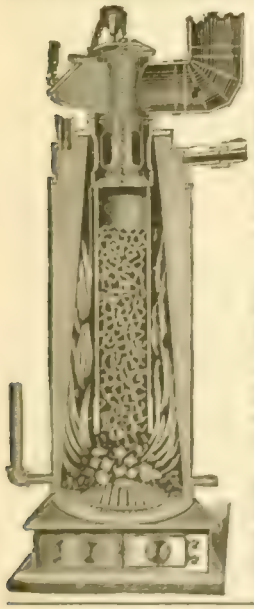
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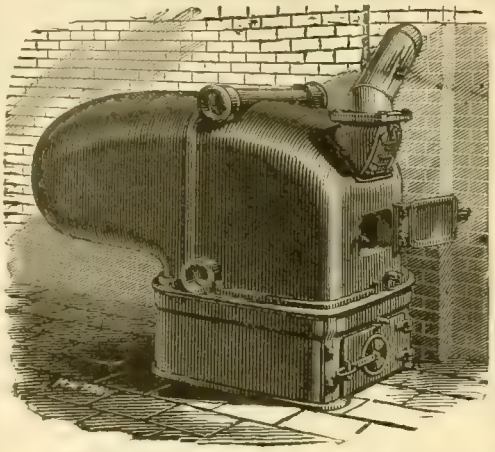
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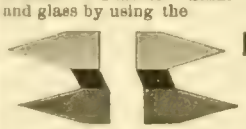


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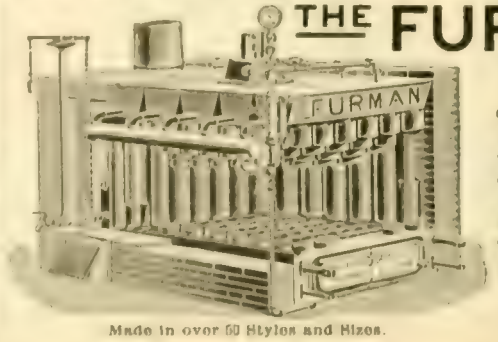
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Vol. VII. **CHICAGO AND NEW YORK, OCTOBER 22, 1891.** **No. 177**

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IF PRINTED MATTER for the coming exhibition is not already in hand lose no time now in getting the work done. Don't wait until the last moment.

YOU CAN give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

Long Island Notes.

BY WM. FALCONER.

COSMOS may be too late for outdoor work in many parts of the country, but with us just now it is splendid outside—in fact, we regard it as indispensable; but to guard against accident in the way of early frost, we always grow some plants in pots to take indoors, if need be.

HELIOTROPE has bigger and finer trusses now than it had in summer, and it is always thus when the nights get long and cool. But the first breath of frost nips it.

TUBEROUS BEGONIAS are excellent for late summer and fall gardening, being continuously in bloom all the time, rain or shine, in the open or in the shade; but to see the blossoms in their utmost purity and loveliness you should now look upon the plants we lifted, potted, and brought indoors for seeding purposes a month or more ago; they are lovely! For cut flowers for shipping, however, they are of no use, but as pot plants in bloom, what have we now that is prettier?

ROSE GERANIUM.—At this time of the year, when flowers are getting scarce in the way of variety, big bunches of rose geranium, always a favorite, come in handy. And if you have a healthy patch of it outdoors, put a temporary frame and sashes over it, and some straw mats in frosty weather, and you can have it in good condition for a month or more yet. The rose geranium is also a capital window plant, and stout, stocky, healthy plants in 5-inch pots make pretty Christmas presents, and for church fairs they always are in demand.

JAPAN ANEMONES are among the loveliest late-blooming hardy perennials we have got, the white sort in particular. They are in their finest form in September and last through October. But dashing wind and rainstorms battering the flowers against each other and to the ground destroy them greatly. On the 12th and 13th of this month we had just such a storm with such an effect. Now if we had had a lot of these anemones in pots and in a cool greenhouse protected from wind and rain, we would have finer blossoms than we could get out of doors and without a blemish, and in quantity in proportion to the number of our plants, till the chrysanthemum season came in.

FOR LARGE hallway decorations, as a change from dahlias and cannas, we now are using large branches of glossy-leaved mahonia studded with late-flowered tritomas.

WHILE CALCEOLARIAS and Chinese primroses will bear a slight frost with seeming impunity, a cineraria, cool-house plant as it is, is as readily injured by frost as is a coleus or balsam; therefore if you still have them out in the cold frames, be very careful about them.

HARDY GLADIOLUS BULBS.—Sandersi and some other kinds of gladioluses are said to be hardy here—that is, to survive our winters in the ground out of doors; indeed, in the case of mixed varieties of gandavensis we often find that lots of them will come up in spring in ground that had been cropped with these gladioluses the previous year, rather emphasizing the plea of hardiness. But don't you rely upon this reputation for hardiness. Curious enough, small bulblets are far hardier in the moist ground than when lifted and dried. Be careful, therefore, that frost does not reach your gladiolus bulbs.

PEELING GLADIOLUS BULBLETS.—Named varieties of gladiolus bulblets are increased true to kind from bulblets only and not from seeds; division of the large corms, too, according to their eyes, is sometimes practiced, but so seldom that we need not now refer to it. Well, have you ever wondered why it is that these hard bulblets make such irregular and little growth the first year after planting? The truth is, their coating is too hard, tough and tight. Our large gladiolus growers peel their bulblets before planting them! This may appear incredible to many, but it is nevertheless a fact and the employes of these large nurseries not only peel bulblets by the dozen in winter, but also bring them home, and they and their families peel them at night by contract, thereby adding to their income. Peeled bulblets grow as much in one year as unpeeled ones grow in two years, and every one of them grows, which is not the case with unpeeled ones. Were it not for this system of peeling the bulblets to induce quick growth, hence quick multiplication, our florists could never get up stock enough of the choice popular kinds to supply the demand.

THE GOLDEN-LEAVED CHINESE PRIMROSE.—I have fine, big, stocky plants of it but every time I go around that way am almost constrained to throw them into the rubbish pile. It isn't a bright yellow like that of a golden bedder coleus at all, but a sickly greenish-yellow hue, whose very presence among a batch of plain green-leaved primroses gives an ill look to all of them.

DOUBLE-WHITE FEVERFEW, cut back end of July, are now in fine bloom again, and very acceptable they are, too, now when out-door blossoms are so scarce.

A CHRYSANTHEMUM SHOW at Flatbush, L. I.—At chrysanthemum time each year Mr. W. Brown opens his extensive gardens to the public, charging an admission fee of 50 cents. The ladies of his family take charge of the flower show, and all monies taken in this way are handed over to some charitable institution. And mark you, it is not after running expenses are paid the balance is given over to the charity. On the contrary, every penny taken is handed

over to the good cause. Last year the proceeds amounted to $1,402, and were given to the Brooklyn Home for Consumptives. This year the exhibition is to be held for the benefit of the building fund of the Home for Destitute Children of Brooklyn. At these exhibitions cut flowers and cake are sold to visitors, but the flowers as sold are cut there and then from the plants, and not brought in from other sources to be sold over again. Now, the question arises, what is the effect of a private show of this kind upon the business of the commercial florist? Let Mr. Gus Bennett, the head gardener, answer: "It increases the taste and desire for flowers. I know our people are more enthusiastic in the greenhouses and in the flowers than ever before, and I myself take a greater interest in them. And it does not interfere against the florist business in any way. Indeed, I know people who bought flowers here at our show that never before would spend a cent for flowers, and they now go to the dealers and get a few flowers for their table right along." And Mr. Bennett ought to know, for he himself was brought up in the commercial business, and a few rods distant his father's estate is running one of the principal trade places in Flatbush.

Useful Plants.

EURYA LATIFOLIA VAR.—Though by no means a new plant, the subject under consideration has not yet become a very common one, while its handsome foliage and good habit entitle it to a much more prominent place among available foliage plants for decorations. Eurya latifolia var. has also the additional merit of not requiring any great degree of heat in order to keep it in good condition, as it flourishes in a temperature of 45° to 55°. This plant is of shrubby habit and may be readily grown in pyramidal form if preferred, the leaves being somewhat similar to those of a camellia, but smaller in size and handsomely variegated with yellow, the tips of the shoots frequently being reddish. Propagation is not specially difficult and is effected by means of cuttings made from half-ripened shoots and kept moderately close for a time after they are put in, as when the cuttings are allowed to flag after putting in they do not readily recover. A light well drained soil is most suitable, and to induce stocky growth plenty of light should be given.

AUCUBA JAPONICA is another useful plant to the decorating florist and will stand much abuse without great injury, though it may be stated in passing that it hardly pays to try how much abuse a plant will stand. The aucubas also are very readily propagated and young plants will make good progress when planted out for the summer, and those not large enough for use the first winter may be heeled in in a warm frame in readiness for replanting the following season. Large plants of this species will of course be more effective in a decoration if they are well supplied with berries, the bright red of the latter adding much to the attractiveness of the plants, and in order to secure a good crop of berries it is best to secure a few plants of the male variety for the purpose of fertilization.

COPROSMA BAUERIANA VAR.—This is another rather old-fashioned plant, but a very pretty one, the ovate leaves of which are from one to two inches in length, glossy and dark green with an irregular border of yellowish white. Coprosma Baueriana var. is a hard-wooded shrub of moderate growth and is prettiest in a small state, one disadvantage being the fact that it is not one of the easiest plants to root, the cuttings having an unfortunate habit of damping off unless handled carefully. The most suitable wood for cuttings of the coprosma is found in short young growths, these being taken off with a heel and planted in a warm house, care being taken to keep the cuttings fresh without much watering.

PITTOSPORUM TOBIRA VAR. is a half-hardy shrub that might find more extended use among decorative stock, its leathery ovate leaves being more or less variegated with white, and while the variegation is not specially brilliant, yet the plant is neat in habit and attractive in appearance and is not greatly affected by sudden changes of temperature. Also propagated by cuttings, the latter being made from firm young shoots.

RHAPHIOLEPIS OVATA is still another half-hardy shrub that might prove its utility in the hands of a judicious decorator. It is rather dwarf in habit and not of extremely rapid growth, the leaves being broadly ovate in form and very dark green in color. The flowers of this shrub are quite pretty and produced in small clusters, the color varying from pure white to various shades of pink and are followed by black berries about the size of peas. In regard to soil this plant is not fastidious, almost any good light compost being suitable, and the propagation of rhaphiolepis is most easily accomplished from seeds which germinate readily and also make prettier plants than those from cuttings. Rhaphiolepis may also be kept in a frame, for a slight frost will do them no harm, the leaves being so tough and hard that they are not easily injured.

W. H. TAPLIN.

Holmesburg, Pa.



Seasonable Notes.

A few early kinds are now to be seen in Chicago of more than ordinary merit, but I regret to say even among these few varieties there are several wrongly labelled—for instance, I saw a few nice plants of M. E. Nichols labelled Mrs. Norman Davis. Now everybody should know that Mrs. N. Davis is a late incurved yellow Chinese. Then again I saw Harvest Queen labelled Mont Blanc. Mont Blanc is a very late variety.

About this time last year I advised the use of a blue lead pencil to O K all stock plants before being set aside for propagation. It is so little trouble to have with you a good descriptive catalogue for reference interleaved with blank paper to make notes on and to decide how many stock plants of each kind are to be kept. This applies to all growers, but more particularly to smaller growers who carry a list of 20 to 50 sorts.

According to reports chrysanthemums that were out of doors during the late hot spell are decidedly backward and many of the early kinds are not even showing color at this date, whereas those plants that have been under glass all the season are about in their normal condition. It would seem by this that to control chrysanthemums indoor cultivation is the best and safest method.

The interest in the "Queen" is even greater than last year and we hear daily of what is to be expected at the different exhibitions, and if half we hear proves true why then the carnival of 1891 will far eclipse any of its predecessors.

JOHN THORPE.

Nymphæa Sturtevantii.

This nymphæa originated with Mr. Sturtevant of Los Angeles, Cal., whose name it bears. In the Bartholdi fountain basin at the Botanic Garden in Washington during the past summer this grand lily has borne some immense blooms. The color of the flower is a bright rosy red but varies with the weather. This nymphæa is not a free bloomer as Nicholson states, but rather the reverse. It is a very robust grower having large leaves of a brownish metallic hue, quite distinct from any other species. About the end of February in order to secure a long season of bloom the bulbs of this variety should be started in water with a temperature of at least 60° F.; by the middle of May the plants will have attained a fair size, when they should be placed in their summer quarters. The soil should consist of loam and decomposed stable or cow manure in equal quantities. The crown of the plant when fixed for summer should be at least 18 inches beneath the surface of the water.

Vaporizing Tobacco for Killing Green-Fly, Etc.

For several years we have been treated to some articles relating to this subject. I have read all that have come within my notice with considerable interest, and have tried most of them in the manner advocated but failed to make a success of it till last winter. Having a power boiler here we attached a pipe to the same and run it through the shed connecting with each house as we passed through, putting two half inch valves with a nipple on each at about 50 feet apart in each of the houses. When green-fly shows itself we put about two and a half to three gallons of tobacco juice into two vessels—we use small tubs, placing one to each outlet—and when we have steam enough generated we turn it into the tubs through a short piece of steam hose having a jet of one quarter inch pipe fastened into the end. This carries the steam to the bottom of the vessel having the juice in, which quickly sets the whole to boiling. We put a hand full of stems into the tubs before turning on the steam, otherwise it would quickly boil over and defeat the object in view, it being required to boil quite rapidly to evaporate all the juice; it fills the house with a dense vapor, smelling more powerful than pleasant. This after various trials we find the simplest way of applying it, and generally two applications on two days following will destroy all the fly, and up to this writing I have not found the most delicate flower injured by it.

The most important part of the program of course is the juice and to get it of uniform strength, this of course before it is generally adopted will certainly be necessary, as, like all other things, it can very easily be overdone. If some of our manufacturers would make it cheap



NYMPHÆA STURTEVANTII

enough it would be a great saving to growers who can use it, as the bother of making it one's self would then be avoided and a uniform strength assured.

Some are using it in pans placed near a steam jet, by simply keeping a lot of stems in water, laying for some time before applying the steam. This method, while it may be made to answer the purpose very well, has some disadvantages, because the strength not being at all even it will be a little uncertain how much or how little to apply, besides often it is not advisable to have any more moisture than possible in the houses, and with a weak solution it would be necessary to evaporate a much larger quantity to get the desired amount of nicotine diffused through the houses.

Those having their houses heated with steam already can adopt this plan with

very small cost, and it certainly will give them a great deal of satisfaction, and, what is interesting to many, save considerable expense each year.

Summit, N. J. JOHN N. MAY.



Carnation Notes.

Early in September I had the pleasure of a day spent in part of that section of Chester county known as the "carnation belt." The day was all that could be desired, and my companion was that thorough artist and gentleman, Mr. H. H. Battles.

Mr. W. R. Shelmire's was the first place visited, which is located on the other side of the railroad track from the station at Avondale. Mr. Shelmire was busy getting in soil for his carnations. He spoke with confidence about his new one which he has named "Henry M. Stanley." It is a sport from Buttercup. In color and marking it is of the "Sunrise" type, but brighter. The most remarkable freak of nature that has ever come under my notice is that the blooms of this sport are fragrant, whereas the Buttercup, its parent, is not. Very few of Mr. Shelmire's carnations were in bloom. The running out of varieties was referred to during our conversation. Old La Purite was about the strongest grower he had among his whole collection.

Mr. Shelmire very thoughtfully telephoned to Mr. Charles T. Starr, who is located a mile or so out of the town. Mr. Starr shortly afterwards arrived with his carriage, when we had a very pleasant drive to his home.

Mr. Starr is favorably impressed with his seedling, W. F. Dreer. It is a healthy grower, and the flower is large and of good shape. The color is pink, lighter than Century—one of its parents—and darker than Grace Wilder. All his plants were in the best of health apparently, and he had about 30,000 planted out all told, 20,000 of which he uses in his own houses.

It was a noticeable fact that the plants were not nearly so large, either here or at any of the other places visited that day, as they are in and about the city of Philadelphia, *nor was the mortality so great.* The plants evidently do not grow as freely in the soil thereabouts as they do in the Quaker City. They have a sort of semi-ripened look. The soil is of an entirely different character, both in looks and in the absence or the presence of some ingredient which suits the carnation. The plants are set out in the field one foot apart each way, in direct straight lines; in this way they are quite conveniently cultivated both ways with a wheel hoe. Space is thereby economized and the plants have all the room needed.

We next visited Mr. William Swayne. We found him busy planting. Neither Mr. Starr nor Mr. Shelmire had commenced to plant. Mr. Swayne deplored the fact that Buttercup was losing vitality. It does not grow well outdoors any more. If the plants remained healthy outside in summer heretofore, they had done satisfactorily when taken inside, but he seemed doubtful about the plants on hand doing well. All his other varieties were in good condition.

Mr. Edward Swayne was our next victim. We found him also planting. He is quite proud of his seedling, which he has named Aurora. It is a pink variety, and it will, we hope, be heard of favorably the coming winter. There were no flowers open. The plants presented a very healthy, stocky appearance. Mr. Swayne informed us that last winter he cut nearly 200 flowers from one plant. That speaks well for its free-blooming qualities.

We were next taken another enjoyable drive, this time to meet and become acquainted with Mr. C. F. Pennock. Mr. Pennock has recently purchased the stock of the Mammoth Pearl, a new variety which promises to give large flowers on good long stems.

Mr. Pennock, and, indeed, all the Chester county carnation men, were enthusiastic about the American Carnation Society.

In conclusion, Mr. Battles and myself enjoyed ourselves immensely.

Philadelphia. EDWIN LONSDALE.

The American Carnation Society.

The American Carnation Society was organized very auspiciously in Philadelphia October 15 at Horticultural Hall. The meeting was called to order by Mr. C. F. Evans. About 50 names were placed on the roll of membership.

Officers were elected as follows: President, Edwin Lonsdale; Vice-President, William Swayne; Treasurer, C. W. Ward, E. Moriches, N. Y.; Secretary, C. J. Pennock, Kennett Square, Pa. Robert Craig, R. T. Lombard, Wayland, Mass., and James Hancock, Grand Haven, Mich., acting in conjunction with the elected officers constitute the executive committee.

Vice-presidents for the different sections were elected as follows: New England States, Benjamin Grey, Malden, Mass.; Middle States, William Scott, Buffalo, N. Y.; Southern States, Benjamin Durfee, Washington, D. C.; Western States, E. G. Hill, Richmond, Ind; Northwestern States, R. J. Mendenhall, Minneapolis, Minn.; Pacific States, C. J. Haettel, Redondo Beach, Los Angeles Co., Cal.; Canada, to be appointed.

The aims and objects of the society are to improve the carnation in every possible way. By encouragement to make displays of flowers of exceptional merit at all exhibitions—fall, spring and at the chrysanthemum shows.

It was proposed to hold an exhibition at some point where eastern and western growers of seedlings could conveniently send their flowers for examination, to be reported upon by competent judges. Pittsburg was named as being an excellent point for such a purpose.

It was also proposed that the executive committee appoint what should be known as the test committee, this to be composed of successful carnation growers located in different sections of the country. The vice-presidents might well be selected for this purpose, to whom, say at least three plants of any new variety be submitted for trial before dissemination, and for each member of the committee to send a written report to the secretary as to its behavior, who when all were received would lay them before the executive committee for final action. Certificates to be awarded according to merit. In this way it would be a difficult matter to get a poor variety on the market. This is one way to raise the standard higher.

The meeting adjourned to meet again during the week of the New York chrysanthemum show. If we are not mistaken Friday November 6 is the day set aside for the contest for a silver cup, value $25, for the best 12 flowers of any new variety not before exhibited. The day of meeting will be fixed shortly, which will be announced in due time.

Any person interested wishing to become a member can do so by sending in his name and address to the secretary, Mr. Pennock, or the treasurer, Mr. Ward, or to any of the other officers. The dues are $2 a year.

There was a fine collection of carnations at the meeting. Mr. Chitty had a dozen or more varieties, among which were beautiful Lizzie McGowans and Dawn. Everybody present expressed the opinion that they had never seen such fine blooms of this variety before. The regret is that it does not succeed more generally than it does. It certainly, as shown on this occasion, would command the admiration of all flower buyers. Tidal Wave was good, so also were Lamborn and Grace Wilder. The latter variety when seen at its best as it was here, is very hard to beat. Edward Swayne had his Aurora here; it is a light pink sort more delicate than Grace Wilder. This variety is not for sale yet. A. M. Herr, of Lancaster, brought Simmons' Daybreak, which attracted a great deal of favorable comment.

A committee was appointed to examine these flowers, but the meeting adjourned before they had completed their labors. The committee was composed of such practical handlers of flowers as John Westcott, Robert Kift and H. H. Battles, who will make an intelligent report and in due course it will appear in these columns.

Your reporter failed to make notes or he would have given a more extended notice than he is able to do under the circumstances. I remember seeing some fine seedlings of John McGowan's; and a crimson sport of Century. This was exhibited by C. Eisele.

Mr. Robert Craig started quite an interesting discussion on the question of soil best to use for carnations. Many cultivators claim that they had used the same soil year after year with excellent results, while others said that they have never yet dared to try the experiment. One member said that he had tried it once, but before the winter was over he wished he had not. The general opinion expressed was that there is no necessity to use fresh compost as is done for roses. Old rose soil, or rather soil which had been used for roses, was highly recommended by some as being really in better condition for carnations than the composted sods which is often used. Other interesting subjects were touched upon, and nearly every member present had something to say on one or more of the questions presented.

The young society shows lots of vitality and there is no doubt that it will effect an endless amount of good. We wish it success.

Victoria Regia.

The accompanying illustration shows a specimen of the Victoria regia in the conservatory of the Allegheny City Parks, with one leaf turned over so that the structure of the underside of the leaf may be seen. The ability of the leaves to uphold very material weights is explained when the strength of their framework is noted.



VICTORIA REGIA WITH A LEAF TURNED OVER TO SHOW STRUCTURE OF THE UNDER SIDE.

Aquatic Plants.

Mr. Wm. Tricker is one of the most enthusiastic and successful growers of aquatics in the vicinity of New York. The announcement that he was to read a paper on his favorite subject was no doubt one of the chief causes of the large number present at the October meeting of the New York Florists' Club.

Mr. Tricker first called attention to several vases of nymphæas which he had brought, stating that they were all of the night blooming kinds and apologizing for their size and appearance on account of the chilly weather, but the verdict of the audience was that they required no apology.

Continuing, he said that water lilies are essentially summer and early fall flowering plants. Near the middle of October is pretty late to look for good blooms, as the temperature is so low and the sunshine so much diminished. Pond lilies have always been great favorites. The youngsters search largely for them in the spring time and the peddlers in the street sell them in enormous quantities. With the exception of Boston there is no flower market where pond lilies are regularly quoted in the market reports. Here in New York to most people the fact that our pond lily is wild is against its adoption as a fashionable flower. But the moment you call it nymphæa instead of pond lily you elevate it and it no longer is too common.

The Cape Cod pink pond lily is the grandest of all our hardy aquatic acquisitions. There are other varieties of the Nymphæa odorata that are also well deserving and that only require to be known to be appreciated, such as odorata superba, o. carnea, o. sulphurea and others. These and also some European varieties are perfectly hardy and are the earliest flowering aquatics. Next in order are the nelumbiums. The Egyptian and Japanese species are the best of all. For cut flowers and as decorative plants for ponds and basins their gorgeous flowers and bold massive leaves are admirable. Later on come the Nymphæa Zanzibarensis in many varieties and the various night blooming kinds. The number of night flowering varieties is small, but valuable additions to the list may be expected. The height of their bloom comes in the latter part of August and September in this latitude.

Mr. Tricker called the attention of his audience to the elaborate use of aquatic plants at Newport and Chicago and their charming effectiveness as decorative plants at these places, also to the prominence given to them at the recent Horticultural Exhibition at Boston and reminded them that New York cannot afford, having lost the World's Fair, to also lose her reputation as the leading florists' market in the United States.

As to the value of aquatics to retail florists he said he could not speak practically. To grow nymphæas for the market he recommended that odorata varieties be planted in tanks with some arrangement to protect them from severe weather in early spring, and by this means the flowers could be obtained as early as April without artificial heat. Other kinds might be grown in tubs, but in tubs the night blooming kinds being naturally large growing varieties would be cramped for room and would throw much smaller leaves and flowers than where planted out. Planted out he has had some flowers measuring nearly a foot across. In a tank with a hot water pipe run through it and glass protection the time of flowering can be considerably prolonged. A tank two feet in depth will be sufficient. They should be planted in a compost of half soil and half rotten manure.

In answer to enquiries Mr. Tricker said that it was immaterial what kind of manure was used, only the richer the better.

Mr. Nash called his attention to Nelumbium luteum which he had omitted from his list. Mr. Tricker replied that the Japanese nelumbiums are very slow and very shy to flower, and that he would recommend N. speciosum as much the best.

New York.

The annual meeting for election of officers of the N. Y. Florists' Bowling Club was held on the afternoon of October 12. All the old officers were re-elected. The challenge from the bowling team of the Philadelphia Florist Club to meet them and compete for a trophy at the time of the chrysanthemum shows was accepted. Several new members were admitted, including some private gardeners who appear to be getting as deeply interested in the club as are the commercial men.

The meeting of the New York Florists' Club on the evening of October 12 was the largest and most enthusiastic they have had for many a day, and was a genuine surprise to those who have been aware of the slimness of some of the recent meetings. It was very amusing to see the astonished look on the faces of the late comers when they appeared at the door and saw the crowded condition of the hall. On the president's table were some vases of handsome night flowering nymphæas brought by Mr. Wm. Tricker, who was to read a paper on aquatic plants. The specimens shown included N. dentata, N. Devoniensis, N. rubra and N. Lotus. A beautiful collection of outdoor grown tuberous begonia flowers was shown by Mr. T. Griffin.

Mr. Jas. Dean read a report of progress on behalf of the committee on the coming Madison Square Garden Exhibition. He spoke in commendation of the efforts and earnestness of the Garden managers and predicted a success, the equal of which has never been seen in this country. Mr. Dean's report was supplemented by remarks by Mr. Wm. Plumb, who said that in his work as manager he had found everybody enthusiastic and ready to help, and urged the club collectively and individually to do all in their power to support the committee in their efforts. He was followed by Mr. J. N. May, who made remarks in a similar vein, and on motion of Mr. Cottam a vote of thanks was extended to the committee.

Mr. P. O'Mara, being called upon, explained the general terms of the proposed potting contest. There will probably be three prizes of $50, $30 and $20, and the competition will come off at stated hours on the afternoon and evening of each day during the exhibition. Charlie Weathered will provide the potting bench and Peter Henderson & Co. the pots and soil; 2-inch pots will be used.

The nomination of officers for the ensuing year being in order Messrs. Jas. Dean, W. A. Manda and J. H. Taylor were nominated for president. The two last named gentlemen withdrew their names in favor of Mr. Dean, who being called upon responded with a brief speech of thanks. Theodore Roehrs was named for vice-president amid great applause, and C. B. Weathered and John Young were re-nominated as treasurer and secretary respectively. For trustees two tickets were nominated, one containing the names of the old board and the other one Messrs. W. A. Manda, H. A. Siebrecht, W. Plumb, S. C. Nash, J. Roehrs and P. O'Mara (and not Mr. Asmus as given in last issue). The election will take place at the December meeting.

Mr. Wm. Tricker then read his paper on "Aquatic Plants," a synopsis of which will be found in another column. The essay was well received and was accorded a unanimous vote of thanks.

The names of eight applicants for membership who had been nominated at the previous meeting, were presented and

elected accordingly. Twelve more applications for membership were also handed in. Among the visitors present were R. C. Patterson, S. McClemens and J. W. Elliott, all of Pittsburg. Mr. Patterson, being called upon, made a few remarks in compliment to the enthusiastic meeting, and Mr. Elliott did likewise. After a few words from Pres. Burns expressing his pleasure at seeing so large an attendance and from President-elect Dean advising the chrysanthemum growers to keep their eye on the weather, the meeting adjourned.

The plant auctions still continue, but consignments of fine palms are growing less and the sales will soon be confined to dormant stock. A recent sale of Ficus elastica in various sizes was quite disappointing in its financial results. Pandanus utilis is getting scarce.

At the orchid house of Mr. Hicks Arnold there are several rare things in bloom now. Lælia Perrini alba, pure white, and L. Perrini nivea with white sepals and pink lip, are both in beautiful flower. Also a splendid variety of the old Cattleya labiata and Cypripedium reticulata. This cypripedium resembles C. longiflorum somewhat. The flowers are of a beautiful pea green color and are borne several on one stem.

Ed. Jansen says he will never publish any more catalogues for his "wicked competitors to steal cuts from!" His faithful little right bower, Wenderoth, has just got in from the west where he reports trade as being in a hopeful state.

D. H. Roberts will exhibit samples of his glass at the Madison Square Exhibition.

ON THE LONG ISLAND SIDE.

At I. Forstermann's there are some fine Mme. Des Grange chrysanthemums in bloom now, also October Beauty in quantity. Carnations are looking well here, especially a house of Lady Emma, which is quite popular in the cut flower market and brings 25c more per 100 than Portia. The Harrisii lilies are looking well and some of them will be in bloom by November 20. Mr. Forsterman is getting up quite a stock of Phrynium variegatum which he predicts has a bright future as a house decorative plant. Another fine plant which he asserts will be valuable for decorative purposes as soon as it is more plenty and cheaper is Dracæna Neo-Caledonica. Its foliage is very broad and massive. His Dracæna terminalis are particularly well colored. He claims that the bright color is mainly due to his method of always growing the plants on a hotbed in the greenhouse. He still has faith in the palm industry, and has 40,000 seed planted, mostly arecas and latanias. One would naturally look for orchids here also. They are to be seen suspended all along the roofs of the houses. Since they are expected to return a fair profit on their keeping they consist mainly of Cattleya Trianæ and look very healthy and promising.

ON THE JERSEY SIDE.

At Summit Mr. J. N. May is growing about his usual assortment for the winter trade, the only new things here in quantity being roses Waban and Madame Pierre Guillot. The latter Mr. May has great confidence in as a future standard cut flower market rose. The Waban has up to date proved somewhat disappointing very many of the buds coming one-sided, a peculiarity which no one seems to be able to explain satisfactorily. It shows also a strong tendency to mildew with Mr. May, being more affected at present with that trouble than any other rose on the place. A new rose now in its second year of blooming which Mr. May has considerable confidence in is a hybrid between American Beauty and Souv. d'un Ami. In color it is midway between its parents, the foliage is very heavy, the stem erect and strong. It is exceedingly floriferous, the buds being somewhat similar to those of the Bennett, but slightly more globular and in fragrance unsurpassed.

A peculiar feature in the American Beauty this season as noted by Mr. May is the tendency of the early growths to "go blind." He has never before had that trouble to such an extent so early in the year. This is one of the few places where the Bennett always does well. The soil seems to suit it, and in stem, foliage and bud it is all that could be desired.

Mr. May has a lot of good chrysanthemums which are beginning to show some fine specimen blooms. He finds a good many blind shoots on the Ada Spaulding.

At Pitcher & Manda's preparations are going on vigorously for their chrysanthemum exhibition which will be held at the greenhouses during the last week of October. The range of seven big new houses is filled completely with chrysanthemums. One house is full of specimen plants which will make of themselves a grand show. There are 2,500 of this year's seedlings, some of which are already in bloom and promise good results. All seedlings at this establishment are tried two years before being sent out. Of last year's lot there are a number of grand varieties, including Hicks Arnold, old gold, Miss Colegate, a pure white from Mrs. Hardy, Harry May, Mrs. W. S. Kimball, Dr. Mandeville, Mrs. E. D. Cutting and the Improved Mrs. Alpheus Hardy.

At Madison all the growers are going heavily into American Beauty. Scarcely a Perle is to be seen anywhere in the vicinity and it is a question where all the yellow roses required for the New York market this year are to come from. At T. J. Slaughter's there is a 300-foot house of American Beauty with Mme. Cusin along the front bench. Among the Cusins is one section of the "Climbing Cusin" which has achieved fame in Madison for the energy it displays in producing vigorous shoots 5 to 6 feet long without a sign of a flower and which is used by some of the growers to pay up old scores and get even with their competitors, to whom they sell it as the true Cusin. At Slaughter's as well as several other places upright galvanized iron wires have been adopted this year as a substitute for cane stakes with satisfactory results so far.

At W. H. Ryan's, Madison, the roses are looking finely, also at L. M. Noe's. In both these places the American Beauty seems to be the leading rose. Madame Cusin is showing unusually bright color all around, but it is said that it sells better in the cut flower market when not so dark.

Philadelphia.

Business is getting better; good flowers are scarce and prices are moving upwards. Gontiers are $2, Perles, Niphetos, Watteviles, Cusins, Hostes, Sunsets, and Bennetts $3, while Mermets, La France, Albanys and Brides bring from $4 to $5; valley is scarce at $6, carnations plenty at $1, long and short; cosmos in any quantity; no offer refused.

Among the palm growers trade is brisk. Florists generally throughout the country are getting necessary stock before the cold weather sets in. Mr. Charles Ball says that the past month had broken all records with him, and others in his line seem very much pleased with the way their stock has moved.

A great many azaleas have been imported this fall, and seem to have arrived in excellent condition. Spring flowering bulbs, too, are to be seen in quantities at all the large growers.

The American Carnation Society was born in Hort. Hall Thursday afternoon, October 15. It was a much heavier infant than the Society of American Florists, as that weighed less than a score of names at the time of the christening, while the carnation infant tipped the beam at 50 names. There were 35 gentlemen present, each of whom seemed very much in earnest, and letters of encouragement were received from florists in all parts of the country heartily indorsing the movement and desiring to have their names placed on the roll of membership. At least half of the gentlemen who were present make the carnation their specialty, and grow very little else.

Towards the close, after the business had been attended to, a general discussion took place, and many valuable hints were thrown out. The ideal carnation, it seems, is to be 4 inches in diameter, stems long and strong as a rose and very fragrant. Mr. Lonsdale said that to obtain large flowers raisers of new varieties should strive to get longer and broader petals rather than more of them, as they would then get larger flowers, which would not be so liable to burst. Quite a number said that they had imported varieties from Europe, but no good results were obtained, as they were all very late flowering and burst badly. The opinion was general that no help could be expected from this source, and that the carnation for America must be the product of the American grower.

There was quite a collection of blooms arranged on a table at the end of the room. We noticed a fine vase of Lamborn and another of Lizzie McGowan, and it was a toss of a copper as to which was the best. There were also some promising seedlings under numbers.

The "mums" have made their appearance. Becker had the first in pots, a pure white, said to be a sport from Mr. Davis or October Beauty, a pink variety. These were in October 12. R. Scott & Son were first with cut blooms, having fine Glorioosum and Fred Bergman on October 14. They will not have the market to themselves very long, however, as a visit among the growers shows the buds developing rapidly and many expect to cut fine blooms in a few days.

The plants being grown for the coming show look very promising; all agree that they will be finer this than last season, as the weather has been very favorable, and as great care has been taken in disbudding the flowers will be very large. We hear of some very fine seedlings—some wonders in pink and yellow.

The commissioners of Fairmount Park announced that the public might have the bedding plants that would be destroyed by frost if allowed to remain. On the days appointed it kept the entire force of gardeners busy digging up the plants, which were carried off by all sorts of people; the poor old woman with a basket which would hardly hold together jostled against the lady in silks who had her carriage in waiting. Everybody seemed happy, however, and no doubt many homes will be brightened whose owners could not have afforded to buy plants for them.

Charles E. Pennock died Friday afternoon, October 16, after a lingering illness

of consumption. He was about 35 years of age. His health has been failing so that about a year ago his brother Samuel was taken into the firm, and has conducted the business since that time. Mr. Pennock's first business venture was in New York, where he opened a retail store, but his health failing him he sold out to Wm. Scallen, who was then in his employ, and returned to Philadelphia, where he has since been engaged in the commission business.

Boston.

The Mass. Hort. Society has decided to hold the chrysanthemum show November 10 to 13—one week later than the time previously announced. The change was made at the request of the growers who thought they could make a better show a week later.

The cut flower trade has had a regular boom. Roses sell at sight, if good, regardless of variety. Carnations are scarce and are gobbled up as fast as they open. Lily of the valley also is in great demand. Chrysanthemums are coming in pretty lively and are in splendid quality. Specimen flowers are the rule. Cosmos is plenty. The home grown is much handsomer than that shipped from the south. Violets are coming in very slowly as yet, but the plants are looking well generally.

At Mr. John L. Gardner's at Brookline Cattleya Bowringiana is now flowering profusely. Among the new ones are two bearing flowers of unusually deep dark color.

One plant of C. Bowringiana at Mr. Gilmore's at North Easton has a spike carrying 21 blooms. We would like to know if any reader of the FLORIST has done it as well or better. In England 17 or 18 flowers to a spike is considered a remarkable thing.

Speaking of orchids, there is a very fine showing of flowers for the season at Mr. H. H. Hunnewell's conservatory. There is a magnificent spike of Saccolabium Blumei majus in bloom. Mr. Harris, by the way, has not got through telling about his Toronto trip. He can't understand how anybody can be anything but an Englishman and yet be truly happy.

Washington.

A goodly and prompt attendance marked the regular October meeting of the Florists' Club Tuesday night, the 6th inst.

After dispatching the routine business President Bowdler laid before us the present status of the flower market project. He stated that some days previously he had been invited by the president of the Board of Commissioners of the District of Columbia to a further conference on the subject. Commissioner Douglass appeared to desire to withdraw a former suggestion as to the triangular space at the junction of 7th street and Pennsylvania avenue, but thought another reservation near by at the southwest corner of 9th and Pennsylvania avenue known as Fountain Square might be obtained from Congress. He expressed the greatest interest in the subject and requested that the florists after inspection of this and any other sites they might think available would visit him again soon and confer further upon the question.

A lengthy and rather informal discussion followed, the smallness of Fountain Square being the only objection that could be urged, as there is no more central and prominent business locality in the city. Mention was made of a larger square—the Haymarket—a portion of which could undoubtedly be gotten easily, but its location is more obscure and present surroundings not of the most refined. Although the construction of our new million dollar postoffice will purify the neighborhood in time. The sentiment of the meeting seemed to be divided as to whether it is best to sacrifice space or eligibility of location. A committee was named to investigate both sites and wait upon the commissioners on the following day.

The next question of interest was the chrysanthemum show. Chairman Oliver of the executive committee reported that the outlook was not as bright as could be desired, but a discussion of the subject disclosed a pretty general belief that the demands for space would be more numerous and better defined when the growers shall have more time to figure out what they will have to exhibit.

There is one thing certain, our meetings have a better attendance than formerly and the interest shown in subjects discussed is very keen.

The Washington Evening *Star* of Oct. 7 contained the following:

A delegation of Washington florists, including Messrs. Bowdler, Field, Loose, Cadmus, Gude and Clark, had a hearing before the Commissioners this morning with reference to the building of a flower market.

The delegation stated that the space known as Fountain Square, at the southwest corner of Pennsylvania avenue and 9th street northwest, had been carefully examined with reference to its adaptability as a flower market and found it quite suitable for the purpose. A space sufficient to accommodate forty florists was found and altogether it was highly suitable for the needs of the florists.

Commissioner Douglass suggested that the delegation furnish the Commissioners with a design which would be not only useful, but ornamental. He was of the opinion that a building made of iron and glass would be acceptable. The florists will present a suitable plan in a few days.

C.

Toronto.

While reading some gems of poetry the other evening, I came across what I thought a gem of gems by Shelley, entitled, "To a Sensitive Plant," and I wondered if John Thorpe's little garden at the World's Fair would be anything like the garden described in this poem. I feel strongly tempted to copy the whole piece, but here are a couple of verses. (John Thorpe, S. F. W. F., will please take note:)

And the jessamine faint and the sweet tuberose,
The sweetest flower for scent that blows,
And all rare blossoms from every clime
Grew in that garden in perfect prime.

And the sinuous paths of lawn and of moss
Which led through the garden along and across,
Some open at once to the sun and the breeze,
Some lost among bowers of blossoming trees.

In another verse there is a description of the rose which some enterprising rose grower would do well to put on the outside cover of his catalogue along with the lithographic dainties.

The Gardeners' and Florists' regular meeting took place on the 14th, and being the night for nomination of officers, there was an extra large attendance. Chrysanthemum show business took up most of the time; owing to the club not having secured a judge for plants earlier in the year it finds it is now impossible to get a man to its entire liking, and in consequence has had to adopt another system, which I believe has been tried with success before, but is not at all common. Fifteen members of the club are chosen as judges; ten of these act on every entry, thus allowing those who may be exhibitors in any one entry to drop out; each man has a book with all the entries entered in it and each man judges the entry himself, putting three marks to the best, two to the second, and one to the third. The books are handed in to the secretary and totalled up, and of course the entry in each section that has the most marks takes the cake. In like manner judging by points may be done.

After the secretary gets the prize tickets out he will most probably need a little stimulant, and must be carefully attended to if he is likely to be wanted for further use.

The club has also another difficulty on hand. It, through one of its members, engaged the Hoit. Pavilion for November 10, 11 and 12. Some other society previously engaged it for Thanksgiving day (the date is not proclaimed until about a month before), and now it turns out that Thanksgiving day is to be on the 12th; ergo, the club has either got to give up that day or buy the other crowd out, which will cost $250. I think it probable that the latter course will be taken, but a special meeting has been called to decide the point.

E.

World's Fair Notes.

The ground plans for the distribution of plants in the front corridors of the Horticultural Hall have been designed by Chief Thorpe.

The south corridor is for tropical plants to be arranged in irregular groups, which will consist of orchids, palms, cycads, nepenthes, aroids, anthuriums, dracænas, crotons, marantas, etc.

The north corridor is for plants from more temperate zones, such as cacti, ferns, bamboos, etc., rock work, fountains and various tables for exhibits of begonias, lilies and other transitory plants. The size of each corridor is 170x68 feet.

The heating of the Horticultural Hall is now being considered and it is estimated that between 11 and 12 miles of 1¼-inch pipe will be required. The system will be steam and in all probability the fuel used will be oil.

An enthusiast from Utah would like to bring a good slice of the Rocky Mountains and drop it in front of the Horticultural Hall.

A communication from New Zealand proposing the use of numerous tree ferns in the decoration of the grounds and buildings has also been received.

"Christmas Greens"

BOUQUET GREEN.—Considerable of this stock has been bought from farmers who picked it during the hot September weather; it has been bought at 25 to 40 cents per 100 pounds higher than usual, and besides is now in poor shape. It will go to somebody later on. Green now coming in is all right, provided the farmer has already disposed of that first picked by him. The November prices depend entirely on the date of the first considerable snowstorms.

HOLLY.—Good stock well berried is almost sure to be scarce this year, in many sections the holly trees having no berries.

THE Bay County Horticultural Society of Bay City, Mich., offers some splendid premiums for best 100 blooms of chrysanthemums, 50 varieties, at its exhibition to be held November 5 to 11. The first premium is $150, second $50 and third $25. This is intended to draw fine flowers from a distance and local growers are excluded from competition. The society also offers to refund express charges on all flowers sent that are not awarded premiums.

News Notes.

FLORAL PARK, N. Y.—Julius Scharf has lost his oldest boy, a promising little lad of about 6 years.

DENVER, COLO.—During the month of September the Denver Flower Mission distributed 3,267 bouquets.

ST. LOUIS.—It is believed that Mr. D. S. Brown has the finest and most complete collection of nepenthes in the United States.

VICTORIA, B. C.—The gardeners and florists here are preparing to organize a club. There is a goodly number of the craft in this neighborhood.

CLEVELAND.—J. M. Gasser is putting up two new 100-foot rose houses at his Lake Avenue place. He is arranging to make a display of chrysanthemums Nov. 19, 20 and 21.

DETROIT.—The Detroit florists have announced a change of date for their chrysanthemum exhibition to one week later, owing to the backward condition of the flowers. The dates set are November 9 to 14.

PITTSBURGH, PA.—Robt. C. Patterson is preparing to enlarge his borders, he having leased the store adjoining his present quarters. With these two thrown into one he will have an ideal floral establishment.

SOUTH AMBOY, N. J.—At Geo. Such's there is a magnificent specimen of Nepenthes lanata. It is well furnished with beautiful pitchers and is probably the largest of its kind in this country. It attracts great admiration from visitors.

SAGINAW, MICH.—Florist Wm. Roethke will give an exhibition of chrysanthemums at Germania Hall, on Lapeer street, November 4 to 6. He has grown a lot of plants specially for this exhibition and will make an excellent display. The local press is quite enthusiastic over the coming event.

LAREDO, TEXAS.—Anna B. Nickels recently returned from a plant collecting trip in Mexico. She has built a new greenhouse 15x38 feet, which is covered with the plant-bed cloth instead of glass, and will report the result of the experiment next spring. She has had Mexican orchids in bloom for the past nine months.

DANVILLE, ILL.—The newly incorporated Maple Hill Floral and Nursery Co. has purchased ten acres of land and begun the erection of buildings. The officers for the first year are Chas. E. Olmsted, president; Wm. L. Runyan, vice-president; C. L. Lesley, treasurer; Grattan Hall, secretary; Albert C. Wasson, superintendent.

PITTSBURG.—The Florists' Club has got up a guarantee fund of $1,500 to insure against the possibilities of a deficiency in the receipts from the coming exhibition. It is hoped and expected there will be no deficiency, but it is considered safer to have such a fund to fall back upon in the event of unfavorable weather or other unforeseen circumstances.

NASHVILLE, TENN.—There will be an exhibition of chrysanthemums at the Broad Street Amusement Hall, November 10 to 14, the proceeds to go to the Davis Monument Association. The majority of the plants and flowers will be contributed by Mr. Crusman, of the Evergreen Lodge Gardens at Clarksville, and the display promises to be an excellent one.

PITTSTON, PA.—The Honesdale Improvement Association has resolved to plant tulips, hyacinths and crocus bulbs around the park fountain, and in the flower beds in other sections of the town. They further decided to co-operate with the citizens living along Riverside Park in filling in a corner near the bridge, laying out a walk along the lake, and otherwise beautifying that pretty spot.

HARTFORD, CONN.—Some time ago, President Atwood, of the Horticultural Society, sent in his resignation, and a special meeting was held recently to act upon it. It was decided not to accept the resignation, but to release Mr. Atwood from active service. The vice president, Capt. John W. Crane, will perform the duties of the chief office. Mr. Atwood is in poor health, and that was the only reason he had for the resignation.

FLATBUSH, N. Y.—At the conservatories of Mr. Wm. Brown, Melrose Park, a chrysanthemum show will be held from November 9 to 14 in aid of the building fund of the Home for Destitute Children. Mr. Gus Bennett is gardener here, which is a good guarantee that the exhibition will be a creditable one. Last year a similar venture by Mr. Brown netted the sum of $1,402 for the benefit of the Brooklyn Consumptives' Home.

NORRISTOWN, PA.—Mr. C. W. Bergner, a wealthy amateur, is building an elaborate range of conservatories and greenhouses at his country residence, "Abendrub," at Ambler. Hitchings & Co., of New York, are doing the work on contract and the price is said to be $15,000. Mr. Bergner has recently added to his property, and he now has 66 acres, all of which is being improved, and will be in time one of the handsomest places in this section.

NEW BRITAIN, CONN.—The dahlia show of the Horticultural Society, held October 1, was very successful. Nearly 100 varieties were shown, and as one exhibitor remarked, "Of every color except blue and black." At the meeting held during the exhibition a very interesting paper on the dahlia was read by Mr. J. L. Case, and the reading was followed by a very full discussion. At the next meeting, November 3, a paper on chrysanthemums will be read by Mr. Clark Hines.

CINCINNATI.—The monthly meeting of the Cincinnati Florists' Society was held Saturday evening, October 10. There was a fair attendance and four new members were added to the roll. Business is very good. Chrysanthemums are coming in, Gloriosum and Jessica being the most prominent, and the blooms are exceptionally fine and sell rapidly. American Beauty roses are also fine and meet with ready sale. Other stocks are good too, but demand far in excess of supply at present.

SYRACUSE, N. Y.—The date for holding the chrysanthemum show has been changed to November 12 and 13. The society found it necessary to do this as a local charity are to hold an entertainment on the same dates as the society had first determined upon. The show will be the finest ever held here. The premium list has been enlarged and is published, copies may be had by applying to the secretary. At the last monthly meeting the secretary was presented with a handsome present in recognition of services rendered to the society.

FREDERICK, MD.—Arrangements are being made for the holding of a grand flower show in this city about the second week in November. It is expected to hold the exhibition in the large building of Messrs. Birely Bros., East Patrick street. Everybody will be invited to bring flowers and help make the affair a success. No charge will be made for entries or admission. If this first effort proves a success the exhibition will be held annually. Those taking the first steps in the movement are Dr. William H. Baltzell, Messrs. Harry C. Keefer, C. E. Kemp, L. E. Mullinix, R. R. and R. A. Kemp and others.

MINNEAPOLIS, MINN.—The committee of arrangements for the chrysanthemum show has been very busy of late getting ready for the exhibition. In addition to the $1,000 offered by the club the committee has secured the promise of special premiums amounting to about $200. There is every indication that this year's show will far surpass that of last year. The florists are all well prepared for it and plants are in fine condition. The committee of arrangements consists of Messrs. E. Nagel, C. A. Smith and Wyman Elliot. The two large halls on the ground floor in the N. Y. Life building have been secured for the show.

SUMMIT, N. J.—The meeting of the New Jersey Social Florist Club, October 8, was one of the best held this fall. Mr. John N. May, the president, occupied the chair, and the club room was well filled. After the usual business was transacted a paper was read by Mr. H. Clinkaberry on the culture of the erica, which was received with much interest, this being a genus of plants rarely seen in vigorous health in this country. He suggested many important hints which if adopted would probably lead to more successful results in the future. After some discussion the meeting adjourned for bowling, which lasted until a late hour. Many good scores were made, and strikes and spares were numerous.

GALT, ONT.—The Galt Hort. Society's exhibition of September 2–3 was a complete success, both financially and in number of exhibits, and the society may well feel proud of their first effort. The hall was completely filled with a superb collection of plants and flowers which made a grand display. Fruit, however, did not show up quite so well, but this may be accounted for by the fact that apples, pears and outdoor grapes were not sufficiently advanced for exhibition purposes. The show for a first attempt may be put down as a complete success. The display of ferns was beautiful and much admired by visitors. Also the Rex and flowering begonias and the competition by exhibitors of the tuberous rooted begonias was very keen. The popularity of this section of begonias for exhibition purposes, both double and single, is growing. Many of the single ones were magnificently large, some of them measuring from 5 to 6 inches in diameter.

THE premium list of the Minneapolis Florists' Club for their third annual chrysanthemum exhibition has been issued and copies may be had from the secretary, Mr. E. Nagel, 1116 West Lake street, Minneapolis, Minn. The exhibition will be held November 10 to 13. The list of premiums is very liberal.

WHEN sending out premium lists, mail copies to the secretaries of other organizations giving exhibitions. Each organization should have the benefit of the ideas of all the others. See addresses of secretaries in our list of coming exhibitions.



Cultural Notes.

For epiphytal orchids grown in baskets and in pots I have found the employment of an open rather coarse peat to be very advantageous, admitting of copious watering when desirable, the excess passing off rapidly and permitting the access of air to the roots, a great desideratum.

The pots should be well drained with potsherds to two-thirds their depth, then putting in the peat and building it above the top of the pot in a sightly mound, the orchid being firmly fixed on top of the peat. During the growing season most orchids are benefitted by growing a layer of coarse short sphagnum or hypnum on the peat, especially the odontoglossums and similar plants.

For some classes, as the ærides, vandas and such, I prefer to use no peat whatever, simply crocks topping off with live sphagnum.

When growth is finished many demand a season of marked repose, the watering diminished (and with some almost withheld) and a cooler temperature; this is notably the case with nearly every deciduous dendrobium, chysis, etc.

I have found it beneficial to grow many orchids in baskets suspended from the rafters where they get full light, but in summer more or less shaded from the burning rays of the sun; but from inconvenience in watering have generally discarded blocks excepting where demanded in special cases and for establishing some newly imported plants. When imported plants are so treated we frequently plunge the block in a wood basket after the plant is established.

In repotting and remounting we cut away all dead roots, but carefully preserve every live root, and usually do all such work just before the plant starts to grow and never give water directly to those freshly potted until new roots are well started.

There is much risk in watering some sorts too freely before the new growth is sufficiently advanced, and with most cattleyas we water most sparingly until the new growth is two inches or more in length. WM. H. CHADWICK.

Chicago.

Insects and Diseases.

Conducted by CHARLES F. BAKER, Agricultural College P. O., Ingham Co., Mich.
Send specimens of unidentified insects and diseased plants to him at above address.

The Hollyhock Bug.

Last year and this our hollyhocks were attacked by a green bug, *Orthotylus (Psallus) delicatus*, Uhl. We find this attacks the hollyhocks worse than any other plant, though we find it also on the common mallow. We therefore call it the hollyhock bug.

As we do not know of any description of this bug in any bulletins, reports, or accessible treatises on economic insects, we give the following description of the imago (Fig. 1): Color bright green; head yellowish, triangular, broad; eyes globular, yellowish, with a dark center; antennæ nearly as long as the body, four-jointed, hairy, yellowish at base becoming dusky towards the last joint which is nearly black; hairs on first two joints dark, on last two light; first joint heavy, short and black at base; second four times as long as first, third two-thirds as long as second, fourth one-half as long as third; all but first joint slender. Rostrum (Fig. 1 a) or beak yellowish; four joints; reaches to middle legs; first joint robust, the remaining three slender, the last one longest and black except at base. Pronotum—upper part just back of head trapezoidal, widest behind, yellowish varying to green. The posterior two-thirds is often distinct green. A depressed transverse line cuts off from the front about one-third, which part is also divided by a longitudinal median line, into equal portions, each of which has a central rounded elevation. The pronotum is margined. The scutellum varies in color and is green or yellowish; the legs like the whole underside are greenish yellow; the feet or tarsi black at base and tip and light in middle.

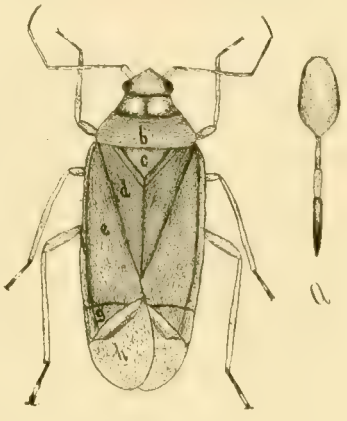


FIG. 1.

The claws are black; the wing covers are green. The clavus (Fig. 1 d) is dark green; the corium (Fig. 1 e) lighter; the embolium (Fig. 1 f) is narrow and still lighter, though the depressed line separating it from the corium is very deep green. The cuneus (Fig. 1 g) is indistinctly differentiated. The whole upper portion of head, thorax and base of wing covers is speckled with short, stiff, black hairs. The membrane (Fig. 1 g) is smoky, with a wide greenish basal margin which is dusky centrally and abbreviated externally. The narrow internal margin of the membrane is black. The insect is a little more than 4 millimeters (16-100 inch) long and about one-third as broad.

These bugs are a very serious enemy to the hollyhock. They swarm upon these plants early in the season, and often so suck out the juices or sap that the plants become blighted, and not infrequently wither and die. This year we treated these insects with the kerosene hard soap emulsion * * * * The plants * * * * were entirely freed from the pests.

The kerosene and hard soap emulsion is prepared as follows: Dissolve one-fourth pound of hard soap, Ivory, Babbitt, Jaxon, or whale-oil, etc., in two quarts of water, add one pint of kerosene oil, and pump (with considerable force for several minutes) the mixture back into itself while hot. This emulsifies at once, and is permanent with hard or soft water. This is diluted with twice its bulk of water before use. * * * * This also becomes, with certain soaps, lumpy or stringy when cold so that it cannot be readily diluted with cold water unless first heated. Yet this is true with all hard soap emulsons in case of certain soaps. We can, however, always dilute easily if we do so at once before our emulsion is cold, and we can also do the same either by heating our emulsion or diluent no matter how long we wait.—*A. J. Cook and C. C. Davis in Bulletin No. 76, Mich. Agr. College Expr. Station.*

NOW IS THE TIME to cultivate the local newspaper men, in order to secure advance notices of your exhibition and good reports of the same after it is open. Send every editor in town a handsome basket of flowers. And don't be niggardly. Do it right or don't do it at all. A $10-basket may secure advertising of a kind that cannot be purchased. Get the newspapers interested in your show and a taste of the beauties to come will more readily stimulate their interest than anything else. But don't depend entirely upon what advertising you get in this way. Have your announcement in the advertising columns also—not yet, but begin about a week before the exhibition is to open. Copy for the advertisements should be prepared now. The advertising committee should now be hard at work.

HAVE YOU appointed a committee to give information to reporters while the exhibition is open? If not, do not fail to do so. Some one member of the committee should be in the hall every moment the exhibition is open. All reporters should be referred to him, and he should devote his full time to them. Show them everything in the hall. Tell them why certain exhibits are of special interest. Give them material for a bright, readable report of the show. They will give space to a good thing, and as a result the paper will be pleased, the public will be pleased as well as educated and you will have advertised the trade and advanced floriculture with the people.

MUSHROOMS will "blossom" alongside of the chrysanthemums at the coming exhibition of the Penna. Hort. Society at Philadelphia. Messrs. John Gardiner & Co., of that city, offer four prizes for mushrooms, and the display will undoubtedly attract the attention and admiration of epicures as much as the varied hues of the chrysanthemums. But there is no reason now why epicures only should be interested in mushrooms. They should be a very common article of food, and will be as soon as the people learn how easy it is to produce them and how much easier and more gratifying it is to introduce them to their palates.

WE SHALL PUBLISH a corrected edition of our trade directory about January 1 next. Though we shall cover the whole country by correspondence, we invite corrections from anyone. And in order that your glass surface may be correctly given, send us a statement for yourself, over your own signature.

Minneapolis.

ED. AM. FLORIST:—The party who could be so heartless as to insert the notice about Mr. Wm. Desmond that appeared on page 194 of the FLORIST for October 8, without a proper explanation of the affair, deserves the censure of every fair minded person.

Mr. Desmond was unfortunate enough to be sent to the inebriate department of the asylum at Rochester, from which he has been honorably discharged as thoroughly cured, and is now hard at work trying to make an honest living for his family.

"A man's a man for a' that."

S. Y. HAINES.

Washington.

The cosmos has come again—a perfect deluge—and yet people ask, what is it? "A floral down," responded a florist, "but unlike Eider down, there is no money in it."

Cut flowers, especially roses, are both fine and plentiful for the season, yet trade is far from what it might be. A complimentary banquet given in this city to the World's Fair Commissioners of England, Germany and Denmark afforded the first opportunity for the fall season to indulge in a little floral display, and the Smalls made a success of it as might be expected. The table, oval in form, was profusely decorated with the choicest roses, while graceful palms and delicate vines tastefully hung imparted to the recesses and walls of the large dining room at the Arlington, a richness seldom rivalled. The Secretaries of the Treasury and of the War and Agricultural Departments were among the distinguished guests, likewise the Attorney General with Mr. McCormick and other noted Chicagoans.

During the week on occasion of the German Day celebration an industrial parade, in which several florists participated, took place. The Gude Bros. had a float of neat design representing Flora's bower; Freeman and Strauss each had large floats banked with elegant palms and ferns, while Studer's float was quite pretentious, representing on a dais under a canopy of palms the Goddess of Flora attended by four pages each holding staffs crowned with implements emblematic of the florists' profession. In front on an incline was a large floral horn of plenty from which floral gifts were dispensed to the crowd and on the sides of the float covered with bunting and garlands one could read the legend: "Flowers for all occasions from the cradle to the grave."

Our florists are actively preparing for their chrysanthemum show to come off next month, which some predict will be a decided success. Z.

CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "DOROTHY," a seedling of 1888—one of the best.

Catalogue will be ready Dec. 10, '91. Send for it.

R. T. LOMBARD,

WAYLAND, MASS.

Mention American Florist.

PANSIES. PANSIES.

200,000 plants of the Jennings strain now ready, 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies A No. 1 in every respect. Large flowering, fine colors and fine stocky plants. Seed 50 cts. and $1.00 per packet.

All sizes in Pansies, flowering plants same price, but must be sent by express. Yellow can be had separate from mixed

ADDRESS **E. B. JENNINGS, Pansy Grower,**

Box 76 **SOUTHPORT, CONN.**

ROOTED CUTTINGS.

Geraniums, Fuchsias,

Coleus, Chrysanthemums.

The best of their kind. Send for price list.

S. B. FIELD, Roselle, N. J.



5,000 FIELD-GROWN ROSES.

Fine, one year old plants of the best Tea and Everblooming varieties, (no Hybrids) at

$6.00 PER 100; $50.00 PER 1000.

THERE IS MONEY in these for all who want first-class stock for Spring sales. Write at once if you want some.

SAMPLES SENT POSTPAID FOR 15 CTS.

C. YOUNG & SONS' CO.,

1406 Olive Street, ST. LOUIS, MO.

"ON TIP-TOE FOR A FLIGHT"

Describes the charming airy grace of the Sweet Pea bloom as only Keats could do it; it also describes the condition of my stock of

Sweet Peas for Winter Blooming

except that a larger lot of them have flown since I announced the stock in these columns.

ONLY A FEW MORE LEFT.

$1.50 per doz.; $5.00 per 50; $8.00 per 100; $70 per 1000.

Edwin Lonsdale,

Chestnut Hill, PHILADELPHIA.

Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Bon Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000.

TEA ROSES, 30 sorts, from open ground, extra strong, $4.00 per 100.

HERMOSA, strong plants, $8.00 per 100.

HYBRID PERPETUAL sorts including JACKS, 2 years old, extra strong, $10.00 per 100.

Carnations.

Hinze's White, Silver Spray, Fred Johnson, Orient, Portia, the Century, Mrs. Cleveland, Tidal Wave, J. J. Harrison, Petunia and Columbia.

1st size, $8.00 per 100; $70.00 per 1000; 2d size, $6.00 per 100; $50.00 per 1000.

FRED CREIGHTON, a fine pink, $10.00 per 100.

Our carnations are strong, field-grown plants and perfectly healthy.

SMILAX. Good strong plants, $2.50 per 100; $20.00 per 1,000.

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FISHKILL, N. Y.

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VIOLETS M. LOUISE AND SWANLEY WHITE, fine field grown stock, $5.00 per 100.

CARNATIONS, Grace Wilder $8.00 per 100

" DeGraw & Hinze's White, 5.00 "

Hinze's White rather small, other varieties good medium stock, all healthy

Primula Chinensis, $1 per 100; P. Obconica, $3 per 100; P. Floribunda, $1 per 100. Send for trade list.

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TRADE DIRECTORY?

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WHY You Should Grow Mushrooms.
Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

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During the Winter and Spring months, the first planting in August or September with successional planting until April.

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Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or outhouses, in the open field or in mushroom houses.

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First get spawn that will grow. It must be fresh, well spawned, and in good condition. **Gardiner's Celebrated English Mushroom Spawn** is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, **"Mushrooms for the Million,"** Mailed free. **Falconer's "Mushrooms and How to Grow Them."** Published at $1.50. (Gardiner's price $1.35 post free.) **Robinson's "Mushroom Culture,"** 50 cts. postpaid.

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John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, $8.00 per 100 lbs. Special rates to large growers. Address all correspondence to **21 North Thirteenth Street,** Philadelphia, Pa.

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Strong two year old Plants for Forcing,

$10.00 per 100.

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Field-grown plants of the splendid New White Carnation **LIZZIE McGOWAN,** $10.00 per 100. Late Spring struck plants, $5.00 per 100.

Late struck plants of LAMBORN, $5.00 per 100.

Very fine plants of HINZE'S WHITE, $5.00 per 100. Cash with the order. Address

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The above offer is good only while plants remain unsold.

Field-Grown

CARNATIONS

Hinze's White, Garfield, Portia.

Very strong plants, in bud and bloom,

$8.00 per hundred.

L. HEINL, Terre Haute, Ind.

FIELD-GROWN

CARNATIONS

L. L. LAMBORN,

$5.00 per hundred.

A. F. PRINCE, - HINCKLEY, ILL.

The Madison Square Garden Company

WILL HOLD A

GRAND CHRYSANTHEMUM AND FLOWER SHOW

Under the Auspices of the

NEW YORK FLORISTS' CLUB,

At Madison Square Garden, November 2 to 8 inclusive.

$6,500 IN PREMIUMS $6,500

And numerous SILVER CUPS are offered for competition to the Florists and Gardeners of America, and every indication points to the most successful and MAGNIFICENT show ever held.

In addition to chrysanthemums and other plants and flowers, there will be a comprehensive exhibit of Conservatories, Greenhouses, Boilers, complete Heating and Ventilating Apparatus, Rustic and Architectural Summer Houses, etc.

RECOGNITION WILL BE GIVEN TO PLANTS AND FLOWERS OF MERIT NOT ENUMERATED IN THIS SCHEDULE.

THE NEW YORK FLORISTS' CLUB in view of the above facts invites your active participation in this EXHIBITION AS A COMPETITOR.

IT IS REQUESTED THAT ALL ENTRIES BE MADE ON OR BEFORE OCTOBER 24.

Night Watchmen will take care of Exhibits. For further details apply to

J. W. MORRISSEY, SECRETARY. or to **WM. PLUMB,** MANAGER CHRYSANTHEMUM EXPOSITION, MADISON SQUARE GARDEN, N. Y. CITY.

ROSES.

Very fine plants of the following varieties from 3-inch pots, purchaser's selection, $8 per 100; our selection, $7 per 100.

Andre Schwartz,	Madam de Watteville,
Arch Duke Charles,	Madam Lambard,
Adam,	Marechal Niel,
Adrienne Christophle,	Madam de Vatry,
Bon Silene,	Papa Gontier.
Cels,	Queen's Scarlet,
Charles Rivolli,	Safrano,
Duchess de Brabrant,	Sprunt,
Lucullus,	Souvenir d'un Ami,
Louis Phillippe,	White Daily.

Send for Wholesale price list, now ready.

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IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

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HARDY ROSES

(For Fall Planting.)

The largest stock in America. | NEWEST VARIETIES FINEST PLANTS.

Complete Catalogue FREE. **ELLWANGER & BARRY** Mt. Hope Nurseries, ROCHESTER N.Y.

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La France, Perles, Gontiers, Woottons, Mermets, Brides, Niphetos; best quality, two-eye cuttings,

FROM 3-INCH POTS, AT $5.00 PER 100.

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10,000 ROSE PLANTS.

Strong healthy stock in fine condition for planting, in 3-in. pots, $8 per 100; in 4-in. $10 per 100.

MERMETS, NIPHETOS, WATTEVILLE, LA FRANCE AND JACQS.

Cut Flowers, Smilax and Adiantum. 25,000 field grown Carnations, Hinze's White, Lamborn, Anna Webb and Portia, $8 per 100. New Scarlet Emily Pierson, $15 per 100. 25,000 Neapolitan Violets, strong clumps, ready in Sept., $8 per 100. **A. N. PIERSON, Cromwell, Conn.**

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Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants for immediate planting, price $20 00 per hundred.

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Edmund M. Wood & Co., NATICK, MASS.

Mention American Florist.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.

Trade list mailed on application.

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ROSES.

H. P., MOSS, AND YELLOW, leading varieties, very strong plants, and a large quantity of Anemone Japonica, white, which are offered at low prices.

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Union Nurseries, ROCHESTER, N. Y.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

Los Angeles, Cal., Oct. 27-31—Southern California Hort. Society. H. W. Kruckeberg, Sec'y.
San Francisco, Oct. 28-30—California State Floral Society. Emory E Smith, Sec'y, 321 Market St.
New York, Nov. 2-8—Madison Square Garden. J. W. Morrisey, Sec'y.
Hartford, Conn., Nov. 3-5—Hartford Co. Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.
London, Ont., Nov. 3-5—Forest City Florists' and Gardeners' Society. Wm. Gammage, Sec'y, P. O. box 155.
Providence, R. I., Nov. 4-6—Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.
Wooster, O., Nov. 4-6—Wooster Floral Club. W. A. Porter, Sec'y.
Erie, Pa., Nov. 5-7—Erie Chrysanthemum Club. H. Tong, Sec'y.
Bay City, Mich., Nov. 5-11—Bay County Hort. Society. T. J. Cooper, Sec'y, 811 N. Water St.
Detroit, Mich., Nov. 9 13—Detroit Florists. Robert Flowerday, Sec'y, 460 John R St.
Louisville, Ky., Nov. 9-14—Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
Pittsburg, Nov. 10-12—Pittsburg and Allegheny Florists' and Gardeners' Club G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.
Newport, R. I., Nov. 10-12—Newport Hort. Society. John Butler, Sec'y, Berkeley Ave.
Toronto, Ont., Nov. 10-12—Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School Toronto.
New Bedford, Mass., Nov. 10—12—New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.
Washington, D. C., Nov. 10-12—Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St. N. W.
Oshkosh, Wis., Nov. 10-12—Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.
New Britain, Conn., Nov. 10-12—New Britain Hort. Society.
Boston, Nov. 10-13—Mass Hort. Society. Robert Manning, Sec'y, Horticultural Hall.
Philadelphia, Nov. 10-13—Penn. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall.
Chicago Nov. 10-13—Hort. Society of Chicago. G. L Grant, Sec'y, 54 La Salle St.
Minneapolis, Minn., Nov 10-13—Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.
Baltimore. Nov. 10-13—Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.
Indianapolis, Nov. 10-14—Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.
Germantown Pa., Nov. 10-14—Germantown Hort. Society. Thos. E Meehan, Sec'y.
Worcester, Mass., Nov. 11-12—Worcester County Hort. Society. E. W. Lincoln, Sec'y, 5 Oak St.
Galt, Ont., Nov. 11-12—Galt Hort. Society. Thos. Vair, Sec'y.
Montreal, Nov. 11-12—Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St
St. Louis, Nov. 11-13—St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania Ave.
Springfield, Mass., Nov. 11-13—Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St
Utica, N. Y., Nov. 11-13—Utica Florists' Club. J. C Spencer, Sec'y.
Syracuse, N. Y., Nov. 12-13—Central New York Hort. Society. H. Youell, Sec'y, 228 Beecher St.
Buffalo, Nov. 12-14—Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.
New Orleans, La., Nov. 17-19—New Orleans Hort. Society. Charles Wise, Sec'y, Third and Prytania Sts.
Milwaukee, Wis., Nov. 17-20—Wisconsin Florists' and Gardeners' Club. C. B. Whitnall, Sec'y, 438 Milwaukee St.
St. Paul, Minn., Nov. 17-20—St. Paul Florists. L. G. Venzke, Sec'y, 131 East Sixth St.
New Haven, Conn., Nov. ——— New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 478 Orange St.
Little Rock, Ark., Nov. ——— Little Rock Florists' Club. D. M. Tipton, Sec'y.
Philadelphia, March 29-April 1—Penn. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

AVOID THE RUSH.

It is undoubted true that many of our commonly accepted methods of culture originated in the chance discoveries of somebody. It is said that the finest Jacqs ever brought to New York for Christmas were the result of a mistake. Our growers are too much inclined to keep in the same rut as their neighbors, hence we have the crops of a whole section all piled in on the market at one time, whereas with more independent individual action on the part of the growers the crops would have been distributed over a longer period and been more profitable to all concerned. How often we hear a man fussing because he is a few days behind his neighbor in starting a lot of bulbs or plants, and yet it is almost always the fact that the crop which is a little ahead or the one which is a little behind is the one which is most easily and profitably disposed of. The early cut has the market to itself at first, and so has already an established outlet when the glut comes in; and since "having is keeping" as a general thing, it is not easily dislodged by the new comers. The thoughtful grower will now watch his chrysanthemums and take note of those that bloom earliest with him, as well as those that give evidence of being the latest, and next year he will give such varieties the preference over those that come in just at the time when the market is overloaded. It pays to have good chrysanthemums in October and a crop of nice blooms about Christmas time would not go amiss.

OWING to the lateness of the season several societies have decided to change the time for holding their chrysanthemum show to one week later. Note the changes that occur weekly in our list of coming exhibitions on this page.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young man in cut flower store; 6 years' experience in florist business. Chicago or the west preferred. Address H D, care American Florist, Chicago.

SITUATION WANTED—By a first-class florist, propagator and landscape gardener. Drawing and laying out of new places a specialty. Address HENRY HELLER, 2219 Larimer St., Denver, Col.

SITUATION WANTED—As forman in a private or commercial place; 15 years' experience; can furnish good references. Address R. VIPONA, care T. V. Evans, Helmswood Gardens, Riverside, Cook Co., Ill.

SITUATION WANTED—By a gardener and florist, competent to take charge of a first-class place, private or commercial; well up in all branches; married, age 37. Address J L C, 67 Bromfield St., Boston, Mass.

SITUATION WANTED—As foreman in general nursery; Austrian, age 42, married, no family, 30 years in the trade. 1 year in America; roses, bedding plants, bulbs, palms, etc. JOSEPH A. KASCHKER, box 16, Anacostia, Washington, D. C.

SITUATION WANTED—By young man as gardener; 15 years good experience in leading places; can give highest references. Address, stating particulars, JAMES SCOTT, care W. J. Stewart, 67 Bromfield St., Boston, Mass.

SITUATION WANTED As foreman, propagator and grower of roses and choice stock. First-class designer and decorator, bedding, etc., park or public grounds. Strictly temperate, and capable in any department. ALBA, care American Florist.

SITUATION WANTED—By a thorough practical florist and gardener, 20 years' experience, 6 years in last situation; fully competent to take charge of a first-class private or commercial place; good references. Address C H, care American Florist, Chicago.

SITUATION WANTED—German, aged 28, married, no family, 14 years' experience (10 in Germany), would like situation in florist's establishment, or could take charge of same; good references. Address F SCHMIDT, care M. Dummett, Mt. Vernon, N. Y.

SITUATION WANTED—By a thorough practical florist and gardener, fully competent to take charge of a first-class private or commercial place; age 30 years, married, German, 12 years' experience, best references; or will lease or buy a small florist business in a lively city. Address JOHN STAMM, 3501 Black St., Denver, Colo.

SITUATION WANTED—By a practical gardener as manager of private or public grounds or large commercial plant; thorough knowledge of all branches; a successful hybridizer of orchids; unexcelled in palms, stove plants, roses, cut flowers, grapes, etc.; rockery and landscape gardening; 20 years' experience; unexceptional references; sober; married, with small family; only first-class position desired. Address BOTANIST, Niagara St., Pittsburg, Pa.

WANTED—Florists to send their wholesale price lists to Secretary Maple Hill Floral and Nursery Co., Danville, Ill.

WANTED—At once, a man good at potting and general work in a greenhouse Address stating wages asked, HANS NIELSON, St. Joseph, Mo.

WANTED—Assistant in commercial place of about 4,000 ft. of glass; one who understands growing general greenhouse stock; or will lease to good man. J. R. SHAVER, Charleston, W. Va.

WANTED—An assistant (single) in private place, one who has a fair knowledge of orchids preferred. Address, stating full particulars, J E L, 301 Boyden St., Colvin Fact, Syracuse, N. Y.

WANTED—For our floral department a young man who has had several years' experience in selling and making up cut flowers. Must come well recommended. Apply by letter, stating age and experience. BROWN, THOMSON & CO., Hartford, Conn.

FOR SALE—Cheap—Large cherry wood florists' ice-box. FOREST GLEN FLORAL CO., 211 E. Lake St., Chicago.

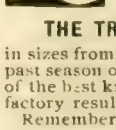
FOR SALE—Greenhouse business at Austin, Ill., cheap. Reason for selling, poor health. Address JOS. SHAW, Austin, Ill.

FOR SALE—Greenhouse establishment in large western city, 12,000 feet glass; fine retail location. Will sell cheap, or give right party chance to go in with small amount of cash. Address, with full particulars and references, BUSINESS, care J. C. Vaughan, box 688, Chicago.

TO GARDENERS AND FLORISTS.

J. C. GOODING, the well known rose grower, wishes to retire, and will dispose of his greenhouses, all well arranged, heated by steam, about 16,000 feet of glass, dwelling and barn; lot 160x350; good location, within city limits. Cash, half down. Address **1216 Euclid Ave., Cleveland, O.**

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by weight, roots and fronds cut off. For these we book orders at **EXTRA FAVORABLE RATES** up to

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in small or large quantity.

THE TRUE LONG-LEAVED VARIETY,

in sizes from 3—4 inch to 4—6 feet. We imported past season over 30,000 lbs., and can refer to some of the best known firms in the U. S. as to satisfactory results.

Remember a Cycas is a safe investment.

ALSO ORDERS TAKEN FOR

RHAPIS FLABELLIFORMIS.

Can send you all safely by freight. Full information as to prices, time of delivery, freight rates, etc given on application. SEND FOR CATALOGUE.

Send orders to

H. H. BERGER & CO.
SAN FRANCISCO, CAL.

10,000 VIOLETS, MARIE LOUISE, splendid field grown clumps, $4.00 per 100.

3,000 ROSE CATHERINE MERMET, nice, 3-inch, $4.00 per 100.

10,000 SMILAX, 2½-inch pots, ready for planting, or for 4-inch pots, cut back several times, $2 per 100; $18 per 1000.

4,000 BEGONIAS, Alba picta, Lobata var., Metallica, Miniatii, Sandersonii, Compta, Rubra alba, 2½-inch, $3 per 100; nice, 3-inch, $5 per 100.

Chrysanthemums, Primula Obconica, Hydrangeas, Etc., in quantity.

Address **N. S GRIFFITH,**
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CHINESE PRIMULAS.

SINGLE CRIMSON,
PINK, AND WHITE

2½-inch pots, extra strong, $3 per 100.

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79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

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IN THE WEST!
KENNICOTT BROS.,
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WIRE WORK A SPECIALTY.

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OPEN NIGHTS AND SUNDAYS.

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Store Open: Nights 9 P. M.; Sundays 2 P. M.

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GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders.
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FLORISTS,
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A complete line of Wire Designs.

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Import and Export Nurseries,
HAMBURG, GERMANY.
Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.
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CUT SMILAX
At Summer prices—15 cents. Quality first class
Shipped on shortest notice. Telephone No. 15.
JOS. E. BONSALL, SALEM, OHIO

FLORISTS
please place your orders for
Wild Smilax, Pines and Palms,
for Decorations, early with
A. C. OELSCHIG,
SAVANNAH, GA.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

Wholesale Markets.

Cut Flowers.

BOSTON, Oct. 19.

Roses, Bon Silene	1.00
" Gontier	2.00
" Niphetos	3.00
" Perle, Sunset	4.00
" Mermet, Bride, Waban	5.00
" La France	6.00
Carnations	1.50 @ 2.00
Violets	.50 @ .75
Lily of the Valley	4.00
Candytuft, per bunch	.25
Smilax	12.00
Cosmos	1.00
Asparagus	50.00
Adiantums	1.00
Chrysanthemums	15.00 @ 20.00

NEW YORK, Oct. 19.

Roses, Bon Silenes	1.00
" Gontiers	2.00
" Perles, Cusins	2.00 @ 4.00
" Niphetos	2.00 @ 3.00
" Mermets, Brides, Waban	2.00 @ 4.00
" Watteviles	3.00 @ 5.00
" Hostes	3.00
" Bennett	4.00
" La France, Albany	4.00 @ 8.00
" Beauties	5.00 @ 30.00
Valley	3.00 @ 6.00
Carnations	1.00
Smilax	10.00 @ 15.00
Adiantums	.50 @ 1.00
Violets	.50 @ 1.00
Chrysanthemums	12.00 @ 35.00

PHILADELPHIA, Oct. 19.

Roses, Beauties	12.00 @ 20.00
" Mermets, Brides	4.00 @ 5.00
" La France, Albany	4.00 @ 5.00
" Cusins, Watteville, Hoste	3.00 @ 4.00
" Perles, Niphetos	2.00 @ 3.00
" Pierre Guillots	4.00 @ 5.00
" Gontiers	1.50 @ 2.00
Valley	8.00
Carnations, long	1.00
" short	.75
Cosmos	.50
Smilax	15.00 @ 20.00
Adiantums	1.00
Chrysanthemums, large, fine grown	12.50 @ 20.00
" ordinary	1.00
Pansies	.50
Violets, single, bunches	3.00 @ 4.00

CHICAGO, Oct. 20.

Roses, Am. Beauties	15.00 @ 18.00
" Perle, Niphetos	3.00 @ 4.00
" Gontiers, Hostes	3.00 @ 4.00
" Mermets, Brides	4.00 @ 5.00
" La France, Albany	4.00 @ 5.00
" Bennetts, Woottons	4.00 @ 5.00
" Bon Silenes	2.00
Carnations, long	1.00 @ 1.50
Carnations, short	.75 @ 1.00
Smilax	15.00 @ 18.00
Callas	15.00 @ 18.00
Chrysanthemums	2.00 @ 3.00
Cosmos	.75
Adiantums	1.00 @ 1.25

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

WHOLESALE
CUT FLOWERS.
GOOD ROSES FOR SUMMER TRADE.
Write for prices.
J. M. GASSER,
101 Euclid Ave., CLEVELAND, OHIO.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

Edward C. Horan,
WHOLESALE FLORIST.
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist

THOS. YOUNG, Jr.
WHOLESALE FLORIST
20 West 24th Street, NEW YORK.
LILY OF THE VALLEY, and the Choicest ROSES for the fall and winter season.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
NO. 32 W. 30TH ST., NEW YORK.
Orders to be shipped will receive prompt attention.
Mention American Florist.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

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BURNS & RAYNOR,
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11 West 28th St.,
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Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

CUT FLOWERS.
The Western Trade Solicited.
Write or Telegraph.
SMITH FLORAL CO.,
77 7th Street S. - - Minneapolis, M

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

THE *Rural New Yorker* of October 19 makes the following statement which without other explanation is a serious reflecion on American seedsmen as a class. If the *Rural* knows the names of such firms, as it must do to make this statement, it should in justice to the seed trade make such knowledge public:

> "*There are seedsmen in America that buy just such seeds with which to adulterate fresh, pure seeds, for which they are obliged to pay—the market price.* They are the seedsmen who 'give away' seeds or offer them far below the market price in order to 'introduce them' and 'secure your future patronage.'"

MR. ERNST BENARY has received the Decoration of the Ritter Cross of Alberts Order from His Majesty the King of Saxony.

SECRETARIES of organizations giving exhibitions should keep on file a complete set of the premium lists issued by other organizations. They will be found exceedingly useful for reference. Send your own premium list and request an exchange.

WATCH our list of coming exhibitions. Changes are being made in nearly every issue and the list corrected up to date.

OUR TRADE CATALOGUE
OF
Rare Florida Flowers
AND FRUITS

Has been mailed to every name in the Directory of Florists. If you have not received one, send us a postal card AT ONCE. We are offering AT BED ROCK PRICES a choice variety of Seeds, Plants and Bulbs most desirable for catalogue trade and for cut flower growers and decorators. Seeds and plants of rare **WATER LILIES** and other choice aquatics.

Ferns, Zamia integrifolia, Amaryllis, Crinums, Hymenocallis (Spider Lily), **Orchids and Air-Plants, Hardy Orange, Canna flaccida, New Hardy Tuberous-rooted Ipomæa, Tropical and Semi-Tropical Fruits,**
ETC., ETC.

We are offering **SPANISH DAGGER** (Yucca gloriosa) canes which soon make grand decorative specimens, such as it would require years to grow from small plants. They make fine companions for Palms, Tree Ferns, etc.

PIKE & ELLSWORTH,
PASCO CO., JESSAMINE, FLA.

E. G. HILL & CO.,
Wholesale Florists,
RICHMOND, INDIANA

Apple Geranium Seeds
Per 1,000 Seeds, $2 50; per 10,000 Seeds, $20.
Of this popular plant we have gathered a large quantity of seed, and are prepared to supply the trade as long as stock lasts. Send in orders early to
BROTHERS' INDUSTRIAL GARDENS,
Mobile, Alabama.

OVER A MILLION BULBS.
DUTCH HYACINTHS, TULIPS, NARCISSUS, CROCUS, ETC. now in stock.
THE BEST ARE THE CHEAPEST.
A good bulb requires no more space, heat or care than a poor one; our aim is to merit your confidence and trade by supplying only the best. **TRY US.**

	Per 100	Per 1000
MIXED HYACINTHS, Single or Double, equal quantities Red, White and Blue	$ 2 50	$22.50
MIXED TULIPS, First-class, Single or Double	1 00	7.50
" " Superfine, Single or Double	1.25	10.00
" " Best NAMED SORTS, Single or Double. **Solid colors, special for Florists' use**	2 00	17.50
MIXED CROCUS, all colors	.25	2.00
FREESIA REFRACTA ALBA (own growth)	1.00	7.50

25 Bulbs at 100 price; 250 Bulbs at 1000 price. For terms of Credit, etc., see our Bulb List, free to all.
FINEST BERLIN LILY OF THE VALLEY PIPS, ready in November, $10 per 100. Write for Special estimates on your wants. ☞ OUR FACILITIES ARE UNEXCELLED.
Z. De FOREST ELY & CO.,
Wholesale Importers of Bulbs, 1301 & 1303 Market St., PHILADELPHIA, PA.

HYACINTHS, TULIPS, CROCUS.
LILIUM HARRISII A SPECIALTY.
MUSHROOM * SPAWN.
VEGETABLE AND FLOWER SEEDS for Fall Sowing. ILLUSTRATED CATALOGUES FREE.
Weeber & Don,
(Successors to A. D. Cowan & Co.) SEED MERCHANTS,
114 Chambers St., NEW YORK.
Mention American Florist.


READY · THIS · WEEK
CHINESE NARCISSUS.
BOUQUET GREEN.
AZALEAS.
L. AURATUM, Oct. 28.
ALL FLORIST STOCK IN SEASON
J·C·VAUGHAN CHICAGO·


NEW AND RARE PLANTS,
ORCHIDS, ETC.
A large collection of Hot House and Greenhouse Plants carefully grown at low rates
ORCHIDS—A very extensive stock. East Indian, Mexican, Central South American, etc.
Hardy Perennials, Roses, Clematis, Pæonias, Phloxes, Japanese Iris, etc.
New and Standard fruits; rare and beautiful Trees, Shrubs, Evergreens, etc. Catalogues on application.
JOHN SAUL, WASHINGTON, D. C.

ORCHIDS.
THE FINEST STOCK IN THE WORLD.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 265 Greenwich Street, New York City.

CATTLEYA PERCIVALIANA.
A fine consignment of this beautiful winter-blooming Cattleya just to hand. Plants have arrived in excellent condition. Also an immense stock of well established Orchids at very low prices. Write for price list
FREDERICK MAU,
P. O. Box 322 SOUTH ORANGE, N. J.

50,000 PANSIES.
Plants A No. 1; finest strain in the country. Price, 60c. per 100 by mail; $5.00 per 1000.
Address GEO. B. WHITEHEAD
GREEN'S FARMS, CONN.

Special Offer.
CLEMATIS.

	Per 100
JACKMANNI, 2 years, dormant,	$25.00
HENRYII, " "	25.00
FLAMULA, " "	5.00
VITICELLA, " "	5.00
VITALBA, " "	5.00

AMPELOPSIS.

VEITCHII, from 4 inch pots,	8.00
" 2 years, field grown,	8.00

A large assortment of H. P. ROSES, 2 years, ON OWN ROOTS, grown in open ground, $10 00 per 100
PHOENIX NURSERY COMPANY,
Established 1852. BLOOMINGTON, ILL.

PANSY PLANTS
From first-class seed, showing bud and bloom, per 100, 50c.; per 1000, $3.00.
JOHN J. CONNELLY,
BRYN MAWR, PA.

TO MUSHROOM GROWERS:

WE desire to call the attention of Mushroom Growers to the Premiums offered for an exhibit of Mushrooms at the forth-coming Chrysanthemum Show of the Pennsylvania Horticultural Society to be holden in Philadelphia, Nov. 9th to 14th, 1891. These premiums have been offered in order to bring out a good exhibit of the "King of Esculents"—an exhibit that will have the effect of arresting the attention of the public in a striking manner to the great merits of a much neglected article of food—thereby increasing consumption and largely benefitting all concerned. The co-operation of Mushroom growers in all parts of the country is respectfully solicited to this end, because, the more public interest is stimulated the better it is for the growers eventually. If there should be any growers wishing to exhibit but not wishing to compete for the premiums, no difficulty would be experienced—in fact, any exhibit whether for competition, or for exhibition only, will be gladly welcomed. To any grower who would be willing to send an exhibit but who might be unable to attend personally to the entering, staging, etc. of an exhibit, the subscribers offer their services, and will gladly do all in their power to facilitate matters for the common good. They are willing to receive packages and to unpack and arrange same in a proper manner for exhibition, to enter them in the name of the grower and look after them during the exhibition—thus saving the exhibitor all trouble except the small matter of sending the package. We hope each and every grower will make an effort to send and exhibit. The larger the exhibit the better the general effect will be and the more good will eventually result to the exhibitors. Please drop us a postal as soon as you read this so that we may have an idea beforehand how many exhibitors there are likely to be, and the space necessary to reserve for exhibits.

Recommending this matter to your earnest consideration, we remain,

Yours respectfully, JOHN GARDINER & CO.

P. S.—Address all communications to our office at 21 North 13th Street, Philadelphia, Pa. Premium lists on application, and prompt attention to all correspondence.

FREE OF CHARGE

ON APPLICATION,

Catalogues of Hardy Low Budded **ROSES;** extra strong **CLEMATIS, AZALEAS, RHODODENDRONS,** etc., from the

Boskoop, Holland, Nursery Association.

I offer also following STOCK of BULBS: Narcissus Poeticus and Incomparabilis; Tulips, Duc von Thol, La Candeur, Miltiades, La Reine, Kardinaals hoed, Woverman, etc.

2,000 Lilium Harrisii, 7–9-inch.
1,000 Lilium Harrisii, 5–7-inch.

C. H. JOOSTEN,
IMPORTER OF PLANTS AND BULBS,
3 COENTIES SLIP, NEW YORK.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies, Etc., Etc. For prices examine Wholesale Catalogue.

Address with business card

136 & 138 West 24th Street,
STATION E. NEW YORK.

JAPANESE PLANTS

Trees, Shrubs, Bulbs, Seeds, Etc.

SEND IN YOUR ORDERS NOW, for

Lilium Auratum, Rubrum, Longiflorum, Etc.

Cycas Revoluta at greatly reduced prices.

Camellias in all colors, MAGNOLIAS, TREE PAEONIES, MAPLES, Etc.

Give us a trial, we can supply you with all Plants and Seeds, and can pack safely to any part of the world.

F. GONZALEZ & CO.,
303 to 312 Wayne St. & Crescent Ave.,
SAN FRANCISCO, CAL.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

BULBS.

Send for Price List.

WISCONSIN FLOWER EXCHANGE,
131 Mason Street, Milwaukee, Wis.

THE CHINESE SACRED LILY.

"The Joss Flower" or "Flower of the Gods"

—— OF THE CHINESE. ——

THIS IS THE BEST SELLING BULB FOR THE RETAIL FLORIST THAT THERE IS.

We are in receipt of a large importation, direct from China, which has reached us in splendid condition.

PRICE, $9.00 per 100; 200 for $15.00; $75.00 per 1000.

RETAIL FOR 20 Cts. EACH.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, N. Y.

Mention American Florist.

J. A. De Veer,

154 East 34th St., NEW YORK,

Importer and Dealer in

Bulbs, Seeds, Plants

AND FLORISTS' SUPPLIES.

CATALOGUE FREE TO APPLICANTS.

Mention American Florist

CHINESE NARCISSUS, per 100 $7.50.

BOUQUET GREEN, fresh, 25 lb. sack, $2.25; 100 lbs. $5.75; 300 lbs. $16.50.

LILY OF VALLEY, November 10.

L. AURATUM, Imported, November 1.

J. W. ELDERING,
78 BARCLAY STREET, NEW YORK.
Mention American Florist.

FOR SALE.

Between 3,000 and 4,000 Alternanthera cuttings, strong and well rooted, best red and yellow vars., per 1000, $5.00.

C. G. NANZ, OWENSBORO, KY.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

English von Sions,

per 100, $2.00; per 1000, $17.50; 5,000 for $50.00.

SAMPLES MAILED FREE.

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO.

LILY OF THE VALLEY.

(November Delivery.)

The true Hamburg and Berlin pips, extra strong, 3 years old, packed in cases of 2000 and 2500; per 1000, $9; per 10,000, $80, free on board cars at New York.

SPECIAL QUOTATIONS ON LARGER QUANTITIES.

CHAS. SCHWAKE,
318 E. 85th ST., NEW YORK.

CRINUM AMABILE

retails for $2.50 to $3.00 each; my price, 75 cts. each. 300 on hand. To trade only.

MRS. J. S. R. THOMSON, Spartanburg, S. C.
"Lady manager to World's Fair."

SMILAX—Last Call.

Only a few thousand left, from 2½-inch pots, equal to ordinary 3-inch, at $1.50 per 100; $12.00 per 1000.

F. A. BALLER, BLOOMINGTON, ILL.
Mention American Florist.

Montreal.

The Montreal G. and F. Club offers at their coming show, open to all, for the best 24 blooms of chrysanthemums, a silver cup, value $75, and a cash prize of $12. Anyone wishing to compete can do so by paying an entry fee of $2. The cup must be won three times before becoming the absolute property of the winner. We hope some growers south of 45° will send along a few blooms just to waken up the local men.

The recent exhibition of the Horticultural Society was wretched, a complete failure in every respect in fact. The directors thought they could run a show without the growers. Possibly the last show will teach the "powers that be" differently. Such an exhibition is bound to do harm, as the public like to get something for their money and will be careful before spending another quarter on a flower show.

Business is only fair as yet. The weather has been so fine and no cold nights that there are a quantity of flowers outside yet.

J. Bland's new hairy chrysanth will probably be on view in several places next month. J. B. thinks a "pile" of it.

B.

Peoria, Ill.

Trade very quiet the past month, and plenty of flowers in the market. Louis Miller is building three large houses for growing roses, carnations, violets, and smilax for the wholesale trade; steam heating. Cole Bros. are putting up two new houses for cut flowers. At our State Fair the collection of plants and cut flowers was much better than in former years, each florist doing his best to secure first premium. Mrs. Mat. Cation carried off first premium on general collection of plants, second on geraniums and best floral design; Cole Bros., third on general collection of plants, second on Rex begonias and cut flowers, first on geraniums in bloom, carnations, hanging baskets, single ficus, crotons, best design, cut flower basket; J. M. Cole, first on bouquets and dahlias; James C. Murray, first on Rex and winter flowering begonias, single palm, single fern and basket of cut roses, second on general collection of plants, carnations, third on floral design; Shoat & Wiley, fourth on collection of plants. It is to be regretted that the state board gives the florists such a small space to display plants.

M.

GOOD ASSORTMENT OF

PALMS,

from 2 to 8-inch pots, at reasonable figures, for sale.

Also will EXCHANGE for 1000 small Geraniums, and Flowering and Rex Begonias, in A No. 1 assortment.

A. C. OELSCHIG,

Savannah, Ga.

Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2.00 to $10.00 each. Cycas revoluta, 50c to $1.00 and $15.00 each. Cycas leaves 25c. to 50c. each

DRACENA INDIVISA VEITCHII, DRACO and AUSTRALIS, 2½-inch pots, $4.00 per 100; 3-inch pots strong, 15 to 18 inches $8.00; 4-in. pots strong $12.00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and price list sent on application.

W. J. HESSER Plattsmouth, Neb.

PANSIES.

ALL the plants you want up to Dec. 1st. My customers say the finest strain in the market. Try them, they are worth a trial. Price is low, quality considered.

Per 100, 75c.; per 1000, $5.00.

Reduction on large orders.

SMILAX.

THE plants have grown but the price has not. If you are not supplied let me have a chance to fill you order. Do not delay it too long.

Per 100, $1.50; per 1000, $12.50.

This is a cash rate.

CARNATIONS AND OTHER STOCK.

My whole plant and attention will be devoted to getting out strictly first-class cuttings of all the new and standard sorts of Carnations at a moderate figure. Large stock of

Lizzie McGowan.

Have also made arrangements to have grown for me a variety of other cuttings. I will make it to your interest to give me your orders. Lists on application.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

PALMS and DECORATIVE PLANTS

ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

DRACAENA TERMINALIS,

very fine, 4 and 5-inch pots.

LATANIA BORBONICA,

and many other varieties, in 4, 5 and 6-inch pots.

Prices given on application.

GEO. W. MILLER, 1748 N. Halsted St., Chicago.

PANSIES OF THE BEST STRAINS.

$5 per 1000 by Express; 75 cts. per 100 by Mail. CASH WITH ORDER.

NOTE.—That my Specialties for the coming season are best varieties of

CARNATIONS, COLEUS, GERANIUMS. FIRST-CLASS ROOTED CUTTINGS.

Descriptive Trade List ready in November. Send for it.

ALEX. McBRIDE, Alplaus, N. Y.

PALMS AND FERNS

Well grown Specimen Plants, fit for immediate use.

	Each.
KENTIA, 3 to 3½ ft. high, 6-inch pots, 7 to 8 leaves	$2.50
do 2 to 2½ ft. high, 5-inch pots, 5 to 6 leaves	1.50
do 1½ to 2 ft. high, 4-inch pots, 3 to 4 leaves	1.00
COCOS WED. 2 to 2½ ft. high, 6 to 8 leaves	2.00
LATANIA BOR. 2½ feet high, 6 to 8 leaves	1.00
PANDANUS VEITCHII, 2 to 2½ ft. 6-in. pots	2.00

FERNS—Well grown plants in 3 in. pots, for fern dishes, etc., in following varieties:

Pteris Hastata, Sieboldi, Cretica and Alba Lineata, Davallia Stricta and Fijiensis, Lastrea Leptophyllum, Polypodium, Blechnum and Polystichum, assorted, at $10.00 per 100.

E. W. WEIMAR, Mt. Vernon, N. Y.

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
PANSIES	$1.00	$ 5.00
SMILAX, 2½ inch pots	1.50	12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CARNATIONS, field-grown	6.00	

Address J. G. Burrow, FISHKILL N. Y.

COLEUS Verschaffelti, Golden Redder, Golden Verschaffelti, Sunset, from 2½-in. pots, $20 per 1000; $2.50 per 100. From 3-in. pots, $25 per 1000; $3 per 100. Large stock plants, $35 per 1000; $4 per 100. All orders should be accompanied by money, otherwise shipped C. O. D.

JOHN RECK, Bridgeport, Conn.

Choice Plants Cheap

JOHN H. LEY,

ANACOSTIA, WASHINGTON, D. C.,

Will be pleased to receive orders for the following plants, (in excellent condition; low price for cash):

	Per Doz.
Dracæna fragrans, 5-in. fit for 7-in. pots	$10.00
" terminalis, 4-in. fit for 5 in. pots	3.00
Areca lutescens, 6 in. fit for 7-in. pots	15.00
Cocos Weddeliana, 5-in.	5.00
" " 4 in., extra strong	4.00
Gardenia florida major, large, full, open ground	4.00
" Fortunei, enormous flowers, " "	6.00
Grevillea robusta, 1 ft., 4-inch pots	2.00
" " 2-inch pots	1.00
Padanus utilis, 2 inch pots	2.00

PALMS IN STORE BOXES.

Areca lutescens	$8.00 per 100
Latania borbonica	5.00 "
Cocos Weddeliana	8.00 "
" plumosa	10.00 "

Platycodon grandiflorum, white and blue; Seed just gathered. Pkt. 50 cts.

F. O. B. on Rail, and extra plants to pay express.

MEXICAN ORCHIDS, CACTUS SEEDS.

Our MR. CARLOS LIEBERT will remain at his present address, 627 De Kalb Av., Brooklyn, N. Y., eight weeks longer, and will be pleased to receive orders for any of the above stock.

We make shipments direct from our Mexican address, and all our stock is NEWLY COLLECTED and in FINE CONDITION. FOR PRICES and PARTICULARS write him at above address.

FEDERICO PFEIFFER & CO.,

P. O. Box 601. MEXICO CITY, MEXICO.

INVITATION TO EVERY ONE IN THE TRADE

TO

Our Exhibition

OF

CHRYSANTHEMUMS.

Six immense greenhouses, each 200 feet by 25 feet, filled with plants in bloom, including several new and rare varieties never before exhibited. Also the finest collection of **Orchids, Palms, Ferns** and all kinds of **Exotic Plants** ever brought together in America.

OCTOBER 26th to OCTOBER 31st inclusive.

PITCHER & MANDA, SHORT HILLS, N. J.

Time Table of Trains from New York.

Trains marked with an asterisk (*) are Express trains with special cars from New York to Short Hills, and from Short Hills to New York. Connections can also be made at Newark for Short Hills.

Leave New York, Christopher or Barclay St.	Arrive Short Hills.	Leave Short Hills.	Arrive New York.
7:30 A. M.	8:34 A. M.	9:00 A. M.	10:00 A. M.
8:50 "	8:54 "	9:50 "	11:00 "
8:40 "	9:47 "	10:20 "	11:30 "
*9:00 "	*9:58 "	10:55 "	12:00 M.
10:10 "	11:17 "	12:14 P. M.	1:20 P. M.
11:10 "	12:19 P. M.	1:44 "	2:40 "
*12:00 M.	*12:58 "	3:00 "	4:10 "
1:30 P. M.	2:37 "	*3:38 "	*4:40 "
*2:20 "	*3:17 "	5:05 "	6:10 "
2:30 "	3:39 "	6:25 "	7:30 "

Hardy Perennials

A SPECIALTY.

GOOS & KOENEMANN,

Nieder-Wallup, Rheinger, Germany.

PRICE LIST ON APPLICATION.

WE OFFER:	Per 100	Per 1000
Primula Sieboldi, only best vars., our selection, strong plants....	$7.00	
Primula rosea grandiflora.....	6.25	
PAPAVER ORIENTALE, best vars., our selection, Salmon Queen, Semiplena, Blush Queen, Royal Scarlet, Brilliant, etc., **true**.....	10.00	$85.00
Anthericum liliastrum.....	6.00	
Delphinium nudicaule.....	6.25	
Spiræa aurnens, strong plants....	6.00	45.00
Platycodon Mariesii (nanum) new, a first-class perennial for pot culture.....	12.00	
Montbretia Etoile de feu, new.....	7.50	
Lilium Candidum.....	2.50	

Mention American Florist.

200 Ficus Elastica, from 10 to 16 leaves.
200 Croton Interruptum, 3½-in. pots, good color.
200 Croton Aurea, fine, in 3½ and 4-in. pots.
200 Interruptum, in 2½ and 3-in. pots.
200 Croton Aurea, in 2-inch pots.
Ficus Nitida, all sizes. Also 12 fine specimen trees.
Begonia Rex in variety, cheap.
Begonia, blooming variety, Olbia, Gigantea rosea and many others.
Chrysanthemums in variety.
500 Similax in 2½-inch pots, fine.
And all the leading plants. Write or send for prices.

LOUIS UNVERZAGT,
SPRINGFIELD, ILL.

ENGLISH IVIES.

Fine, strong plants, 2 to 6 feet long, from 4-in. pots, 20 cents each.

DAVID CLIFFE, Germantown, Philadelphia, Pa.

CHRISTMAS ROSES.

THE LARGE WHITE FLOWERING VARIETY.

Orders are now booked for fall delivery. Having the largest home-grown stock in the world, and in splendid condition, I can do them well. Last year the large size produced over seventy flowers. For several years they have given the greatest satisfaction to my customers.

Extra size.....	$24.00	per hundred;	$216.00	per thousand.
1st size.....	16.00	"	135.00	"
2nd size.....	14.00	"	115.00	"
3rd size.....	10.00	"	72.00	"
4th size.....	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000).	2.50	"	23.00	"

Unknown correspondents are requested to add cash or good European references with the orders Orders can be executed at once. Special prices for bulbs and plants on application.

HERMAN BUDDENBORG, BULB GROWER,
Hillegom, = = Holland.

HYDRANGEA PANICULATA GRANDIFLORA,



Japan Snowball.

We believe that our 1 and 2 year old plants are superior to those a year older offered by others.

	Per 10	Per 100	Per 1000
Hydrangea pan. grand. 1 year, 18 to 24 inches.....	$.75	$ 6 00	$50.00
" " " 1 year, 2 to 2½ feet.....	1.00	7 00	60 00
" " " 2 years, 3 feet, strong.....	1.25	10.00	75.00
" " " 2 years, 3 to 4 feet, bushy.....	2 50	18.00	

JAPAN SNOWBALL.—Viburnum plicatum.

We have the only large stock of this in the world. Illustrated circulars, with your name and address printed on them for distribution among your customers, furnished at a low price. Send for sample circular and prices of them.

	Per 10	Per 100
Japan Snowball, 12 to 18 inches.....	$ 2 00	$18 00
" " 2½ to 3 feet.....	2 50	25 00
" " 4 to 5 feet.....	3.00	30.00

☞ Wholesale Catalogue on application.

THOMAS MEEHAN & SONS, Germantown, Pa.

FOR SALE FOR CASH ONLY.

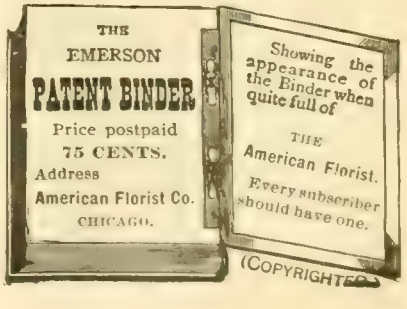
1,500 REX BEGONIAS in variety, in 2 and 3-inch pots, including some of the new varieties, at $2.50 to $4.00 per 100.

Also PTERIS TREMULA, at $3.00 per 100.

LEWIS STELZIG,
E. Main Street. SPRINGFIELD, OHIO.

HAIL Lock the door BEFORE the horse is stolen. Do it **NOW!**
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N.J.

Mention American Florist.



Newport, R. I.

The wedding of Miss Havemeyer on October 15th was the last great society event of the season. The decorations were in charge of Siebrecht & Wadley, and under the skillful hands of Mr. Siebrecht, Mr. Lee and their assistants the house was fittingly prepared for the big event.

The mantel in the dining room was banked with allamandas, Oncidium Rogersii and Perle roses, making with dark foliage a splendid yellow effect. In the fireplace was an immense vase of American Beauty roses. On the mirror frame were hung vines of Black Hamburg grapes loaded with ripe fruit. Around the bride's cake and the candelabras on the table were heavy wreaths of lily of the valley and Adiantum Farleyense.

The smoking room was decorated in red. The mantel and mirror looked gorgeous with branches of Berberis Thunbergii and other red berried shrubs. In the pink parlor, so called, the walls and ceiling were completely covered with white lace. The room is octagon shaped and in each corner was placed a huge vase of Mermet roses from which sprang traceries of ivy vines which showed beautifully on the white lace walls. Grace Wilder carnations and pink chrysanthemums were also used largely in this room.

In the bridal room there was a heavy screen back of where the ceremony was performed made of rich foliage and white flowers. Overhead was a canopy formed of white ribbons and Asparagus plumosa intertwined. Lily of the valley and white roses in great profusion adorned this room, and on the mantel was a beautiful mass of Dendrobium formosum gigantum.

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San Francisco.

If the cherished dreams of the commissioners are fulfilled, Golden Gate Park, or a section of it at least, will resemble the luxuriant gardens of the South Sea islands or the verdant forests of tropical New Zealand in a few years to come.

About three years ago the guardians of the people's pleasure ground brought from Australia a hardy specimen of the cibotium, or tree fern, and transplanted it in a favored spot near the lodge. The conditions to its growth were favorable and the fern has thriven beyond the most sanguine hopes of its careful watchers.

Satisfied that the experiment was a success, the commissioners two months ago engaged R. K. Stevens, the botanist, of Santa Barbara, to visit Hawaii and select several hundred of the tree ferns and also of the dwarf ferns that he could obtain in the islands. The first fruit of the botanist's efforts have arrived in the shape of 300 specimens of the cibotium. In a letter which came by the same steamer Mr. Stevens states that in another month he will have ready for shipment 200 plnats of the adiantum and 1,000 aspleniums, besides 50 specimens of the royal palm.

The home of these tropical emigrants will be on the east side of Strawberry hill. If the present plans of the park commissioners are carried out an immense gorge several hundred feet in length will be excavated. At the head there will be a waterfall with a depth of 70 feet, and the ferns and the palms will be planted closely together and in artistic confusion along the sides of the canyon. The effect will be a bewildering mass of charming green foliage, such as can be seen only in the rich forests and gardens of Hawaii.

A force of men are now at work on the excavation and the commissioners hope to have it completed by May 1st. The plants in the mean time will be nurtured in the conservatory.

The police recently made a raid on the fakirs for peddling flowers without a license and a whole patrol wagon load were taken to the station. The Florists' Club takes care that the cases are vigorously prosecuted, and the war on the fakirs is now wide open.

The magnificent show of tuberous begonias at Golden Gate Park conservatory last month attracted hosts of visitors and excited universal admiration.

THE PRESIDENT of the Agricultural and Horticultural Society of Marion county, Ind., rejoices in the pomological name of John W. Apple.

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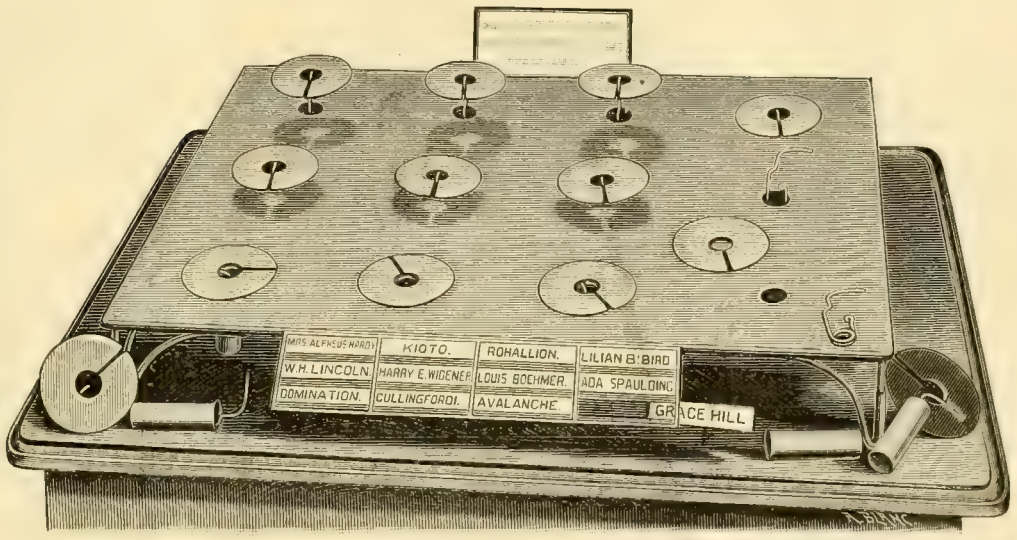
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About Eating Orchids.

ED. AM. FLORIST:—I was quite surprised that you should let the paragraph "never ate orchids" appear in your paper without correction. When the judge exclaimed "how may people eat orchids?" he evidently supposed the orchid was an article of diet indulged in only by epicures. The foot note would seem to imply that orchids were not an article of diet at all. Both of which are erroneous. The extract of several varieties of one species of orchids is a common article of commerce. I venture the assertion that every person in that audience had had his palate tickled with vanilla, which is an extract of the fruit of various species of the family of orchids by that name.

J. T. A.

[Probably every one in that audience had also eaten cocoa nuts and dates, and would you therefore say that they had eaten *palms?*—ED.]

A Brilliant Judge.

At the recent fair of the New York State Agricultural Society at Syracuse, the judge of the floral exhibit awarded first premium for best *dinner table design* to a floral piece illustrative of "Simply to Thy Cross I Cling." It was a slanting, standing cross, with broken wreath hanging over the two arms, on which the quoted sentence appeared. At the foot and behind was a doll clinging to the cross.

After the award had been made the "judge" was told that the piece was not a dinner table design. He said that he "supposed it was."

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M.

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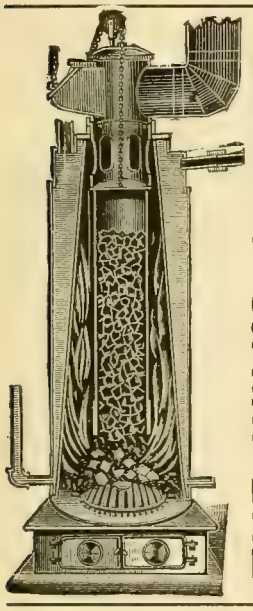


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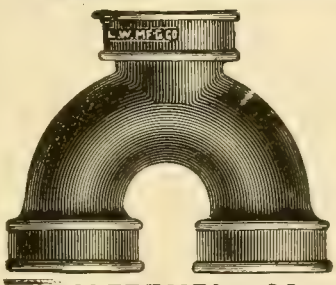
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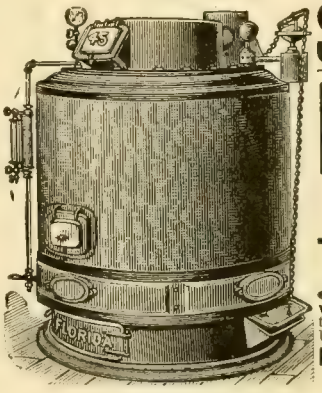
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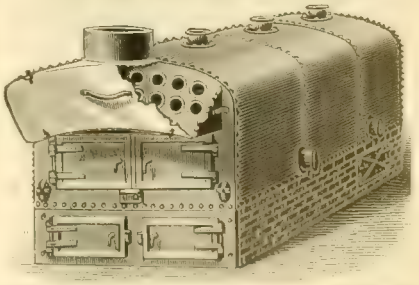
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THE DATES for the chrysanthemum show at Syracuse, N. Y. have been changed from November 17 and 18 to the 12th and 13th.

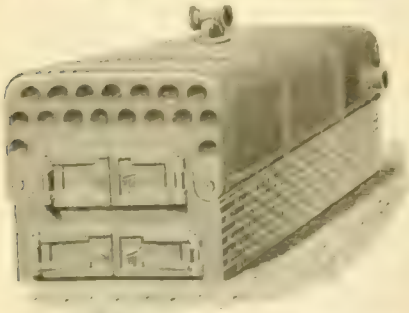
THE Massachusetts Horticultural Society has decided to hold the chrysanthemum show November 10 to 13—one week later than the time previously announced.

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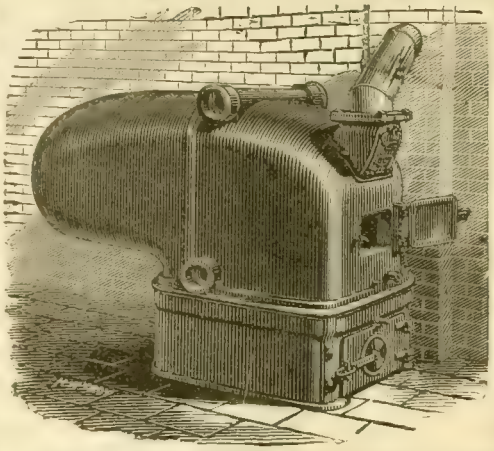
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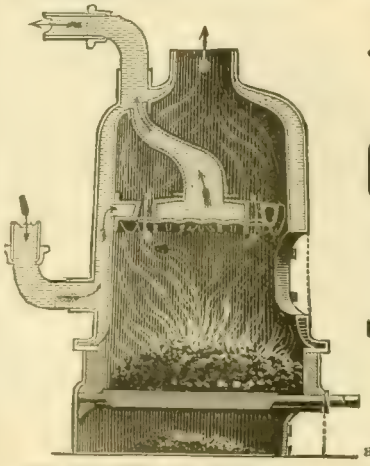
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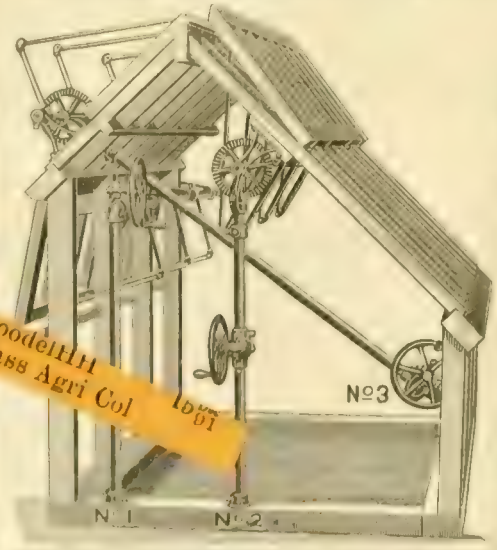
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Vol. VII. **CHICAGO AND NEW YORK, OCTOBER 29, 1891.** **No. 178**

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THE Rhode Island Hort. Society has postponed the chrysanthemum show one week, making the dates November 12 to 14, instead of as before announced.

AN ENVELOPE postmarked Springfield, Mass., and containing a dollar bill and nothing else, has reached us. Will the sender please forward his name and address?

The Artistic Grouping of Flowers.

BY F. SCHUYLER MATHEWS.

II.

The most difficult element which we have to meet and control in the grouping of flowers is the color effect. We always have to contend with insubordination in this direction, and, as I have had occasion to say before, there is a positivism and self assertion about some flower colors with which it is difficult to contend. Then, too, when we have fought our good fight, and rest securely in our own convictions that we are victorious, along comes somebody who shatters our self-satisfaction with the cold remark, "A good composition, but what an awful combination of color!" Our one answer, which is beyond refutation, must be, "The color is natural; it follows nature." But it is to be presumed that we have followed nature intelligently and skillfully.

For instance, in the morning glory and the sweet pea we may observe a perfectly beautiful combination of crimson, purple, and violet. Notice the charming gradation of color in the morning glory; one tone runs into the other with a subtlety which is quite wonderful, and all the colors merge into the luminous green white center from absolute positivism to perfect delicacy with an ease which is surprising. Now, let us try to mass a large group of crimson, purple, violet and greenish white asters together with the same result. Alas! what a task it is and how confused we become with the distracting color tones; but we must feel our way carefully and systematically. First, our most powerful color—crimson or violet—must be grouped gracefully and placed in a prominent position; next, we must run our color tone either toward blue or crimson, as the case may be. If we have any gaslight near we must make use of it to accent our prominent group, and last, mingled slightly with the palest tones of dull pink and purplish blue, or may group our greenish white asters in some position where they will contrast well with the strong color group, and where they will be sure to have the intermediate blue and crimson tones act like a bridge to connect the color scheme. Nothing distracts the eye so much as violent transitions of color.

Speaking of violent transitions, positivism, and insubordination, what unruly creatures we have to deal with in the Calendula officinalis and the African marigold! The most modest transition we can arrange for these all-powerful yellow and orange hoydens is one toward white. The positivism of these flowers we may take advantage of, and create a wealth of golden tones in flower masses, ranging from the primary yellow to the most intense orange. Try these rich golden flowers all by themselves, and notice that either in rooms with dark, somber draperies or in those whose effects are purely white and delicate, they are strikingly appropriate, and sometimes as dainty as they are strong! It all depends upon the skill exercised in their arrangement; the backgrounds are an all-important factor in the case; a black silk Japanese screen, a straw-colored silk scarf, a delicate white and gold patterned wall paper, these are all well calculated to relieve the intense hues of the calendula and marigold.

Then what can be done with the insubordinate, self-asserting dahlia. Some folks call it stiff and artificial; to me it seems stately and royal. I fear that in the rage for the chrysanthemum and orchid we shall well nigh forget some of our truly regal old-fashioned flowers. But to tell the truth, in the revival to-day of fashions in strict accordance with our grandmothers' days, houses, furniture and silver have no greater claim to our particular attention than nosegays and flower-beds!

Therefore, the place for our gorgeous, old-fashioned dahlias is in the revived and stately colonial mansions of to-day. Do not be afraid of the rich yellow and wine-colored varieties; use them with a good proportion of the foliage, and do not constrain them into conventional bonds; they are conventional enough in themselves; besides, the natural droop of the flower on its stem is too beautiful a quality to neglect.

And now to turn to a perfectly dainty and delicate arrangement of two very common yet lovely old-fashioned flowers, the Chameleon or the Pearl nasturtium, and the pale Centaurea cyanus. Here is the opportunity for a thoroughly refined little bit of color. I should use only the centaurea, whose color is either white, with the pink or the blue center, or pale blue with the purple center, or lavender with the pink center. Nothing can possibly exceed the daintiness and perfection of this color combination; it is positively refreshing! No doubt most florists will be skeptical about any flower colors being daintier than those of the paler roses, but the delicate, pale lavender blue and the straw yellow are not to be replaced by any rose tints! Only a parallel is to be found in the Perle rose and the palest blue violet, and this is less satisfactory, because it is rather commonplace. The commonplace, we must remember, is what we ought, if possible, to avoid.

The wide range of color afforded by asters is a temptation for one to employ them in great variety for decoration and in arrangements marked by no distinct idea of a color scheme; this is a mistake. I have before me a lovely pure pink variety, which I notice is damaged by the proximity of any purple varieties. With white, the pink is always beautiful, and I also note that some of my blooms of a pale purple tone inclined toward the pink look very charming beside my perfect pink blooms; but here we have an analogy

of color tone which, if skillfully adjusted, must always result in rainbow effects of color, pleasing beyond expression. We must bear in mind, though, that the brightest tones in our collection must be reserved for the prominent position. The so-called blue asters we ought *never* to place beside those which are pink, crimson, or deep purple and violet. They are really of a purplish blue, and their next neighbors should have very little strength of color deeper, whether the direction be toward the red tone or the blue tone. Delicate colored asters always look best separated from those of a strong and positive tone. We may be reasonably successful with groups of white and pale colored flowers, also with rich purple and violet tones; we may secure sharp contrasts where needed with white and dark purple, but the indiscriminate mixture of all colors, where care is taken to have only those coming in juxtaposition with each other harmonize fairly well, this, generally results in confusion. Such an arrangement savors more of the exhibition, and really, if we wish our flowers to tell of their *own worth* and *beauty*, we should aim less at *display* and more at harmony and union. In music we would employ the terms "jumbled medley" and "simple melody," to distinguish such opposite ideas. We do not hesitate in a choice between the two; one is vulgar, the other is beautiful. One is refined and natural, the other is coarse and artificial. If we would advance the standard of good taste, we must not countenance anything either gaudy or noisy.

"Afraid to Tell the Truth."

The following note appeared as an editorial in the *Rural New Yorker* October 17:

"The committee on nomenclature of the American Florists' Society are evidently timid about saying anything that might offend anyone. 'In examining our florists' catalogues,' the report states, 'your committee has found it a difficult matter to find out many mistakes intentionally committed, with the view to deceive and defraud.' Great conscience! Mayn't we assume that florists who will manufacture names for their 'novelties' will lie as to the *intention?* The fact is, dear committee, you are either *afraid* to tell the truth, or are unwilling to incur the displeasure of your associates by a candid exposure of their 'unintentional mistakes.'"

The above remarks are unmerited and unjust.

In a letter to the *R. N. Y.* last spring I appealed to its readers for information about any plant grown in their neighborhood under two or more names, and also asked them to notify the committee of any case they knew in which a plant had been sold under a false name or under two or more names, that the matter might be investigated. Quoting from another letter of mine, in which I asked to be informed of any instance wherein a dealer or florist misnamed a plant intentionally for some selfish or mercenary motive, that we might bring his sin to the knowledge of the world, the *R. N. Y.* urged its readers to help us in these words:

"The *R. N. Y.* appeals to its readers to render what assistance they may to aid the good work." Further, believing the *R. N. Y.* to be actively interested in this sort of work, and on the strength of many years of warm personal friendship between its editor and myself, I appealed to him as an individual, soliciting his aid in this nomenclature business. His reply was kind and courteous, but he did not bring any case to my notice. Now, if the *R. N. Y.* was fraught with *facts* regarding fraudulent nomenclature by florist frauds, why didn't it let us have them when we asked for them? And I here declare that not one of its readers has brought a case to my notice that has not been promptly, pointedly and fearlessly investigated, and I challenge proof to the contrary.

No, we do not *assume* that any florist *lies*. We deal with facts as we know them to be facts.

The statement that "you are either *afraid* to tell the truth or unwilling to incur the displeasure of your associates by a candid exposure of their 'unintentional mistakes,'" without giving a particle of evidence to sustain it is, in my opinion, a cowardly act; anyway, it is untrue.

WILLIAM FALCONER.
Chairman of the Committee on Nomenclature, S. A. F., for 1891.

Monstera Deliciosa in the Greenhouse.

This magnificent specimen of one of the boldest and handsomest of tropical Mexican creepers is growing in a rockery that was built by Floricultural Chief John Thorpe some years ago in the north end of the great palm house at Allegheny City Park. This greenhouse is 120 feet long, 40 feet wide and 28 feet high. It is only in buildings of such generous proportions that fine plant effects of this sort can be secured and as this Allegheny greenhouse is but a pigmy in size compared with the noble horticultural building being erected for the World's Fair, the monstera before us is only a gentle reminder of the tropical luxuriance we may expect to view when we visit Chicago in 1893.

The monstera has three points of interest, namely, its immense naturally perforated foliage, its very large, boat-shaped, arum-like, white flowers and its long cone-formed, edible fruit, which is so pleasing to the taste as to secure for the plant its specific name, deliciosa. It is also known by two other names, Philodendron pertusum and Tornelia fragrans.

It enjoys warm, shady quarters and abundant moisture at all times. It may be grown indoors all the year round and is better fitted for rock work as we see in our illustration, for spreading under palms, tree ferns, banyans and other tall growing tropical plants in the greenhouse or climbing up their stems or against a moist wall, than for ordinary pot culture. Its great, thick, rope-like roots dislike to be restricted to pot room, indeed, they are willing to run out or down 20 feet to get at earth or moisture, providing they have liberty, and it matters not whether or no the stem of the plant reaches the ground or gets within a dozen feet of it, providing the roots get there.

The flowers are massive and showy, but we can hardly call them beautiful. Old plants having plenty of room to grow in and which run up to the light, flower freely and set and ripen fruit and the fruit is real good to eat, only like many other tropical fruits it takes very little of it to satisfy our northern appetites.

This plant is also freely used in outdoor summer gardening, where it is massed or spread in isolated way with tender ferns, palms and similar plants in moist sheltered and somewhat shaded dells to give a tropical effect. Fine examples of its use in this style may be seen every summer in Battersea Park, London. Of course for this kind of gardening the plants have got to be grown in pots or tubs and when set out in summer the pots are plunged in the ground and sodded over. W. F.

Some Recent Improvements in Old Fashioned Flowers.

ANNUALS.

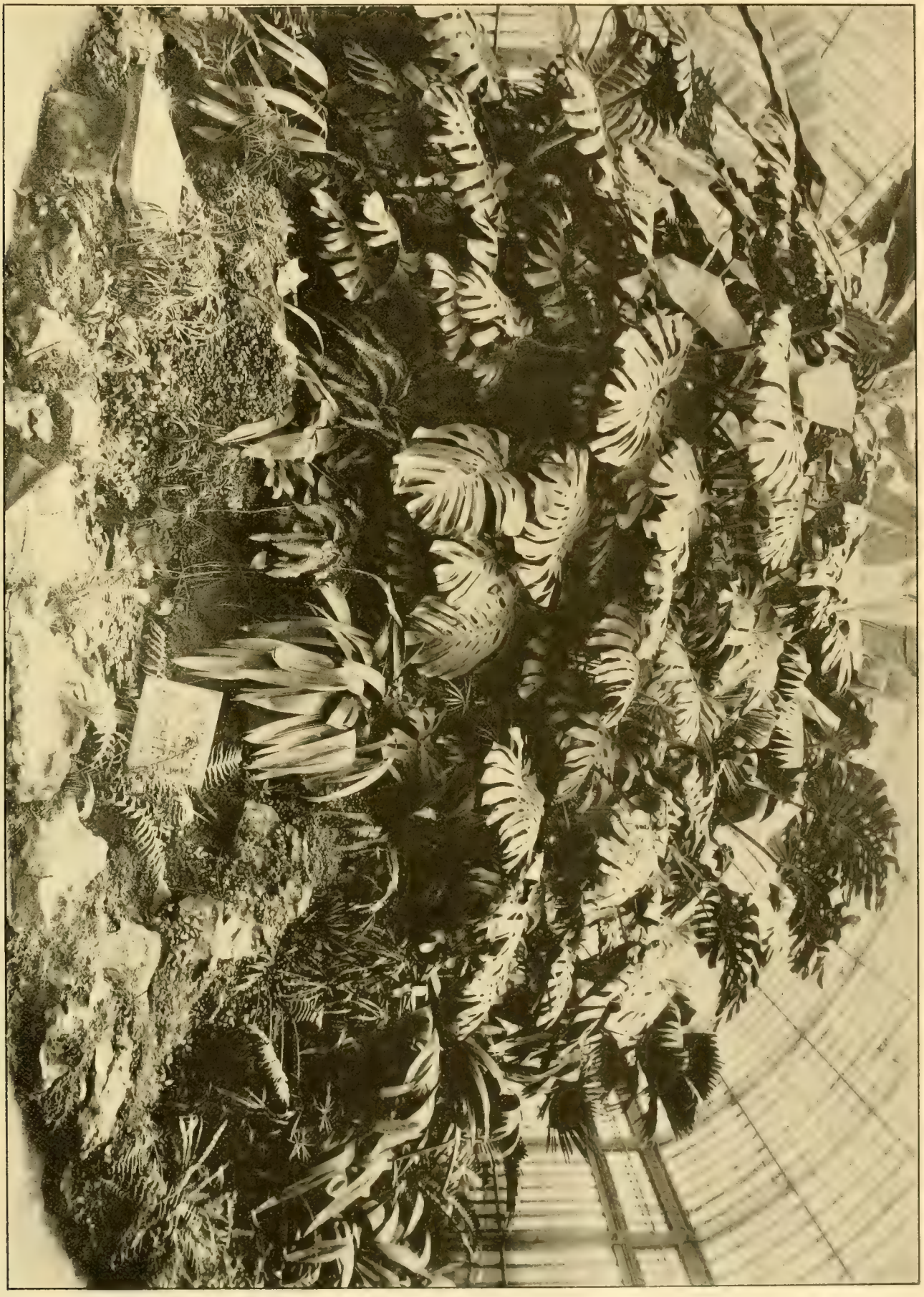
There are some very noticeable improvements in the flowers that were always to be found in our grandmothers' gardens and the change in size, shape, texture and coloring is so great that the old ladies would scarcely recognize them as being any relation to the flowers they cultivated and prized so highly.

Among the many worthy of mention is the zinnia. Until very lately these flowers were looked upon as only fit for planting in some out of the way corner, or to fill gaps in the mixed borders, but now the collections of imported seeds put up in separate colors come so good as to be worth a place in the best part of the flower garden. Those I have grown this summer were all perfectly double, true to the color described on the package, and have not grown more than eighteen inches high and are at this date (October 5) as full of good flowers as they have been all summer. I usually plant them three together in order to pull out any inferior or single flowers, but this year there were none to pull out, all were double and many shades of color that I had never seen before in this class of plants. Another good quality they possess is, no matter how wet the weather may be, they keep on flowering just the same, the flowers retaining their brightness through it all, when the geraniums had not one good flower to be seen. This was particularly noticeable during the heavy rains in August. These are flowers that any one can grow, they need no artificial heat; all I do is to sow them in a cold frame the first week in April; the seeds are sown in very shallow drills and when large enough planted where they are to flower.

The aster is another flower that has been greatly improved of late. There is scarcely any resemblance between the best strains of this flower to-day, and the old fashioned "China Aster" with its single ray of petals and coarse, bare center. There are several florists in this country that have spent some years in improving the already good German varieties. The result is flowers as perfect in form as the best of the chrysanthemums. The only drawback to their use as a florist's flower is their short duration, but this is overcome by sowing at different periods and growing them along in pots or boxes. For ordinary flower garden decoration the sowing and planting is the same as above described for zinnias.

Poppies have been improved within the last few years, particularly the tall large flowering varieties. The so-called Shirley poppies are beautiful, so are the tall globular and fringed varieties, making a perfect ball or pompon, but I have seen no improvement on the dwarf French poppy sent out by Carter of London in the year 1848. These were called carnation poppy and were as double and fringed as possible, the colors principally scarlet and white edges. Poppies can not be transplanted, but must be sown either in pots or where they are to flower; they make a long tap root and all plants making this kind of root are difficult to transplant. During dry hot weather these plants are subject to the attacks of black fly and a sort of mildew, which makes their flowering very uncertain.

The marigold is another old fashioned



MONSTERA DELICIOSA ON A ROCKWORK IN THE ALLEGHENY PARK CONSERVATORY.

flower that has been very much improved lately, the African even more than the French varieties. The robust growing and free flowering sort known as Eldorado is much superior to any we have had hitherto. I grow no other kind now, for if good select seed is sown nearly all the plants will produce large double flowers, and in two decided colors, that

is a clear orange and a clear lemon color. For a background to the mixed borders or groups to be seen at a distance there is no annual more effective. French marigolds are, strictly speaking, an autumn flower, and will make a display with less attention than any other annual. They are particularly suited for planting in city gardens, as a smoky atmosphere does not hurt them, the first frosts of autumn do not mar their brightness, and another advantage is, they can be lifted and replanted in dry weather if wanted to fill any gaps, even when large plants and in flower. If a good quality of seed is sown nearly all the flowers are double and of a pleasing mixture of colors, ranging from pale sulphur to yellow, orange, maroon and endless variations in striping. But the great drawback to their use as a florist's flower is their vile smell. Neither of these marigolds can be used for bouquets or other decorations on that account. The greatest improvement in the plant formerly called pot marigold (Calendula officinalis) is to be seen in the variety called Meteor. Our grandmothers would hesitate before pulling this flower to pieces to put in broth, as they formerly did with the single variety. There is no comparison, they are now so double and such good colors, last well after being cut, bloom readily all winter, and are a great acquisition where cheap flowers are wanted.

Portulacca is another old fashioned flower that has come to the front again. It was formerly objected to on account of its being closed for one half of the day, but that does not apply to the new type, for they are now to be bought as double as a ranunculus, in fact, I have grown some this year that were so full of petals that they could not close, making them just as effective as when fully open. They are of no use for cutting, but for a dwarf border on dry or sandy soil, requiring no care after sowing except to pull out any large weeds that may appear, I know no flower that is so little trouble to grow.

The Sweat Pea is another flower that has been so much improved that it has become one of the most fashionable flowers for several seasons and has had special prizes offered and a show to itself in Boston the past summer, and well it deserved it. There were some beautiful samples shown of the latest improvements in this flower. Many years ago when we got a variety called the Scarlet Invincible we thought there could be no improvement, but Mr. Eckford and other growers have sent out some entirely new colors with more flowers on a stem and much freer flowering than the old sorts. There is quite a demand for them as a winter flower, and I have had them in bloom nearly the whole year, but to succeed with them in winter they demand all the light that can be given them. For outdoor flowers I make trenches and put in plenty of manure, two feet deep, and sow early. This deep manuring keeps the foliage good in dry weather and in a great measure prevents mildew.

SAMUEL HENSHAW.

Carnation Diary Wanted.

Would it be possible to have the diary of one of our good growers, who runs largely on carnations, published in the FLORIST? I for one would greatly appreciate it. I. A. P.

[We should be very glad to receive such for publication.—ED.]

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.



Seasonable Notes.

EXHIBITION FLOWERS.

Just as soon as any flowers are nearing perfection cut them at once; don't wait until they are fully open. If the weather is very bright it is best to cut them early in the morning; always cut with good, long stems and put in water *momentarily*, so as to prevent the slightest evaporation. The best place to keep flowers is in a basement, where the temperature is at between 55° to 60° and the light is just enough to distinguish the flowers without any glare. Before finally putting the flowers away get something like a ordinary water pail, fill it full of clean water, place the flowers in carefully, having each stem held in position, so that the flowers are erect; eight or ten flowers are enough in a pail; and every other day go over the entire lot, place them in fresh water, first cutting off about one-half an inch of the stem. The flowers will grow almost a third larger in a week and they will last for three weeks if cared for.

Don't fail to look after those stock plants to see now that next year the plants are true to name; O. K. the labels.

I have just found out who Mary Edd is. She is neither more nor less than the true old Pompon, Madame Domage, who has been meandering round for the past 20 years as Precocite, Old White, Jardin des Plantes, Hutt's Market, together with several other aliases. JOHN THORPE.

Growing Specimen Blooms.

BY WILLIAM KIRKHAM.

[*Extract from paper read before the Chicago Florist Club, October 22.*]

Chrysanthemum growers commence to put in cuttings from November to March, and even later, but for our mode of culture I consider the early weeks of February a very suitable time. By striking them at that time we have not the amount of care to give the cuttings that we would were they struck two or three months earlier, and can have equally good results.

In February I prepare boxes 18 inches long and 12 inches wide. I prefer the boxes to the benches for propagating for the reason that I can move them and their contents about from place to place as I see fit. The boxes are filled with a compost of loam and sand, and the cuttings inserted in rows about two inches apart. They are then placed in a temperature of 45° to 50° at night, and shaded through the day from the direct rays of the sun. As soon as the cuttings are rooted, and before the wood begins to make any growth they are potted into 3-inch pots, potting moderately firm and using a compost of loam and rotten manure, with a very little sand, and placed back again in the same house with the same temperature until the plants have taken hold of the new soil, which will be in three or four days, after which the temperature can be lowered. In fact, the cooler the house is kept, so long as it is kept from freezing, the better it will be for the young plants. When the pots begin to show signs of filling with roots and before they are pot-bound, they must be moved on into a larger size, slightly pruning the roots while potting. Place back again in the cool house, not forgetting to give air on all favorable occasions.

When the young plants have attained the height of four inches, they should have their first stopping. Care should always be taken to stop them a week or ten days previous to potting at any time, so as to allow them to break into new growth. As soon as the pots begin to fill with roots they should be potted on until they get into their blooming pots.

During their young stages very great care must be exercised in watering, especially in April and May, before they are potted for the last time; if they are overwatered in the early part of the season, and particularly while they are in the small pots, they are very likely to grow too quick and get pot-bound before you can get them into their blooming pots and if once they get pot-bound and grow up thin and weak, the season's work in a manner is so far lost, as you cannot get such good results afterwards as you could if the plants had never had a check. This applies more particularly to pot culture than it does when you plant them out on a bench.

From now on removing all superfluous growth must be attended to. If any suckers appear from the roots they must be pulled off, and only two shoots should be allowed to remain on a plant. When these two shoots have attained a height of four inches from the last break they must be stopped for the last time. After they have broken they must be reduced from three to six shoots to a plant. When the shoots from the break are half an inch to one inch in length, if the pots are nicely filled with roots, they must be removed into their blooming pots, which may be either 8 or 9 inches in diameter.

The soil should consist of good strong loam broken up roughly, adding thereto a liberal supply of rotten cow manure, plenty of bone dust and mortar rubbish, mixing the whole well together. The soil should be rammed into the pots as hard as possible—in fact, if the soil is in a moderately dry condition it is impossible to ram it too firm, using for the purpose a strong ramming stick. When the plants are potted they should have a stake put down the center of each plant to secure them from the strong winds. Give very little water for a few days until the plants have taken hold of the new soil.

The plants will now want frequent attention by keeping all the laterals rubbed out from the joints up the stem as fast as they appear, as well as all the root suckers. As soon as the plants have got well hold of the new soil they should be watered once a week (increasing it in two or three weeks to twice a week), with some kind of liquid manure. A good manure can be obtained from the cowshed, stable or chicken-house, but what is better (if all the kinds can be obtained), is to put equal proportions in a barrel with an equal amount of soot, fill the barrel up with water and allow it to settle for a week or two before using, then add one gill to every gallon of water. After a few weeks it can be increased to one pint to every gallon of water, and by this time it can be used three times a week, always supplying it after the plants have been watered with clear water. The chrysanthemum is a very voracious feeder and is all the better if a change of food can be given to it.

In the latter part of August and early in September the earliest varieties will begin to show their flower buds, and as

soon as they appear all except the center buds must be eradicated. This is a delicate piece of work, and needs to be done with great care, or else the center bud will be damaged and consequently they will open deformed. One of the secrets of success in growing large flowers is the taking of the crown bud as soon as you can see it. Soon after these crown buds are formed, say a week, each pot should be top dressed with some rich material.

Regular attention must still be maintained by taking off all superfluous growth. By this time the plants should have the benefit of being fed with some ammoniac manure, of some kind, and nothing is better than sulphate of ammonia once or twice a week, dissolving about half an ounce in one gallon of water. The plants should be watered with this ammonia until they are nearly half expanded or until they begin to show color, when it can be discontinued altogether. By the last week in September or the first week in October the plants must be taken under glass; all the air must be left on day and night that is possible. I am a great advocate of Mr. Thorpe's plan in regard to air with a gentle artificial heat running through the house to prevent an attack of mildew. The gentle heat that is thus afforded them helps also to expand their blooms to more perfection and a larger size.

In the discussion that followed the reading of the essay, Mr. Gardner gave an amusing description of his experience in trying different systems of growing the chrysanthemum. He had taken cuttings from the same plant, apparently of equal vitality, and rooted and grown one batch in his ordinary potting soil, another in a compost of half soil and half manure, and a third in pure manure, and he could not see a particle of difference in the growth and general appearance of the three lots. He spoke of a trouble he had with his plants this year that he had never experienced before. The crown bud did not develop, but when very small it ceased growth and a number of new buds would start from around the crown bud. And the best thing he could do was to take one of these buds and rub out the others. He had also been troubled by buds starting all along down the stems, and it had kept him busy rubbing them out.

A very lively discussion upon the question of prices that could be obtained for specimen chrysanthemum flowers in the Chicago market then followed, and the retailers present were nearly unanimous in the assertion that $3 a dozen was the highest price that chrysanthemum flowers could be retailed at in Chicago, be the flowers ever so fine. And Mr. Kirkham and other growers rejoined that it would cost the grower fully $25 per 100 to produce such flowers as he had described. Mr. Benthey announced that he had contracted for a lot of flowers grown to single stem, and every one a specimen, at $10 a hundred, taking all the party cut from a house 100x18. He expected to pay for 3,000 flowers, which would make the returns to the grower $300 from that house. But this was a concern that grew mainly bedding plants, and the chrysanthemums took up space at a time when it could well be afforded. The cut flower growers thought it might pay under such conditions, but that it would not be profitable to one who was growing other cut flowers and could use the space to advantage for other cut flower producing stock. Mr. Weinhoeber said that they disbudded but very little, as they found that loose sprays of moderate sized flowers, with buds and plenty of foliage, sold better with them than specimen flowers, and that such sprays were also more profitable to grow.

New York Chrysanthemum Show.

In addition to the list of special prizes, etc., given in the AMERICAN FLORIST of October 8 there are ten more silver cups to be competed for. These are given by some of the prominent society people of New York and are offered for a great variety of things which will add many attractions to the show.

There will be a Japanese pagoda with native attendants who will offer for sale Japanese wares in all their curious and beautiful forms, for which some specially new things have been imported direct from Japan.

Entries for the floral display are coming in very fast and notwithstanding the enormous size of the building from present indications it will hardly accommodate the exhibits.

The plant potting competition will take place during the afternoon and evening of Wednesday, November 4. It is open to all; entries for the same should be made in writing to Mr. William Plumb, general superintendent Madison Square Garden. Pots, plants, etc. will all be furnished by Messrs. Henderson.

The following gentlemen have been invited to act as judges: E. G. Hill, Richmond, Ind.; John Thorpe, Chicago; J. A. Pettigrew, Chicago; J. T. Anthony, Chicago; Edwin Lonsdale, W. K. Harris, Robert Craig, John Westcott, H. H. Battles and John M. Hughes, Philadelphia; W. J. Stewart, F. L. Harris and E. A. Wood, Boston; W. R. Smith, Wm. Saunders and Henry J. Small, Jr., Washington; Wm. Falconer, Glen Cove, N. Y.; B. F. Dorrance, Wilkesbarre, Pa.; W. J. Palmer, Buffalo; A. M. Murdoch and R. C. Patterson, Pittsburg; Wm. Emerson, Staatsburg; F. Mangold, Irvington; Alfred Meredith, Pittsfield, Mass.; Wm. Grey, Albany, N. Y.; Alexander MacLennon, Oakdale, N. Y.; Wm. Mitchell, Highland Falls, N. Y.

As new exhibits will be staged each day to give greater attraction some of these gentlemen will be required for each day, hence the long list selected.

The only drawback that may possibly occur to its entire floral success is the possibility that some of the very finest varieties may not be fully open in time to be seen at their best. Growers are all anxous for bright weather from now till the show opens. JOHN N. MAY.

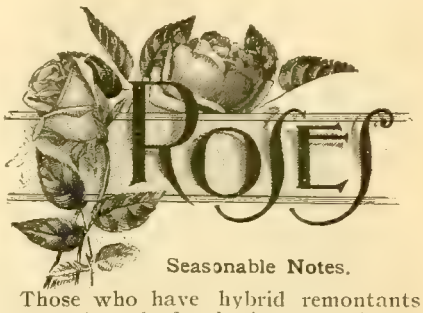
Chrysanthemum Names.

It gives me pleasure to be able to report that registration of the names of new chrysathemums has commenced. It is to be hoped that every raiser and disseminator in the country will follow suit, just as soon as names are selected. Here is T. H. Spaulding's list:

American Flag, Amy Carey, Annie Lonsdale, B. S. Hubbell, Christopher Columbus, Chicago, Columbia, Columbian, Chow Chow, E. Hetzeroth, Ethel Paul, Excelsior, Gus Bennett, J. N. May, Lillian Russell, Looking Backward, Mamie Craig, Masterpiece, Mrs. J. W. Morrissey, Pauline Hall, Ruth Cleveland, Standard, Shenandoah, William Barr.

EDWIN LONSDALE,
Sec'y American Chrysanthemum Soc.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.



Seasonable Notes.

Those who have hybrid remontants prepared ready for forcing, and wishing to get early bloom from the same, should lose no time in pruning and getting them ready to start into new growth; but before doing so it is well to be sure that the wood is well ripened, otherwise a fine crop of blind shoots instead of buds will be the result. Such varieties as Magna Charta, Anna Alexieff, Mrs. John Laing, Heinrich Schultheis, and Gen. Jacqueminot should be well ripened by withholding water and getting the wood good and solid, with the eyes fairly prominent. At no time during the procress of ripening should the wood have been allowed to shrivel.

Presuming that the plants have been properly treated and are now in condition to prune, the first thing to look for is a good, plump, prominent eye; to this each shoot should be cut back, the weaker ones shorter and the strong ones proportionately longer, cutting away all useless spray and unripened wood, so as to give those left all the room possible to develop their foliage and buds. As soon as the pruning is done, clean off all rubbish and slightly loosen the surface of the soil, then spread thinly over the surface a dressing of pure fine ground bone, covering the same with a liberal dressing of good manure mixed with about one-third fresh soil, the whole thoroughly mixed before covering up the bone. Give the whole a liberal syringing to settle it, then if any of the shoots need tying or bending down it should be done at once, after which keep giving a little more water each day until the whole soil, whether in pots, boxes or benches, is thoroughly moistened. Then keep the house at 40° to 42° at night, with fire heat for the first 14 days, and 60° to 65° by day, giving plenty of air. Syringe the plants overhead morning and evening. Should any of the plants show signs of drying out at the root, give them enough water to keep the soil nice and moist, but not over wet.

After about two weeks of such treatment the eyes will begin to swell quite prominently. As soon as they have done so increase the night temperature to 44° or 46°, and continue raising the same 2 or 3° every two weeks till the buds are all set, which will generally be in from seven to eight weeks, by which time the average night temperature will have reached 52°; after this the thermometer should be kept as near 56° at night as possible, with an average day temperature of 62° without sun, and with bright sun the thermometer can be allowed to run up to 75°, providing there is plenty of air on at the same time. They should be liberally syringed on all occasions till the buds begin to show color, after which it should be discontinued altogether.

As soon as the buds are all set, weak, clear liquid manure can be applied every few days as required, which will increase the size of the buds, but this should also be discontinued as soon as the buds are half developed and a somewhat dryer atmosphere maintained until they are all cut.

For later crops the plants can remain

unpruned until it is required to start them, when the same treatment as above can be applied to them, only that the drying process is not so essential to ripening them, as the colder days, now fast approaching, will naturally rest them better than any artificial means.

TEA ROSES.

These will still need the same care and attention as per recent notes; and, as the days shorten, even greater care will be required in regard to water and fire heat, both of which should be sparingly applied. Where mildew still persists in showing itself, apply sulphur in the form of thick paint to the pipes when hot enough to cause fumes to diffuse through the whole house; this will effectually kill it. JOHN N. MAY.

Our Telephone.

"Hello, Central! give us Mr. E. V. Hallock, of Queens, N. Y."

"Go ahead."

"Good morning, Mr. Hallock. What about your specialties this year? Have you anything interesting or instructive to tell us?"

"Well, we have been harvesting our gladioluses. You can imagine that this is no small job when I tell you that we have 27 or 28 acres of ground devoted to the culture of gladioluses and 20 men and boys have been engaged in digging and storing the bulbs.

"Last year we cleaned and stored 50 barrels of the little bulblets alone. The bulblets are sown and the large bulbs planted in rows. We have a plan in cultivating which may be new to some of your readers. When planting the bulbs we cover them with a ridge of earth slightly deeper than is necessary. About the time they are beginning to sprout we go over them lightly and quickly with a hoe, removing the surplus ridge of earth, thus disturbing it enough to kill the young weeds and saving the labor of one weeding of the rows.

"As the bulbs come into flower we follow them up, putting on each as it blooms true to name a little twist of wire. In this work alone we use about 12 stone of wire each season."

"What is your experience with the gladioluses as a market flower in summer?"

"Well, I don't think it would pay to give much attention to growing it for cut flowers. During the past summer we have frequently sent in as many as 5,000 spikes a day to the market, but they have been selling very low. Possibly a good late crop might be made to pay. From the 2d to 6th of July is as late as it is safe to plant them for fall blooming, and only the largest and finest bulbs should be reserved for this purpose. The smaller the bulb the earlier it should be planted to obtain a flower and to insure another good bulb in the fall.

"Montbretias may yet be of some value for cut flowers. I believe they will yet attain great popularity. They can be forced easily. Crocosmiæflora is about the best we have as yet."

"What is your experience with the Lemoine hybrids?"

"My impression is that they will never attain the popularity of the old species. Their only point of superiority is their intense coloring. A bad point about them is the hardness of the stalk, which prevents their opening the buds well in water after being cut, as the ordinary gladiolus does."

"Have you ever attempted any systematic hybridizing of gladioluses with a view to obtaining new varieties?"

"No, we just plant them together and save the seed. With such enormous quantities as we are growing we stand about as good a chance of striking valuable ones as if we hybridized carefully."

"Do you import any gladioluses?"

"No. There are very few imported nowadays. On the contrary, we are beginning to have large export orders. Gladioluses, in my opinion, will take the same course as tuberoses did. Europe is 'not in it' with us in growing gladioluses.

"We are much pleased with our success with pyrethrums this year. The general impression is that our climate is too dry and hot for them. Now we have just passed through one of the worst seasons we could possibly have. From the middle of April to July we have had scarcely any rain, yet our pyrethrums are in splendid shape, and we have not lost a plant. If the soil is deeply and finely worked they will do. They should always be transplanted and the roots divided about the middle of September. By this means the stock will be about trebled annually.

"Pyrethrums are hard to ship. If the crowns get a little heated they are gone. Many are thus lost in coming to this country from the other side. The single varieties seed rapidly, and they are very pretty, but the double ones are the standard and these are very difficult to seed. April and May is their blooming time, and the flowers of the double white and double bright rose sell well in the cut flower market."

"Is anybody in this country hybridizing pyrethrums?"

"Not that I know of, but I believe it would pay somebody to go into it."

"Have you any information of interest regarding any other of your specialties?"

"I will only add that single dahlias seem to have 'lost their grip,' and that canna 'Star of '91' will give great satisfaction as a pot plant."

MR. NORTON AT THE TELEPHONE.

"Hello, Central! Connect us with Horticultural Hall, Boston. We would like to talk with Mr. P. Norton, chairman of the committee of arrangements of the Mass. Hort. Society."

"Here he is. Go ahead."

"Mr. Norton, we would like to have you tell the readers of the FLORIST something about managing horticultural exhibitions."

"Don't ask me. You've got the wrong man. Try somebody that knows something about it. Why don't you wait until we see how the chrysanthemum show comes out, and then perhaps I'll talk to you."

"Well, so far as we can learn, the exhibitions at Boston have prospered exceedingly under your management, and this being the time of year when there are exhibitions everywhere, we feel confident that you can give us something of value to our readers, especially those who are interested in exhibitions, but who have had little experience in that direction. For instance, do you think it wise to offer prizes, the payment of which is unprovided for excepting in the prospective receipts from the show?"

"No, sir. Decidedly no. If you have no organization back of you strong enough to guarantee the payment of the premiums without regard to the show, go slow. Better a prize of $1 paid as agreed than $20 in a broken promise. Never disappoint your exhibitors by making promises that you cannot with certainty fulfill."

"How would you raise money in advance, provided there was no responsible horticultural society interested?"

"Well, about the only thing to do is to resort to a 'guarantee fund.' Especially will this be necessary at first, but with good management a standing fund should soon accumulate that would be sufficient."

"What do you consider the best course to pursue to interest the public and secure a large attendance at floral exhibitions?"

"Judicious advertising, of course. And in connection with this you want to secure the co-operation of the press. They are always ready, I find, to give their support to a worthy cause, if properly approached. See that they have the details of your plans well in advance; that they have an abundant supply of complimentary tickets; and during the time of the show see that they have all the attention and assistance possible in reporting the displays properly. To turn a reporter loose in a horticultural exhibition without a guide who is well posted on the names and the merits of the different exhibits is equal cruelty to the reporter and his readers. Another important point I would mention is a low admission fee. Just at present there is in Boston a food and health exhibition. It is wonderfully successful and the attendance is something remarkable. I attribute this largely to the low price of admission, 25 cents. If it were 50 cents they would get scarcely anybody; 25 cents is in my opinion as much as we should ever charge to admit to a horticultural show. In addition to this, I would advocate free admission at certain hours for the school children. This could be arranged through the school committees. By doing so you are not only implanting a knowledge and love of flowers in the minds of the children, and helping to lay the foundation for future attractive homes, but you will also find, I think, that the immediate interest in your enterprise will be greatly enhanced, and the public attendance largely increased. Get the women and children interested and you are safe.

"Of course, one of the principal factors in making a successful exhibition is to see that it is a meritorious one. But by all means have something which you can advertise that will appeal to the popular fancy for novelties. The 'Baby Flower,' the 'Century Plant,' the 'Holy Ghost Flower,' the 'Night-Blooming Cereus,' things which people have heard and read about, and in regard to which they have some curiosity; such things are 'leaders,' as was Jumbo in Barnum's circus, and to be successful nowadays with any kind of a show you must have your Jumbo in one form or another. It is a good plan to advertise special attractions for each day. The best day we had at our chrysanthemum show at Boston last year was a rainy day, when the attendance would naturally be light, but we had advertised it as 'Ladies' Day,' and that did the business for us. Good music is also a necessary adjunct to a floral exhibition. There are few attractions offered now for public patronage in which music is not given a prominent part and the floral exhibitions must keep up with the procession. Music and flowers, it will be conceded, make a good combination, and I believe the increased receipts will in most cases offset the additional expense."

"What is your experience regarding the comparative acceptability of money or plate as premiums to exhibitors?"

"Well, to the young beginner, whose resources are small, of course money is most acceptable, because of necessity.



VIEWS AT WASHINGTON PARK, CHICAGO, FROM PHOTOGRAPHS TAKEN THE PAST SUMMER.

But as a general thing cups or medals are more of a stimulus, and when won are a source of pride, especially to the gardeners' wives, who like to show their treas ures to visitors and to whose homes they add an attractive ornament. It is also a big advantage to a gardener changing his place to have such evidences of his skill to carry with him. It is a wonder to me that private gardeners do not exhibit more than they do. Everything is in their favor. They get most of the glory and their employers pay the bills incurred in producing fine plants. The advertising which a gardener gets by being a successful exhibitor is more than most of them are aware of. Look at Mr. Manda, for example. Would he ever have attained that reputation which opened the way for him to his present commanding position if he had not made his abilities known through the medium of exhibitions. I doubt it.

"On no account should exhibitors be permitted to advertise their business on the exhibition cards. Nothing should be allowed thereon except the name and address. The non-observance of this rule creates a fearful amount of jealousy. By all means keep 'shop' out of your exhibitions."

"How about the arrangement of exhibits in the hall? Can you give us any advice about that?"

"Ah, there's the trouble. You can tell nothing about it till you know what is

coming, and the gardeners don't like to tell their intentions lest their competitors should find it out. So they hold back until the last moment. But it would be much better for everybody if they would let the chairman of the committee know beforehand what they propose to exhibit.

"For the exhibition of cut flowers we have found tables about 2½ feet in height, covered with white cloth or paper, to be the most suitable. We have found nothing better in which to arrange them than the clear glass vases which we have had made specially for our use. In shape they are somewhat similar to the 'Tye's Pattern' hyacinth glass, only that the neck is considerably narrower and taller in proportion. The white paper as a background shows off the colors of most flowers much better than does the green moss which is sometimes used to bank them in. Rhododendrons, however, with their own foliage look better in the moss.

"The final awards on cut flowers should not be made until the closing day. Exhibitors should be required to keep their displays fresh by renewals every day or second day during the continuance of the show. We have adopted this rule not only with flowers, but with vegetables and fruit, and we find that it works well. It keeps up the rivalry and insures a presentable exhibition to the last moment.

"All premiums should be open to general competition, and not confined to members of the society. Stringent rules regarding the removal of any plants or flowers from the hall except under the supervision of some responsible person are very important.

"One thing you cannot have too much of in managing horticultural exhibitions is system. The secretary should keep a list of all exhibitors, whether prize takers or not, as well as a full record of what they show, and to accomplish this all intending exhibitors should be required to furnish to the secretary a complete list of all their exhibits. The record will be found almost indispensable next year when making preparations for another show. The less fortunate ones this year may be the prize winners next year, and you want to know them all. When you find it desirable to get people together to consult regarding special prizes, etc., you know whom to send for."

"Do you think that the arrangement of exhibits should be left entirely to individual contributors?"

"Well, arranging a hall for convenience in judging and for general effect are two entirely different things. It is my opinion that we should make a great advance in our exhibitions if after the judging had been done the hall should be put into the hands of a competent committee, who should have full power to arrange the display for effect. Some of the plants under such an arrangement would scarcely be recognized, even by their owners. Now, I would just like to say one word more, and then I am through. We want a good label holder that can be used to fasten labels quickly and securely to vases and dishes, and hold them in convenient position for reading. There is a good chance for somebody to turn his ingenuity to a practical and profitable use."

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

New York.

Mr. Thomas W. Weathered has just returned from a visit to England, where he has been spending the summer.

Burns & Raynor are removing to larger and more convenient quarters at 49 West Twenty-eighth street.

Mr. August Rolker sailed on the steamer Fulda on October 24, for a trip to Genoa. He hopes to return completely restored to health.

Chrysanthemums are coming in too fast. Gloriosum is badly overstocked. This and other cheap varieties have been sold as low as $30 per 1,000 sprays. Roses and carnations are beginning to feel the effect of the chrysanthemums. Violets and valley, however, are scarce and in brisk demand. The supply is entirely inadequate. Smilax is badly overstocked. Cusins are very fine and Wabans are improving. Some very fine Hostes are coming in. Some of the growers are talking up a scheme of selling flowers at auction. Whether it will result in any action is doubtful. It would be a novel idea and worth trying, if somebody is willing to take a risk.

The auction sales during the past week have been very successful. M. Louise violets have sold for $14, $15 to $20 per 100. A lot of cycas plants were sent in with a certain limit set upon them. They brought double the limit. A pthychosperma that was passed by on Tuesday at $5 brought $31 on Friday, and a seaforthia which could not get a bidder on Tuesday at $3 brought on Friday $17. But this is only an instance of the "phenomena of auction sales," as Robt. Young would say.

It is asserted that a determined effort is to be made to popularize the Cape Jessamine in New York the coming season.

Charles Thorley's refrigerator is the ideal arrangement for a well-kept florists' establishment. The devices for maintaining a moist atmosphere by the constant dripping of water are excellent, and the spotless tiles with which the walls and floor are lined, together with the arrangements for electric lighting, are calculated to show off the flowers to very best advantage.

The first meeting of the season of the Torrey Botanical Club was held at Columbia College on the evening of October 13. Dr. Thomas Morong gave an interesting account of his investigations of the vegetable growth in fresh water ponds in the vicinity of New York. There has been found within an area of 60 miles no less than 47 distinct species. After some further legislation, which is to be acted upon next winter, it is expected that the proposed plan for a botanic garden at Pelham Bay Park will be successfully carried through. Assurances of substantial support from men of means have been received.

At V. H. Hallock & Son's there is a splendid stock of Eulalia gracillimum univittatum. This most effective grass is not commonly known here yet. It is not quite so tall as E. Japonica, and the flower plumes are a little better than in that species. The foliage is exceedingly graceful, equal, in fact, to that of Dracæna indivisa. Introduced by Lemoine.

Whatever prejudice may exist in one's mind against artificial flowers is apt to be largely dispelled by an examination of this year's importation by Rolker of metal and porcelain memorial designs. The imitations of natural flowers are wonderfully lifelike, and their arrangement in many of the designs is most artistic. It is a rare thing to see fresh flowers put together with so much taste, and many of our florists could learn a valuable lesson in artistic arrangement from some of these artificial productions.

The New York *Herald* for October 18 contains a two column contribution upon the history of the chrysanthemum and the purposes of the managers of the coming exhibition at Madison Square Garden, interspersed with more or less lifelike portraits of Messrs. John Thorpe, W. A. Manda, A. Ladenburg, A. S. Burns, John H. Taylor, J. R. Pitcher, J. W. Morrisey, and T. H. Spaulding. It is quite a good paper, and will go a long way toward interesting the public in the show. But just fancy the figuring that will be done on the strength of the following statement: "A single chrysanthemum plant produces from 150 to 200 blossoms. Good varieties bring $25 per 100 wholesale." More proof of the rapid accumulation of wealth by the florists!

The New York *News*, in a recent article, outdoes the *Herald*, however. It represents a "Broadway florist" as saying: "The flowering jacquimot, which generally is barren of much bloom, has surpassed some of the other less important roses. I think the weather has had a great deal to do with this growth among the flowers." It then quotes thus from another "successful florist:" "Our trade is much like the grocery business. When certain products are scarce and prices go up, what little stock we happen to have we make profit on; when the same articles are plenty everybody can afford to buy them, and by selling quantities we make as good a margin. So no matter which way the wind blows the florist is usually on the safe side." Happy man!

Further on the scribe gets bolder, and launches out on his own hook, without the quotation marks. Here is how he succeeds: "Mrs. Wm. Astor, who has for many years had a striking penchant for chrysanthemums, had a modest bunch of the *Golden Lady Alpheus Hardy* upon her chatelaine belt." Strikingly modest that was! Another society lady's favorite corsage is given as "three large chrysanthemums, two purple asters, one white rosebud, and two small cream-colored dahlias." As if to apologize for the lady's extravagance, he adds: "She is a stately woman, and can carry to perfection a queenly amount of ornamentation." After all this we are prepared not to be surprised at the further information that at a certain reception last *August* a lady wore a "gown elegantly trimmed with rows of *orange daffodils*." Next!

Philadelphia.

The regular monthly meeting of the Pennsylvania Horticultural Society was held October 20. As the annual meeting takes place next month, the following gentlemen were nominated for election at that time: For president, Geo. W. Childs; for vice-presidents, four to be elected, Robert Craig, George W. Earle, W. A. Reed, M. D., Chas. H. Miller, Robert P. Harris, M. D.; recording secretary, D. D. L. Farson; corresponding secretary, Edwin Lonsdale; treasurer, W. H. Smith.

The names of John Bardsley and H. H. Kennedy were dropped from the rolls, as these gentlemen, heretofore prominent in business circles, are now serving sentences in prison of fifteen and ten years respectively for defrauding the city out of large sums of money.

The coming chrysanthemum show received a great deal of attention and the various committees reported that everything pointed to a great exhibition. Bus-

iness the past week has been spasmodic; one day very good, the next very little doing. Flowers are plenty with the quality getting better every day.

Anderson is cutting some very fine Albanys and La France. Harris is sending in some specimen flowers of Ivory and Eldorado chrysanthemums with long stems. He was very unfortunate in losing nearly all his seedlings of this year. In the hurry of last Easter the little plants in the seed bed did not receive the attention they required and damped off. This lot would no doubt have turned out some fine varieties, as the flowers from which the seed was taken were hybridized with great care. He has some seedlings carried over from last year which promise very well.

We note with pleasure that the Washington florists have the "market" problem under serious consideration. A wholesale market for cut flowers is bound to come in every large city; it only wants united action on the part of a few large growers to start it; started, it is sure to be a success and everybody will wonder how they ever managed to get along before.

Your New York correspondent is in error when he says that the Florists' Bowling Club of Philadelphia challenged the New York club. It was the other way, as the Philadelphia boys received the challenge and accepted it. The matches will take place as reported.

Anderson is rolling in great shape at present, he having broken two records the past week. The first was for three games, making 559 pins, an average of 186⅓ to a game; the second was on Thursday last in a match, when in the first game he made 246 pins.

Hugh M. Hughes leaves Philadelphia on Saturday, Oct. 24, for Chicago, where he has secured a position as assistant to Mr. R. Ulrich, Superintendent of Landscape Department of the World's Columbian Exposition. He should be well qualified for the work, as he was for many years with his father, who served under the celebrated landscape gardener, Milver, of London, and who had charge of the large estate of John Platt, Esq., in North Wales. After he came to this country he was for several years first assistant to his brother, Jno. M. Hughes, at "Wootton," the country place of Geo. W. Childs, Esq. After leaving "Wootton" he took entire charge of the grounds (300 acres) and greenhouses of E. DeV. Morrell, Esq., Torresdale, Pa., to the entire satisfaction of his employer. He carries with him from Philadelphia the best wishes of his many friends.

Boston.

The activity in the cut flower trade still continues. Lily of the valley is in very general demand and is hard to obtain in quantity. Violets are scarce; many more could be sold if they could be procured. Roses sell well at prices slightly advanced. Carnations if of good quality sell rapidly from $1.50 to $2 per 100. The finest box of white carnations seen here this season was a lot of Lamborns sent in by a Maine grower. Chrysanthemums are very abundant; the quality is uniformly good. Specimen blooms on long, strong stems are coming in freely.

At the Nobscot greenhouses, South Sudbury, where Jas. Tulis is gardener, there is a house of over 2,000 Grace Wilders, which are remarkably fine and healthy. There are 10,000 of Mrs. Fisher being grown there also, besides Florence, Silver Spray and Hector, all of which look vigorous and promising.

The annual free distribution of the surplus plants at the city greenhouses took place on October 20; 50,000 plants and about 400 baskets of loam was the amount thus disposed of, the recipients being mostly women and children, and many a humble home will be made brighter this winter in consequence.

It is a most encouraging indication of the increasing popularity of plant decorations to see the very general use of palms and decorative plants in connection with the various exhibits at the great "Food and Health" exposition at Mechanics Hall this week. Very few of the stands are lacking in ornamentation of this sort, and in many of them considerable money has evidently been expended for plants.

It is said that Mr. P. Welch, the wholesale florist, is about to follow the good example set for him by his two brothers and thus there will soon be another Mrs. Welch.

Chicago.

The meeting of the Florist Club held last Thursday evening was one of the largest in the history of the club. The room was crowded and the "standing room only" sign was in order early in the evening.

After the preliminary routine business had been disposed of Mr. Wm. Kirkham read a paper on the chrysanthemum, an extract from which appears on another page, together with a synopsis of the discussion that followed.

Two applicants were elected to membership and as three were elected at the previous meeting the membership list is still steadily growing.

This was the annual meeting, and officers for the ensuing year were elected as follows: G. L. Grant, Pres.; Joseph Curran, Vice Pres.; F. F. Benthey, Sec'y; P. J. Hauswirth, Financial Sec'y; E. Weinhoeber, Treas., being a re-election in each case and by acclamation.

The club by vote authorized the president to subscribe $200 to the guarantee fund of the Horticultural Society to insure the payment of premiums and other expenses incidental to the coming exhibition of the society. The society has a fund of $1000 already subscribed and proposes to considerably increase it so that in case of a shortage through unfavorable weather during exhibition week or other causes the percentage for each guarantor to pay will be small.

Each member was given a bundle of advertising placards as he left the meeting and the city is now pretty well decorated.

Fourteen members participated in the adjourned session and some fearful and wonderful scores were made. Mr. McAdams, who raised his score to 240 two weeks before, cancelled the 2 on this occasion and didn't seem to be at all proud. One of the boys who was making his first attempt made bushels of fun by getting his ball into the gutter when less than six feet down the alley. He accumulated a most gorgeous string of "poodles."

The ladies selected to act as judges of floral arrangements at the exhibition are responding favorably to the invitations sent them and the committee promises to be a large one. In their acceptances each one of the ladies expresses appreciation of the compliment to her taste implied by the invitation and their friends will undoubtedly all hear about the exhibition without delay.

The market continues quite brisk, but the supply is better than last week. There is no longer such a scramble for stuff as there was the week previous. Stock is by no means over plenty though and really good stuff finds a ready sale. Am. Beauties are scarce and the quality rather poor. Carnations are very good and fairly plentiful, except white, which are scarce. Chrysanthemums are coming in more freely and meet with a ready demand. Common flowers sell at wholesale for $3 and $4, good stock at $5 to $6 and fancy from $10 to $15. Violets are reported by the growers as very backward and in most places looking poor. The outlook for this favorite flower is not very bright. Bouvardia also is rather slow in coming forward. Callas in small quantities and a few camellias are making their appearance.

Frank Benthey is displaying some splendid chrysanthemum blooms in his window. They are from plants grown to single stem and flower and the largest of them sell for 50 cents each, the remainder bringing 25 cents each. Among the sorts displayed in his window last Monday were specimens of Alcyon, 8 inches in diameter; Mrs. Frank Clinton, 6 inches; Mme. F. Cariel, 5; John Thorpe, 8; Mrs. Hicks Arnold, 4; Mme. C. Carrier, 6; Domination, 6½; Shasta, 5; Gorgeous, 4½; Walter W. Coles, 6½. Also large blooms of Ed. Andre, Louis Boehmer and other sorts. They were certainly remarkably handsome blooms for the season, and as Frank has not lost a bloom yet he feels pretty well satisfied in spite of the fact that at the last meeting of the Florist Club some were inclined to think he had made a bad bargain in contracting for these flowers. But as he has got to take the whole crop he is not inclined to congratulate himself much until he sees how great his losses will be later when the glut is on.

Mr. John Thorpe has been quite under the weather of late from an attack of rheumatism. He was confined to the house for some time last week and though again at his desk he is looking far from well.

Toronto.

Our genial friend, Mr. F. G. Foster, of Hamilton, accompanied by Mr. S. Aylett, gardener to Senator Sandford, also of Hamilton, were in attendance at the last regular meeting of the Gardeners' and Florists' Club.

Mr. John Chambers is at present taking a well earned holiday somewhere in the wilds of Wayback shooting deer and smaller game.

Florists are increasing in this city to an alarming extent, no less than three being reported during the last month as having been presented to their respective parents.

The club has ordered 200 of the beautiful lithographs published by the Courier Litho. Co. of Buffalo for advertising chrysanthemum shows. These lithographs are finely executed and will no doubt have a large sale.

Mr. Chas. Arnold will take charge of the flower booth at the chrysanthemum show this year.

A medal has been presented for competition by an unknown gentleman for the best collection (25 plants) of chrysanthemums grown in six-inch pots or smaller.

A few chrysanthemums may now be seen in the city stores, mostly Gloriosum. All outdoor flowers are things of the past now—10 degrees of frost this morning (23rd), the lowest yet. Leaves falling in showers.

The club has had to pay a large sum for the use of the Horticultural Pavilion for the 12th of November (Thanksgiving

day), some other parties having engaged it ahead for a concert. However being a holiday it is hoped that nothing will be lost, but something gained. We do not intend to be caught napping again and have already engaged the pavilion for the second week of November, 1892. Five ladies will judge the design work at the coming show. E.

News Notes.

WORCESTER, MASS.—H. B. Watts & Son have opened a retail store at 545 Main street.

BAY CITY, MICH.—The dates for the chrysanthemum show have been changed to November 16 to 21.

MACOMB, ILL.—Pillsbury & Gessler are building a new greenhouse 80x20, to be use mainly for growing cut flowers.

YPSILANTI, MICH.—The greenhouses of the late L. E. Childs have been leased by his widow to Mr. Chas. Kyrke, who has succeeded to the business.

OTTAWA, ONT.—The Gardeners' and Florists' Club of this city are considering the matter of arranging for an annual exhibition of plants and flowers.

NEW HAVEN, CONN.—The New Haven Chrysanthemum Club has decided upon November 10, 11 and 12 as the dates for the coming chrysanthemum show.

ST. JOSEPH, MO.—Mr. Hans Neilson has been ill with typhoid fever for the last three weeks. He is now slowly recovering, though still unable to attend to business.

WILMINGTON, DEL.—The florists of this city, in connection with the Junior Board of the Homeopathic Hospital of Delaware, will hold a chrysanthemum show November 12, 13 and 14.

HARTFORD, CONN.—The Hartford County Hort. Society has postponed the chrysanthemum show one week. It will be held November 9 to 11 instead of 3 to 5, as previously announced.

GALT, ONT.—The Galt Horticultural Society has changed the dates for the chrysanthemum show from November 11 and 12 to the 10th and 11th on account of an engagement of the hall on the 12th for another purpose.

ATLANTA, GA.—At the meeting of the Atlanta Horticultural Society on the 14th inst. President Gould told what he knew about the chrysanthemum to an interested audience. The society decided to make an exhibit at the Piedmont Exposition.

HAMILTON, ONT.—At the annual meeting of the Gardeners' and Florists' Club, held on the 20th inst., officers for the coming year were elected as follows: Samuel Aylett, Pres.; J. W. Fox, Vice-Pres.; F. G. Foster, Treas.; H. Brown, Sec'y (re-elected).

BAY CITY, MICH.—The railroads have made excursion rates to this city for the time of the chrysanthemum show and it is expected that crowds will come from all over the state. The excursion rate from Detroit is only $2 and as the exhibition there comes earlier we expect visitors from that city.

PITTSBURG.—At the meeting of the Pittsburg and Allegheny Florists' on the 13th inst. it was decided to make the price of admission to the coming exhibition 25 cents for adults and 15 cents for children. One of the best orchestras in the city has been engaged to supply the music for the occasion. The committees are all hard at work and the outlook for a successful show is very bright.

TOLEDO, OHIO.—The barn, stable and carriage house of George A. Heinl on Cherry street were destroyed by fire on the night of October 16 together with one greenhouse and contents. The horses and delivery wagons were with great difficulty saved and but for the very prompt response of the fire department great loss to stock would have resulted, as the barns were joined on to the greenhouses. Loss about $600, fully covered by insurance. Cause unknown.

LOUISVILLE, KY.—An elaborate wedding decoration was recently arranged by Nanz & Neuner. The whole house was decorated with American Beauty roses and asparagus vines. Over 800 Beauties and 300 strings of asparagus were used. The church was decorated with fine palms and large vases of American Beauty roses. The bride carried a bouquet of lily of the valley. At the house the roses were arranged in tall vases, 25 in each vase, and placed all over the house. The mantels were banked with American Beauties also. It was pronounced one of the finest decorations ever seen in this city.

DALLAS, TEXAS.—The display in the Floricultural Department of the recent state fair was very creditable. Premiums to the amount of $556 were awarded and 2,500 square feet of space was filled with plants and flowers. In the open to all classes the majority of the first premiums were taken by J. M. Howell, the florist of this city, and in the amateur classes by Mrs. J. F. Metcalf. The Texas State Horticultural Society will meet in this city July 20 to 22, 1892. Mr. J. M. Howell is president. The horticulturists of Texas are preparing to make a creditable display at the World's Fair at Chicago in '93.

Miscellaneous Plant Notes.

BY WM. FALCONER.

CANNAS FOR WINTER BLOOMING.—Mr. J. T. Temple, of Davenport, Iowa, writes me: "I have a large bed of cannas in a greenhouse for winter blooming; have 50 Star of '91 and 50 Mme. Crozy in it. But I prefer the Star, as it blooms on smaller plants and more freely than Mme. Crozy. With callas, poinsettias and other plants of this sort, I think they will be fine for Christmas decorations.

ROSES VS. SOMETHING ELSE.—Mr. Temple also writes: "Roses are pets of mine, but when they sell for 35 to 50 cents per dozen, retail, as I saw them sold in Chicago last January, it will take a long time to get rich at that rate, so we have got to search around for something else. * * * I think you struck a keynote when describing the beautiful first premium mantel decoration made by David Allan at Boston last year, when you mentioned that there wasn't a rose in it.

BERRY-BEARING PLANTS.—Mr. Temple has got them on the brain. But he is as sound in the head as he is solid in the flesh. It was only last year he sold pot plants of Callicarpa purpurea in ripe fruit for $5 each, and he declared to me they really looked so pretty he didn't care much to part with them even at that price! Now he has got another subject, and he writes: "Did you know that

"THE NIGHT-BLOOMING JESSAMINE (Cestrum Parqui) makes a good berry-bearing plant? I had a plant bloom profusely last year, and it was covered all over with small white berries from December to June, kept in a cool greenhouse." Yes, I used to grow it. And about eleven years ago my old friend, the late Mr. Greenlaw, of Boston, when he saw it laden with ivory berries declared it to be one of the handsomest and most unique things he had ever seen in the way of a greenhouse plant, and was delighted to get some cuttings. But although it is an old plant, it has never met with the approval it deserves. Although its flowers are sweet-scented, they are not showy, and it comes of a race which has very ill-smelling leaves. Mr. Temple does not know whether he has made an

"ORIGINAL DISCOVERY or not. But some three years ago I noticed that Clematis Jackmanii produced more blossoms at the top of the trellis than near the bottom of it, and the most flowers of all were produced on the suspending branches falling from the top of the trellis down again to near the ground. So I made a trellis with a bracket on each post and two wires on top and 7 feet high, and planted the vines against the trellis, and when they got to the top they drooped over from the wires strung across the brackets, and you ought to see the sight! Cobæa scandens, maurandias, Clematis Jackmanii, C. coccinea, Solanum jasminoides, etc., have more than double the amount of bloom that other vines of the same sorts and trained straight up as far as they will climb have. It is about on the same principle as taking a wistaria vine and training it to a pole, allowing the side branches to hang down again; these suspending branches will bloom far more fully than those kept straight up. I am going to try it on grape-vines."

"CLEMATIS PANICULATA.—What a grand thing this is for the retail florist for decorating! I cut some sprays 8 feet long covered profusely the whole length with its sweet-scented white flowers, placed the ends of them in a bottle of water, and they lasted six days. It ought to be better known;" and Mr. Temple continues:

"BOEHMERIA NIVEA, or Chinese nettle, makes a fine decorative plant when planted out on the lawn in summer. Not hardy.

"HYPERICUM CALYCINUM grown as a pot plant is a good thing, and very useful at Easter. Although generally considered a hardy herbaceous perennial or partly shrubby plant, in the north its hardiness is precarious, and although it may survive the winter well enough under a mulching, it is most useful to me as a pot plant.

"ANTHERICUM LILIASTRUM major is a fine, hardy perennial, useful for the florist or amateur for early summer flowers. It is locally but erroneously known in this locality as 'squills.'

"AN OPEN-HABITED late-blooming golden rod is very well spoken of as a companion plant to Desmodium penduliflorum, as it blooms at the same time and has much the same graceful flowering form." But the commonness and weediness of golden rod in general militate against their favor for garden use, no matter how beautiful the species may be

PETUNIA HYBRIDA GRANDIFLORA var. SUPERBISSIMA, from California.—Mrs. Ella Gould, of Ventura, sends me flowers and photographs of some of her petunias. The blossoms are 5½ to 6 inches wide, beating our Glen Cove blooms of the same variety by an inch. Mrs. Gould is an enthusiast in the matter of petunias and devotes much attention to intercrossing the different varieties.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a young man, single, on either private or commercial place. Good references. Address G L, care Am. Florist.

SITUATION WANTED—By a German, middle aged, single and sober, some experience, want work in greenhouses only. Address F K, Springfield, Ohio.

SITUATION WANTED—By an experienced mushroom grower, none than a good position wanted, or will take a partner to go into the business. Address H B, care American Florist, Chicago.

SITUATION WANTED—By a florist and propagator; first-class landscape gardener; German, single, age 38; 20 years' experience. Address HENRY HELLER, 2219 Larimer St, Denver, Colo.

SITUATION WANTED—Jan. 1st or after, by young man thoroughly experienced in experimental gardening, including knowledge of notes, records, descriptions and classifications. Good references. F. A. WAUGH, 722 W. 8th St., Topeka, Kan.

SITUATION WANTED—Thorough, practical English gardener seeks engagement with a good florist or private family; well up in landscape work, and highly recommended. Address PRIDEAUX, 2½ Melrose St., Lawrence, Mass.

SITUATION WANTED—By young man, single; well up in growing roses, carnations, bulbs and general run of florist stock; good at forcing and propagating. Good references; western states preferred. VICKERY, 2 24 Ames Ave., Omaha, Neb.

SITUATION WANTED—German, aged 28, married, no family, 14 years' experience (10 in Germany), would like situation in florist's establishment, or could take charge of same; good references. Address F. SCHMIDT, care M. Dummett, Mt. Vernon, N Y

SITUATION WANTED—By a thorough practical florist and gardener. 20 years' experience, 6 years in last situation; fully competent to take charge of a first-class private or commercial place; good references. Address C H, care American Florist, Chicago.

SITUATION WANTED—By a practical gardener as manager of private or public grounds or large commercial plant; thorough knowledge of all branches; a successful hybridizer of orchids; unexcelled in palms, stove plants, roses, cut flowers, grapes, etc.; rockery and landscape gardening; 20 years' experience; unexceptional references; sober; married, with small family; only first class position desired. Address BOTANIST, Niagara St., Pittsburg, Pa.

WANTED—Florists to send their wholesale price lists to Secretary Maple Hill Floral and Nursery Co., Danville, Ill.

WANTED—Assistant in commercial place of about 4,000 ft of glass; one who understands growing general greenhouse stock; or will lease to good man. J. R. SHAVER, Charleston, W. Va.

WANTED—A competent man to grow roses, carnations, bulbs, and general stock of plants. Good references required. State terms, age, married or single. None but competent men should apply. JOHN RECK, Bridgeport, Conn.

WANTED—For our floral department a young man who has had several years' experience in selling and making up cut flowers. Must come well recommended. Apply by letter, stating age and experience. BROWN, THOMSON & CO., Hartford, Conn.

FOR SALE—Greenhouse business at Austin, Ill., cheap. Reason for selling, poor health. Address JOS. SHAW, Austin, Ill.

FOR SALE—A first-class retail florist business, palm greenhouse attached and well stocked with fine salable palms. Owner giving good reason for selling. Address W. M. HAYES, care Ellison & Kuehn, 1122 Pine St., St. Louis, Mo.

FOR SALE—Well established seed business. The North Star Seed Store and St. Paul Wire Works having been carried on together, and each having grown to such importance as to need my personal attention, I offer for sale the seed department at a bargain and on easy terms to a reliable party. The business is not confined to seeds but is supplemented with trees, plants, garden tools, stable fixtures, birds, gold fish, poultry supplies, etc., etc. the sales of which extend through the whole year. Long established; widely advertised; favorably known; centrally located, and with the seed buying community in a prosperous condition makes this a chance seldom offered. Bona fide buyers, address DE COU & Co., 21 W. 3rd St., St. Paul, Minn.

WANTED.

Assistant in commercial place of about 4,000 feet of glass; one who understands growing general greenhouse stock, and garden and nursery work, and can help lay glass and hot water pipes. Single man with good habits and recommendations, only need apply. Wages $25 per month and board. Address OTTO SCHUCHT, Sheboygan, Wis.

TO GARDENERS AND FLORISTS.

J. C. GOODING, the well-known rose grower, wishes to retire, and will dispose of his greenhouses, all well arranged, heated by steam, about 16,000 feet of glass, dwelling and barn; lot 160x350; good location, within city limits. Cash, half down. Address 1216 Euclid Ave., Cleveland, O.

Forcing Roses. First-Class.

ALL IN 4-INCH POTS.

American Beauty, Mrs. Jno. Laing, Magna Charta, Paul Neyron, Gen. Washington, Wootton, Capt. Christy, $10.00 per 100; $95.00 per 1000.

Duchess of Albany, Perle, Niphetos, Bride, Sunset, Souv. d'un Ami, Watteville, C. Soupert, Papa Gontier, La France and Luciole, $8.00 per 100; $75.00 per 1000.

We have lots of Roses in 2½-inch pots, **well grown, at 3 cts.** Send us $3.25 for a sample hundred of these, all labeled, **free by mail.**

WILSON BROS., Springfield, Ohio.

10,000 ROSE PLANTS.

Strong healthy stock in fine condition for planting, in 3-in. pots, $8 per 100; in 4-in. $10 per 100.

MERMETS, NIPHETOS, WATTEVILLE, LA FRANCE AND JACQS.

Cut Flowers, Smilax and Adiantum, 25,000 field grown Carnations. Hinze's White, Lamborn, Anna Webb and Portia, $8 per 100. New Scarlet Emily Pierson, $15 per 100. 25,000 Neapolitan Violets, strong clumps, ready in Sept., $8 per 100. **A. N. PIERSON, Cromwell, Conn.**

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants for immediate planting, price $20 00 per hundred.

WABAN ROSE CONSERVATORIES,

Edmund M. Wood & Co., NATICK, MASS.

Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Bon Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000.

TEA ROSES, 30 sorts, from open ground, extra strong, $4.00 per 100.

HERMOSA, strong plants, $6 00 per 100.

HYBRID PERPETUAL, sorts including JACKS, 2 years old, extra strong, $10.00 per 100.

Carnations.

Hinze's White, Fred Johnson, Orient, Portia, the Century, Mrs. Cleveland, Tidal Wave, J. J. Harrison, Petunia and Columbia.

1st size, $8.00 per 100; $70 00 per 1000; 2d size, $6.00 per 100; $50.00 per 1000.

Our carnations are strong, field-grown plants and perfectly healthy.

SMILAX. Good strong plants, $2.50 per 100; $20.00 per 1,000.

WOOD BROTHERS,

FISHKILL, N. Y.

CARNATION

GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "**DOROTHY,**" a seedling of 1888—one of the best.

Catalogue will be ready Dec. 10, '91. Send for it.

R. T. LOMBARD,

WAYLAND, MASS.

LIZZIE McGOWAN

Field-grown plants of the splendid New White Carnation. **LIZZIE McGOWAN,** $10 00 per 100. Late Spring struck plants, $5 00 per 100.

Late struck plants of LAMBORN, $5 00 per 100.

Very fine plants of HINZE'S WHITE, $5 00 per 100. Cash with the order. Address

H. E. CHITTY, Paterson, N. J.

The above offer is good only while plants remain unsold.

ROOTED CUTTINGS.

Geraniums,	Fuchsias,
Coleus,	Chrysanthemums.

The best of their kind. Send for price list.

S. B. FIELD, Roselle, N. J.

ROSES.

Very fine plants of the following varieties from 3-inch pots, purchaser's selection, $8 per 100; our selection, $7 per 100.

Andre Schwartz,	Madam de Watteville,
Arch Duke Charles,	Madam Lambard,
Adam,	Marechal Niel,
Adrienne Christophle,	Madam de Vatry,
Bon Silene,	Papa Gontier.
Cels,	Queen's Scarlet,
Charles Rivolli,	Safrano,
Duchess de Brabrant,	Sprunt,
Lucullus,	Souvenir d'un Ami,
Louis Phillippe,	White Daily.

Send for Wholesale price list, now ready.

MICHEL PLANT AND SEED CO.

St. Louis, Mo.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.

ROSES.

H. P., MOSS, AND YELLOW, leading varieties, very strong plants, and a large quantity of Anemone Japonica, white, which are offered at low prices.

GEO. MOULSON & SON,

Union Nurseries, ROCHESTER, N. Y.

Field-Grown

CARNATIONS

Hinze's White, Garfield, Portia.

Very strong plants, in bud and bloom, $8 00 per hundred.

L. HEINL, Terre Haute, Ind.

FERNS. FERNS.

We offer well established in 2½-inch pots, at

$3.00 PER 100.

Adiantum cuneatum,	Anemia phylisus,
Adiantum pubescens,	Onychium japonicum,
Pteris serrulata.	

JOSEPH KIFT, West Chester, Pa.

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Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

San Francisco, Oct. 28-30—California State Floral Society. Emory E Smith, Sec'y, 321 Market St.
New York, Nov. 2-8—Madison Square Garden. J. W. Morrisey, Sec'y.
London, Ont., Nov. 3-5—Forest City Florists' and Gardeners' Society. Wm. Gammage, Sec'y, P. O. box 155.
Wooster, O., Nov. 4-6—Wooster Floral Club. W. A. Porter, Sec'y.
Erie, Pa., Nov. 5-7—Erie Chrysanthemum Club. H. Tong, Sec'y.
Hartford, Conn., Nov. 9-11—Hartford Co. Hort. Society Edwin A. Taylor, Sec'y, P. O. box 1015.
Detroit Mich., Nov. 9 13—Detroit Florists. Robert Flowerday, Sec'y, 460 John R St.
Louisville, Ky , Nov. 9-14—Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
Galt, Ont., Nov. 10-11—Galt Hort. Scciety. Thos. Vair, Sec'y.
Pittsburg, Nov. 10-12—Pittsburg and Allegheny Florists' and Gardeners' Club G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.
Newport, R. I., Nov. 10-12—Newport Hort. Society. John Butler, Sec'y, Berkeley Ave.
Toronto, Ont., Nov. 10-12—Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School Toronto.
New Bedford, Mass., Nov. 10—12—New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.
Washington, D. C., Nov. 10-12—Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St N. W.
Oshkosh, Wis , Nov. 10-12—Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.
New Haven, Conn., Nov. 10-12 New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 478 Orange St.
New Britain, Conn., Nov. 10-12—New Britain Hort. Society.
Boston, Nov. 10-13—Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall.
Philadelphia, Nov. 10-13—Penn. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall.
Chicago. Nov. 10-13—Hort. Society of Chicago. G. L Grant, Sec'y, 54 La Salle St.
Minneapolis, Minn., Nov 10-13— Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.
Baltimore. Nov. 10-13—Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.
Indianapolis, Nov. 10-14—Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.
Germantown Pa., Nov. 10-14—Germantown Hort. Society. Thos. E. Meehan, Sec'y.
Worcester, Mass., Nov. 11-12—Worcester County Hort. Society. E. W. Lincoln. Sec'y, 5 Oak St.
Montreal, Nov. 11-12—Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.
St. Louis, Nov. 11-13—St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania Ave.
Springfield, Mass., Nov. 11-13—Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St
Utica, N. Y., Nov. 11-13—Utica Florists' Club. J. C. Spencer, Sec'y.
Syracuse, N. Y., Nov. 12-13—Central New York Hort. Society. H. Youell, Sec'y, 228 Beecher St.
Buffalo, Nov. 12-14—Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.
Providence, R. I., Nov. 12-14—Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.
Wilmington, Del., Nov. 12-14—Florists of Wilmington
Bay City, Mich., Nov. 16-21—Bay County Hort. Society. T. J. Cooper, Sec'y, 811 N. Water St.
New Orleans, La., Nov. 17-19—New Orleans Hort. Society. Charles Wise, Sec'y, Third and Prytania Sts.
Milwaukee, Wis., Nov. 17-20—Wisconsin Florists' and Gardeners' Club. C. B. Whitnall, Sec'y, Milwaukee.
St. Paul, Minn., Nov. 17-20—St. Paul Florists. L. G. Venzke, Sec'y, 131 East Sixth St.
Little Rock, Ark., Nov. ——Little Rock Florists' Club. D. M. Tipton, Sec'y.
Philadelphia, March 29-April 1—Penn. Hort. Society. D. D. L. Farson, Sec'y Horticultural Hall, Broad St.

ADVERTISING THE EXHIBITIONS.

The Horticultural Society of Chicago has through its advertising committee prepared the newspaper advertisements which it will use during exhibition week and is having them put into type by a job printer and a hundred copies run off. The plan of having the advs. printed on slips in advance was first undertaken simply on account of the convenience in being able to at leisure have the displaying of the matter properly done for the papers to follow and in having a number of copies as the various papers must of course be given copy simultaneously and the cost of making a dozen or fifteen written copies almost equals that of having the type set. And again there is no chance for errors in the printed copies as there would be with the written ones. But the society has thought of another purpose to which these slips may be put. Enough extra copies have been printed so that the society can send a set to each of the other organizations giving exhibitions. And this will be done, with a request for proofs of the advs. prepared by the others and thus secure the benefit of the advertising ideas of all giving the matter thought.

We believe that this is an excellent move and would recommend that other organizations adopt the plan of having their advs. printed in advance on slips, so that the exchange may be general. That such exchange would be mutually beneficial none can doubt. If each society originated one good advertising phrase all would then have 30 or more good ones to work with. We are all working in a common cause and should fully utilize every opportunity to assist each other.

SEVERAL DOZEN blooms of the new rose, Madame Pierre Guillott, have been sent us by Messrs. C. Strauss & Co., Washington, D. C. It is certainly a most beautiful rose and possesses the qualities that will make it very popular with flower buyers. It is in the way of Mme. de Watteville, but apparently a decided improvement upon that variety, and we are assured by a number of growers who have tried the rose that it is very profitable from the growers' standpoint as well as a quick seller over the counter. One thing is certain, such blooms as those sent us will never lack a purchaser at a fair price so long as there are buyers in the market.

THE Bay County Horticultural Society, of Bay City, Mich , announces that owing to the backwardness of the chrysanthemums it has postponed its exhibition until November 16 to 21. This exhibition is being very liberally advertised and barring unfavorable weather or other unavoidable cause this, the first exhibition of the kind held in Bay City, will undoubtedly be the success its promoters anticipate. And from the amount of work done the fullest success is certainly deserved.

C. J. PENNOCK, "The Pines," Kennett Square, Pa., writes that he has dropped the "Mammoth" from the name of his new white seedling carnation for the sake of brevity, and not on account of any diminution in the size of the flowers. It will hereafter be called the "Pearl."

WHEN sending out premium lists, mail copies to the secretaries of other organizations giving exhibitions. Each organization should have the benefit of the ideas of all the others. See addresses of secretaries in our list of coming exhibitions.

SOME very excellent tuberous begonia flowers were received from Messrs. Brauer & Richter, McConnellsville, O., on the 21st inst. They were of very pleasing shades, of good substance, and the petals of some of the flowers were frilled.

WATCH our list of coming exhibitions. The changes recorded in this issue are almost as numerous and radical as last week.

REMOVAL.

BURNS & RAYNOR,

Wholesale Florists,

HAVE REMOVED TO

49 West 28th Street, NEW YORK,

where they will have larger store space and better facilities for their rapidly increasing business. Their method of **Shipping Roses** has given them a large out of town trade and for good flowers, especially **Beauties** and **large Mums** the above address is **Recognized Headquarters.**

CUT SMILAX

Over ¼ acre solid beds. First-class quality, 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.

JOSEPH E. BONSALL, 308 Garfield Ave , Salem, O.

"ON TIP-TOE FOR A FLIGHT"

Describes the charming airy grace of the Sweet Pea bloom as only Keats could do it; it also describes the condition of my stock of

Sweet Peas for Winter Blooming

except that a larger lot of them have flown since I announced the stock in these columns.

ONLY A FEW MORE LEFT.

$1.50 per doz.; $5.00 per 50; $8.00 per 100; $70 per 1000.

Edwin Lonsdale,

Chestnut Hill, PHILADELPHIA.

Mention American Florist

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price list write for same.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.

E. J. HARMS,
Wholesale Dealer in
CUT FLOWERS,
And Florists' Supplies.
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.
PHILADELPHIA.

C. STRAUSS & CO.
GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

CUT FLOWERS.
The Western Trade Solicited.
Write or Telegraph.
SMITH FLORAL CO.,
77 7th Street S. - - Minneapolis, M

WHOLESALE
CUT FLOWERS.
GOOD ROSES FOR SUMMER TRADE.
Write for prices.
J. M. GASSER,
101 Euclid Ave., CLEVELAND, OHIO.

GEO. MULLEN,
WHOLESALE FLORIST.
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

Wholesale Markets.

Cut Flowers.

NEW YORK, Oct. 26.

Roses, Gontier	2.00@ 3.00
" Niphetos	1.50@ 3.00
" Perle, Cusin	2.00@ 3.00
" Mermet	2.00@ 4.00
" Bride	3.00@ 4.00
" La France	3.00@ 8.00
" Watteville	2.00@ 3.00
" Albany	4.00@10.00
" Beauties	5.00@30.00
Lily of the Valley	6.00
Carnations	.75@ 1.25
Chrysanthemums in sprays, common	5.00@10.00
Chrysanthemums, specimens	12.00@30.00
Violets, per 100	.50@ 1.00
Smilax	5.00@10.00
Adiantums	.75@ 1.00

BOSTON, Oct. 26.

Roses, Gontiers	1.00@ 2.00
" Niphetos	3.00@ 4.00
" Perles, Sunsets	3.00@ 4.00
" Mermets, Brides	4.00@ 5.00
" La France	5.00@ 6.00
Carnations	1.50@ 2.00
Valley	5.00@ 6.00
Tuberoses	1.00
Chrysanthemums, common	2.00@ 3.00
Chrysanthemums, specimen blooms	10.00@20.00
Smilax	10.00@12.00
Adiantums	1.00
Asparagus	50.00

PHILADELPHIA, Oct 26.

Roses, Beauties	12.00@20.00
" Mermets, Brides	4.00@ 5.00
" La France, Albany	4.00@ 5.00
" Cusins, Watteville, Hoste	3.00@ 4.00
" Perles, Niphetos	2.00@ 3.00
" Pierre Guillots	4.00@ 5.00
" Gontiers	1.50@ 2.00
Valley	8.00
Carnations, long	1.00
" short	.75
Smilax	15.00@20.00
Adiantums	1.00
Chrysanthemums, large, fine grown	12.50@20.00
" ordinary	1.00
Pansies	50
Violets, single, bunches	3.00@ 4.00

CHICAGO, Oct. 27.

Roses, Am. Beauties	12.50@18.00
" Perle, Niphetos	3.50@ 5.00
" Gontiers, Hostes	3.00@ 4.00
" Mermets, Brides	4.00@ 6.00
" La France, Albany	4.00@ 6.00
" Bennetts, Woottons	4.00@ 6.00
" Bon Silenes	1.50@ 3.00
Carnations, long	1.50@ 2.00
Carnations, short	.75@ 1.00
Smilax	15.00@18.00
Callas	12.50@18.00
Chrysanthemums	1.50@ 3.00
Adiantums	1.00@ 1.25

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.
Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.
☞ Wholesale Catalogue on application

Edward C. Horan,
WHOLESALE FLORIST.
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

THOS. YOUNG, Jr.
WHOLESALE FLORIST
20 West 24th Street, NEW YORK.
LILY OF THE VALLEY, and the Choicest ROSES for the fall and winter season.

W. F. SHERIDAN,
Wholesale and Commission Dealer in
CUT FLOWERS,
No. 32 W. 30TH ST., NEW YORK.
Orders to be shipped will receive prompt attention.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

JOHN YOUNG,
WHOLESALE FLORIST
53 WEST 30TH STREET,
NEW YORK.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

TRY **DREER'S**
GARDEN SEEDS
Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia

Apple Geranium Seeds
Per 1,000 Seeds, $2.50; per 10,000 Seeds, $20.
Of this popular plant we have gathered a large quantity of seed, and are prepared to supply the trade as long as stock lasts. Send in orders early to
BROTHERS' INDUSTRIAL GARDENS,
Mobile, Alabama.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

The Vick Failure.

Walter S. Hubbell, on behalf of P. M. French, receiver of James Vick, seedsman, made an application to Judge Davy this morning for permission to sell and rent certain portions of the property. The application reads in substance as follows:

"Your petitioner shows that the assets which have come into his hands as such receiver consist largely of seeds, bulbs, growing plants and property of a perishable nature. That your petitioner, under an order heretofore made in this action, has since his appointment as receiver been filling orders received by mail where such orders were accompanied by the necessary funds to pay for; that a large amount of the property now in your petitioner's hands consisting of property upon which much time and money must be expended, not only to preserve the same, but to cultivate and propagate the same for market in the spring. That your petitioner's pay roll amounts to about $500 per week.

"That in your petitioner's judgment it is not for the best interest of the creditors or the stockholders of the defendant for your petitioner to continue the business of said corporation during the winter. That either or all, or practically all, of the said assets, excepting the real estate, must necessarily be sold at once, or your petitioner must continue said business during the winter, for the reason that a large amount of the property consists of growing plants, etc., which must be put into hot houses, taken care of during the winter and used for propagating plants in the spring, the same being of no value for any other purpose. That the expense of running the hot-houses on the property of the said defendant during the winter is large, and your petitioner does not feel justified in incurring the expense, or even in asking authority from the court of incurring the expense of so doing. That there was due upon the first mortgage upon the real estate the sum of $875 on the 14th day of September last, said mortgage being held by the Mutual Life Insurance Company, of New York. That an annuity of $2,000 a year to the widow of James Vick, deceased, is secured upon a second lien upon real estate, and there are taxes due the city of Rochester upon said real estate. That in case your petitioner can lease said real estate, or a part of it, your petitioner thinks he can sell to any person leasing the same quite an amount of said personal property, and that the rental of the said real estate will pay the interest on said $35,000 mortgage and the said taxes or a portion thereof until spring and that by so leasing all or a part of said real estate your petitioner can realize a considerable sum from a sale of personal property which would otherwise be wasted, but that in order to do so your petitioner will be obliged to apply the amount received from the rental of the real estate for said time upon said incumbrances, or some of them.

"And your petitioner further shows, as he is informed and verily believes, that the value of seeds is largely a matter of personal confidence in the integrity and skill of the seller. That for this reason the purchaser will not buy unless the person from whom he buys is a well-known dealer, and also unless such dealer can certify as to the quality of the seeds sold, so that in the hands of your petitioner said seeds are of much less value than they would be in the hands of those who grew the same, or had personal knowledge in regard to the same.

"Your petitioner further shows that whatever is done in regard to the leasing of any portion of said real estate or of the personal property above referred to which is perishable, or which cannot be sold until next spring, must be done quickly, for the reason that when a heavy frost comes it will be too late for a purchaser to save a portion of said property, and for this reason a short notice of the sale of the personal property should be directed by the court to be given."

Judge Davy was in some doubt as to the advisability of leasing any of the property. He thought immediate measures should be taken to dispose of it an once. He reserved his decision until to morrow morning.—*Rochester (N. Y.) Post-Express, October 12.*

PORTER M. FRENCH, receiver of Jas. Vick, seedsman, advertises to sell most of the personal property of that corporation, including lists of names, stocks of seeds and bulbs and Vick's Magazine, etc. October 27.

W. H. SMITH, seedsman at Philadelphia, has sold out to Mr. B. C. Halfield, of Lancaster, Pa., who will continue at the same place, 1018 Market street.

MR. W. ATLEE BURPEE is having such serious trouble with his eyes that his physicians say he must have absolute quiet for a while.

W. B. HAYT, representing the Cleveland Seed Co., sailed from New York on the 28th for a three month's trip in Europe.

WARM October weather in Germany is likely to make shipments of lily of the valley later than usual this year.

THE Emerson Seed Co., of Omaha, Nebraska, are reported to have sold out their retail business.

The Cyclamen.

This old favorite florist's flower has not received as much attention of late years as some of its more fortunate brethren, such as carnations, chrysanthemums, etc., but we do not despair of seeing it taken in hand by some "specialist" and its good qualities developed. Perhaps it will be said that such would have occurred ere now had the plant given promise of reasonable success. To such we would say that we consider the following characteristics worthy of further improvement, viz: Distinctness of form of flower, variety of color varying from the purest white to the deepest tinge of crimson, easiness of culture and time of flowering, viz; From end of September till May. It also makes a good window plant, not being too large, and in such a situation with ordinary attention will continue in flower as stated above. We have had most success with seed sown in October, which by about the turn of the year will need "pricking out" into boxes of nice light soil. We prefer boxes here, although in England the favorite way of the large growers is to put from four to six round the edge of a 4-inch pot and get them up pretty near the glass. By March the little plants will have from three to five leaves; they must then be given more room, always using nice light open soil that will not "solid." They must be kept shaded from the sun in spring and summer, but when housed for the winter they will stand all the sunshine they can get if they are placed on a cool "bottom," although the flowers will last longer when moderately shaded. Occasional watering with weak manure water during the flowering period will help them provided they have not too much pot room, when it will have a tendency to cause too much leaf growth. I.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies Etc., Etc. For prices examine Wholesale Catalogue.

Address with business card

136 & 138 West 24th Street,

STATION E. NEW YORK.

Mention American Florist.

JAPANESE PLANTS

Trees, Shrubs, Bulbs, Seeds, Etc.

SEND IN YOUR ORDERS NOW, for

Lilium Auratum, Rubrum, Longiflorum, Etc.

Cycas Revoluta at greatly reduced prices.

Camellias in all colors, MAGNOLIAS, TREE PAEONIES, MAPLES, Etc.

Give us a trial, we can supply you with all Plants and Seeds, and can pack safely to any part of the world. F. GONZALEZ & CO.,

303 to 312 Wayne St. & Crescent Ave.,

SAN FRANCISCO, CAL.

C. C. ABEL & CO., New York, Agents for

C. G. VAN TUBERGEN, Jr., Florist and Seedsman, Haarlem, Holland.

V. LEMOINE & SON, Florists, New Varieties of Plants a Specialty, Nancy, France.

FRANCIS REBUFA, Roman Hyacinths and other Bulbs, Oullioules, France.

ERNST RIEMSCHNEIDER, Lily of the Valley a Specialty, Hamburg, Germany.

PIERRE SEBIRE & SONS, Nurserymen and Florists, Ussy, France.

G. BENARD, Rose and Nursery stock, Orleans, France.

Catalogues free on application, when received for distribution. All orders for these houses should be addressed to C. C. ABEL & CO.,

15 to 25 WHITEHALL ST., P. O. Box 920 NEW YORK.

C. PLATZ & SON,

Wholesale Seed Growers,

Merchants and Exporters,

ESTABLISHED 1756.

Furnishers to His Majesty The Emperor of Germany and King of Prussia,

ERFURT, GERMANY,

offer their very large stock of every kind of flower and vegetable seeds in finest condition, at lowest rates: Trade seed lists will be issued at the end of November and may be had free on application.

YOU CAN'T AFFORD TO DO WITHOUT THE SNOWFLAKE DAISY

DON'T depend on us for the cut flowers every flower we can cut is sold now, and as many more if we could get them; there is and will be a pressing demand for this inimitable flower; a few hundred pot plants still on hand, 3-inch, $5 00; 2-inch, $3 00 per 100 5 000 clean, thrifty plants in flats coming into bud and blooming, $2 50 per 100; $20.00 per 1000, (no more plants) 1000 Bouvardia Davidsoni, 200 Mrs. Cleveland, (crimson), 200 Multiflora Pinks, $2 00 per 100. Variegated Vincas, field grown 5 to 10 vines, 4 feet, $5 00 per 100; 3 to 5 vines $4 00 per 100. Eulalia Zebrina and Japonica, fine stock, first size $10 00; 2d size $8 00 per 100. Chrysanthemums, finest vars., 4-inch, $4 50, 6-inch, $2, 7-inch, $3, 8-inch $5 per doz.; also Cut Blooms at 40-50c per 100, all colors. A few thousand 2d c ass mixed Freesia bulbs, 25c per 100; $2 per 1000 Early flowering Moonvines, 2-in. $3.00 per 100 No risk; satisfaction guaranteed or money refunded.

J. C. GIBSON, WOODBURY, N. J.

AUCTION SALES
OF
Plants and Bulbs
BY
Messrs. Wm. Elliott & Sons,
COME OFF EVERY
Tuesday AND Friday,
AS USUAL, AT THEIR SALESROOMS,
54 & 56 Dey St., NEW YORK,
AT 11 O'CLOCK.
Catalogues mailed to applicants.
WM. ELLIOTT, Auctioneer,
54 & 56 Dey Street, NEW YORK.

GLADIOLUS BULBS.
Over 100 named varieties and many fine seedlings all mixed together. The quality of this collection has not been lowered by having the best sold under name or color. Several new named sorts have been added this year, and thousands of the least desirable have been destroyed.
FIRST SIZE, $10.00 per 1000
SECOND SIZE, 7.50 "
M. CRAWFORD, Cuyahoga Falls, O.

J. A. De Veer,
154 East 34th St., NEW YORK,
Importer and Dealer in
Bulbs, Seeds, Plants
AND FLORISTS' SUPPLIES.
CATALOGUE FREE TO APPLICANTS.

The Cultivation of Mushrooms.
The following standard works will be sent post free on receipt of price:
MUSHROOM CULTURE Robinson. $.50
MUSHROOMS—How to Grow Them. Falconer. 1.35
MUSHROOMS FOR THE MILLION, 16 pages. Free.
JOHN GARDINER & CO.,
Seed and Bulb Growers, Importers and Dealers,
Philadelphia, Pa., U. S. A.

CHINESE NARCISSUS, per 100 $7.50.
BOUQUET GREEN, fresh, 25 lb. sack, $2.25; 100 lbs. $5.75; 300 lbs. $16.50.
LILY OF VALLEY, November 10.
L. AURATUM, Imported, November 1.
J. W. ELDERING,
78 BARCLAY STREET, NEW YORK.

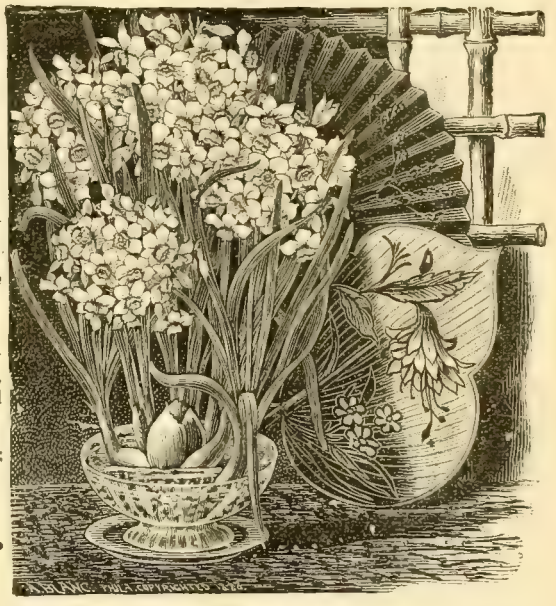
KAE SHEAN CO.,
Growers of CHINESE SACRED LILY,
HONG KONG.
Goods can be obtained at the following houses:
John L. Childs.....Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R. Pierson.....Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN. CONN.

THE CHINESE SACRED LILY.
"The Joss Flower" or
"Flower of the Gods"
—OF THE CHINESE.—
This is the best selling Bulb for the Retail Florist that there is.

We are in receipt of a large importation, direct from China, which has reached us in splendid condition.

PRICE, $9.00 PER 100; 200 FOR $15.00; $75 00 PER 1000.
Retail for 20 cents each.



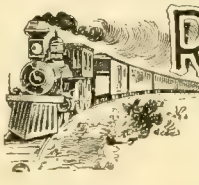
F. R. Pierson Co.
TARRYTOWN-ON-HUDSON, N. Y.

OVER A MILLION BULBS.
DUTCH HYACINTHS, TULIPS, NARCISSUS, CROCUS, ETC. now in stock.
THE BEST ARE THE CHEAPEST.
A good bulb requires no more space, heat or care than a poor one; our aim is to merit your confidence and trade by supplying only the best. **TRY US.**

	Per 100	Per 1000
MIXED HYACINTHS, Single or Double, equal quantities Red, White and Blue.....	$ 2.50	$22.50
MIXED TULIPS, First-class, Single or Double.....	1.00	7.50
" " Superfine, Single or Double.....	1.25	10.00
" " Best NAMED SORTS, Single or Double. **Solid colors, special for Florists' use**.....	2.00	17.50
MIXED CROCUS, all colors.....	.25	2.00
FREESIA REFRACTA ALBA (own growth).....	1.00	7.50

25 Bulbs at 100 price; 250 Bulbs at 1000 price. For terms of Credit, etc., see our Bulb List, free to all.
FINEST BERLIN LILY OF THE VALLEY PIPS, ready in November, $10 per 100. Write for Special estimates on your wants. ☞ **OUR FACILITIES ARE UNEXCELLED.**

Z. De FOREST ELY & CO.,
Wholesale Importers of Bulbs, **1301 & 1303 Market St., PHILADELPHIA, PA.**



READY · THIS · WEEK
CHINESE NARCISSUS.
BOUQUET GREEN.
AZALEAS.
L. AURATUM.
ALL FLORIST STOCK IN SEASON



J. C. VAUGHAN CHICAGO

CHRISTMAS ROSES.
THE LARGE WHITE FLOWERING VARIETY.
Orders are now booked for fall delivery. Having the largest home-grown stock in the world, and in splendid condition, I can do them well. Last year the large size produced over seventy flowers. For several years they have given the greatest satisfaction to my customers.

Extra size.....	$24.00	per hundred;	$216.00	per thousand.
1st size.....	16.00	"	135.00	"
2nd size.....	14.00	"	115.00	"
3rd size.....	10.00	"	72.00	"
4th size.....	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000).	2.50	"	23.00	"

Unknown correspondents are requested to add cash or good European references with the orders Orders can be executed at once. Special prices for bulbs and plants on application.

HERMAN BUDDENBORG, BULB GROWER,
Hillegom, = = Holland.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.

BULBS.
Send for Price List.
WISCONSIN FLOWER EXCHANGE,
93 Mason Street, Milwaukee, Wis.

An Historic Plant.

Cattleya labiata vera has after a lengthy period again been rediscovered. Brought to this country in 1818, nearly all of the original plants came from the importation of 1818.

It has often been remarked that this was the first cattleya that ever came to Europe, but Messrs. Loddiges, of Hackney, England, had already introduced Cattleya Loddigesii, known in those days as Epidendrum Loddigesii. It certainly is a grand orchid, and takes first rank among this most beautiful family.

They show a wide variation, and pure white forms are among the new importations, and four and sometimes five blossoms appear on a spike. The original plants have in every respect given the true characteristic of this plant, i. e., that it is very robust and a free bloomer, and the main point is that its flowers appear during October and November, a season when cattleya blooms are somewhat rare and always in demand.

How many plants of this autumn flowering cattleya there were when it first made its appearance we are not told, but one found its way into Mr. Cattley's collection at Barrett, England and bloomed there, and the flowers were afterward sent to the great Lindley, and the genus from that time was named in his (Cattley's) honor.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

CYCAS REVOLUTA STEMS



by weight, roots and fronds cut off. For these we book orders at EXTRA FAVORABLE RATES up to

NOVEMBER 20TH,

in small or large quantity.

THE TRUE LONG-LEAVED VARIETY,

in sizes from 3—4 inch to 4—6 feet. We imported past season over 30,0 o lbs., and can refer to some of the best known firms in the U. S. as to satisfactory results.

Remember a Cycas is a safe investment.

ALSO ORDERS TAKEN FOR

RHAPIS FLABELLIFORMIS.

Can send you all safely by freight. Full information as to prices, time of delivery, freight rates, etc given on application. SEND FOR CATALOGUE.

Send orders to

H. H. BERGER & CO.
SAN FRANCISCO, CAL.

Mention American Florist.

ORCHIDS.

THE FINEST STOCK IN THE WORLD.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

CATTLEYA PERCIVALIANA.

A fine consignment of this beautiful winter-blooming Cattleya just to hand. Plants have arrived in excellent condition. Also an immense stock of well established Orchids at very low prices. Write for price list.

FREDERICK MAU,
P. O. Box 372 SOUTH ORANGE, N. J.

100 FOR $25.00.

Orchids.

BRACKENRIDGE & CO.,

Established 1864. **Govanstown, Md.**

Mention American Florist.

CYCAS * REVOLUTA.

NATURAL FRONDS DYED

most deceivingly similar to the fresh cut ones. We carry in stock in five sizes:

A.	17—20	inches,	at	25	cents	Each.
B.	21—24	"	"	35	"	"
C.	25—28	"	"	45	"	"
D.	29—33	"	"	50	"	"
E.	34—38	"	"	60	"	"

They will keep unchanged for months if stored dry, and will supplant fresh ones when these can not be had. We call your special attention to these and to our

NEW FUNERAL BOWS

of satin and imitation satin finish, with gold and silver inscriptions in English and German, edged at the ends with gold and silver fringe. Prices range at 25, 35, 50, 60, 75, 90 cents and $1.00 each, according to finish.

For other Florists' Requisites, see our Wholesale Catalogue.

AUGUST RÖLKER & SONS, NEW YORK,

136 and 138 West 24th Street, near 6th Ave.; or Station E.

DRACAENA TERMINALIS,

very fine, 4 and 5-inch pots.

LATANIA BORBONICA,

and many other varieties, in 4, 5 and 6-inch pots.

Prices given on application.

GEO. W. MILLER, 1748 N. Halsted St., **Chicago.**

Mention American Florist.

PALMS AND FERNS

Well grown Specimen Plants, fit for immediate use.

		Each.
KENTIA,	3 to 3½ ft. high, 6-inch pots, 7 to 8 leaves	$2.50
do	2 to 2½ ft. high, 5-inch pots, 5 to 6 leaves	1.50
do	1½ to 2 ft. high, 4-inch pots, 3 to 4 leaves	1.00
COCOS WED.	2 to 2½ ft. high, 6 to 8 leaves	2.00
LATANIA BOR.	2½ feet high, 6 to 8 leaves	1.00
PANDANUS VEITCHII,	2 to 2½ ft. 6-in. pots	2.00

FERNS—Well grown plants in 3 in. pots, for fern dishes, etc., in following varieties:

Pteris Hastata, Sieboldi, Cretica and Alba Lineata, Davallia Stricta and Fijiensis, Lastrea Leptophyllum, Polypodium, Blechnum and Polystichum, assorted, at $10.00 per 100.

E. W. WEIMAR, Mt. Vernon, N. Y.

Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2.00 to $10.00 each. Cycas revoluta, 50c to $1.00 and $15.00 each. Cycas leaves 25c. to 50c. each.

DRACAENA INDIVISA VEITCHII,

DRACO and AUSTRALIS, 2¼-inch pots, $4.00 per 100; 3-inch pots strong, 15 to 18 inches $8.00; 4-in. pots, strong, $12.50. For other varieties of Dracaenas and Palms etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

Fresh Palm Seeds.

We have just received from New South Wales, a large consignment of the following Palm Seeds; they are in splendid condition, and some are already germinated. Orders will be filled in strict rotation until stock is exhausted:

	Per 100
ARECA BAUERI	$ 1.50
KENTIA BELMOREANA	2.25
KENTIA CANTERBURIANA	5.50
KENTIA FORSTERIANA	2.25
KENTIA MOOREI (very rare)	6.00
PTYCHOSPERMA ALEXANDRÆ	1.00
SEAFORTHIA ELEGANS	1.00

We have also a large consignment from Central America, the West Indies, and Keys of South Florida.

	Per 100
ACROCOMIA HAVANENSIS	$ 6.00
CARYOTA URENS	.75
COCOS ALPHONSII	1.75
LATANIA BORBONICA	per lb. 50c.
LIVISTONA ALTISSIMA	2.00
OREODOXA REGIA	.25
PANDANUS UTILIS	1.00
THRINAX ARGENTEA	.30
THRINAX PARVIFLORA	.25
SABAL PALMETTO	.25

The above prices include packing and postage, seeds ordered by the 1000, to be sent by express, will be subject to 15% discount.

Terms, cash with order.

THE AMERICAN EXOTIC NURSERIES,
R. D. HOYT, Manager,
SEVEN OAKS, FLORIDA.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

NOV. 6TH. **NOV. 6TH.**

1,000 PLANTS

In magnificent order and condition of the True and Historical

CATTLEYA LABIATA AUTUMNALIS VERA

Rediscovered by

F. SANDER, ST. ALBANS,

GUARANTEED THE OLD LABIATA OF LINDLEY.

The Queen of Cattleyas. A valuable and most useful Orchid for the florist. Blooms in October and November on **4, 5 and 6 FLOWERED SPIKES.**
PLENTY of WHITE are among them.

Form and Coloring Superb, embracing White, Rose Purple, Red, Maroon, Crimson and Yellow.

500 PLANTS OF THE ELEPHANT MOTH DENDROBE

In Grand Condition.

Dendrobium phalænopsis var. Schroderianum,

THE KING OF DENDROBES.

Only seven plants in cultivation. Very easy to grow. Unlike any Dendrobium phalænopsis variety. Flower spikes 2 feet long, ranging from white to rose purple; it is even finer for cutting purposes than O. Alexandræ, and even surpasses that grand orchid for brilliancy of color.

The above will be offered at AUCTION by

R. B. YOUNG & CO.,

205 Greenwich Street, NEW YORK,

FRIDAY, NOVEMBER 6TH, NEXT.

Visitors to the Madison Square Show should not fail to attend this most important sale. Plants on exhibition day before sale. Catalogues had on application.

The One Judge Plan.

Now that the exhibition season is at hand I wish to repeat the advice I offered last season to managers of exhibitions to select one competent man to act as judge instead of three or more, as is usually done. Among many notices in favor of this method I remember the flollowing: Mr. Foster at the meeting of delegates of florists' clubs at Toronto said: "In Toronto they have adopted the system of one judge and although at first I objected to it vehemently I now approve of it. It is in my opinion *the* system." "E." writing from Toronto in the FLORIST for October 15 says: "The Gardener's and Florist's Club have adopted the one judge system for their coming chrysanthemum show. There was no difficulty about that: the trouble seems to be to get the one judge who will be suitable." The secretary of a society in this state (Pa.) where I judged the display of plants and flowers, says in a letter to me: "We adopted the one judge plan several years ago and find it far superior to the three or more plan."

If one judge cannot do the work in the time allotted get two, not to work together, but let each take a class and award the prizes in it and then go to another, each man being responsible for his own work.

I wish also to again urge the managers of flower shows to set chrysanthemums and all tall plants on the floor. By doing so you not only make it possible for judges and visitors to see the flowers on them, but save the cost of benches and the time required to erect them. W. T. BELL.

Franklin, Pa.

Choice Plants Cheap

JOHN H. LEY,

ANACOSTIA, WASHINGTON, D. C.,

Will be pleased to receive orders for the following plants, (in excellent condition; low price for cash):

	Per Doz.
Dracæna fragrans, 5-in. fit for 7-in. pots	$10 00
" terminalis, 4-in. fit for 5 in. pots	3.00
Areca lutescens, 6-in. fit for 7-in. pots	15.00
Cocos Weddeliana, 5-in.	5 00
" " 4-in., extra strong	4 00
Gardenia florida major, large, full, open ground	4 00
" Fortunei, enormous flowers, " "	6.00
Grevillea robusta, 1 ft., 4-inch pots	2.00
" " 2-inch pots	1.00
Padanus utilis, 2 inch pots	2.00

PALMS IN STORE BOXES.

Areca lutescens	$8.00 per 100
Latania borbonica	5.00 "
Cocos Weddeliana	8.00 "
" plumosa	10.00 "

Platycodon grandiflorum, white and blue; Seed just gathered. Pkt. 50 cts.

F. O. B. on Rail, and extra plants to pay express.

10,000 VIOLETS, MARIE LOUISE, splendid field-grown clumps, $4.00 per 100.

3,000 ROSE CATHERINE MERMET, nice, 3-inch, $4.00 per 100.

10,000 SMILAX, 2½-inch pots, ready for planting, or for 4-inch pots, cut back several times, $2 per 100; $18 per 1000.

4,000 BEGONIAS. Alba picta, Lobata var., Metallica, Miniatii, Sandersonii, Compta, Rubra alba, 2½-inch, $3 per 100; nice, 3-inch, $5 per 100.

Chrysanthemums, Primula Obconica, Hydrangeas, Etc., in quantity.

Address **N. S GRIFFITH,**
INDEPENDENCE, MO.

ENGLISH IVIES.

Fine, strong plants, 2 to 6 feet long, from 4-in. pots, 20 cents each.

DAVID CLIFFE, Germantown, Philadelphia, Pa.

ROOTED CUTTINGS.

CARNATIONS AND OTHER STOCK.

I will devote some 30,000 feet of glass to Carnations this season, and will give my whole time and attention to the getting out of strictly first-class cuttings.

Of the three best Novelties of last season (**GOLDEN GATE, HECTOR** and **LIZZIE McGOWAN**) I have a extra large stock, and in the best of condition.

My Miscellaneous Stock will occupy some 7,000 feet of glass and consist of **GERANIUMS, FUCHSIAS, COLEUS, ETC.** It will be grown for me by Mr. D. K. Herr, and gotten up in better shape than if I were to grow both these and Carnations myself.

Give me a chance to figure on your orders. List on application. Satisfaction assured.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

PALMS and DECORATIVE PLANTS

ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

PANSIES OF THE BEST STRAINS.

$5 per 1000 by Express; 75 cts. per 100 by Mail. CASH WITH ORDER.

NOTE.—That my Specialties for the coming season are best varieties of

CARNATIONS, COLEUS, GERANIUMS. **FIRST-CLASS ROOTED CUTTINGS.**

Descriptive Trade List ready in November. Send for it.

ALEX. McBRIDE, Alplaus, N. Y.

OUR TRADE CATALOGUE
— OF —

Rare Florida Flowers
AND FRUITS

Has been mailed to every name in the Directory of Florists. If you have not received one, send us a postal card AT ONCE. We are offering AT BED ROCK PRICES a choice variety of Seeds, Plants and Bulbs most desirable for catalogue trade and for cut flower growers and decorators. Seeds and plants of rare **WATER LILIES** and other choice aquatics.

Ferns, Zamia integrifolia, Amaryllis, Crinums, Hymenocallis (Spider Lily), **Orchids and Air-Plants, Hardy Orange, Canna flaccida, New Hardy Tuberous-rooted Ipomæa, Tropical and Semi-Tropical Fruits,**
ETC., ETC.

We are offering **SPANISH DAGGER** (Yucca aloifolia) canes which soon make grand decorative specimens, such as it would require years to grow from small plants. They make fine companions for Palms, Tree Ferns, etc.

PIKE & ELLSWORTH,
PASCO CO., JESSAMINE, FLA.

Mention American Florist.

PANSIES. PANSIES.

200,000 plants of the Jennings strain now ready, 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies A No. 1 in every respect. Large flowering, fine colors and fine stocky plants. Seed 50 cts. and $1.00 per packet.

All sizes in Pansies, flowering plants same price, but must be sent by express. Yellow can be had separate from mixed.

ADDRESS **E. B. JENNINGS, Pansy Grower,**
Box 76. **SOUTHPORT, CONN.**

Mention American Florist.

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
PANSIES	$1.00	$ 5 00
SMILAX, 2½ inch pots	1.50	12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CARNATIONS, field-grown	6.00	

Address **J. G. Burrow,**
FISHKILL, N. Y.

PANSIES ONLY.

The Greatest Collection ever offered, including all the Latest Novelties. Our Seed is Warranted to be Fresh, Pure and Strictly First-class. Send for new circular and price list to the trade.

ALBERT BENZ, Douglaston, N. Y.

Special Offer.

CLEMATIS.

	Per 100
JACKMANNI, 2 years, dormant,	$25.00
HENRYII, " "	25.00
FLAMULA, " "	5.00
VITICELLA, " "	5.00
VITALBA, " "	5.00

AMPELOPSIS.

VEITCHII, from 4-inch pots,	8.00
" 2 years, field-grown,	8.00

A large assortment of H. P. ROSES, 2 years, ON OWN ROOTS, grown in open grown, $10 00 per 100.

PHOENIX NURSERY COMPANY,

Established 1852. **BLOOMINGTON, ILL.**

Mention American Florist.

GOOD ASSORTMENT OF

PALMS,

from 2 to 8-inch pots, at reasonable figures, for sale.

Also will **EXCHANGE** for 1000 small Geraniums, and Flowering and Rex Begonias, in A No. 1 assortment.

A. C. OELSCHIG,
Savannah, Ga.

VIOLETS AND CARNATIONS.

VIOLETS M. LOUISE AND SWANLEY WHITE, fine field grown stock, $5.00 per 100.

CARNATIONS, Grace Wilder, $8.00 per 100
" DeGraw & Hinze's White, 5.00 "

Hinze's White rather small, other varieties good medium stock, all healthy.

Primula Chinensis, $4 per 100; P. Obconica, $3 per 100; P. Floribunda, $4 per 100. Send for trade list.

I. N. KRAMER & SON, MARION, IOWA.

2,500 DOLLARS OFFERED IN PREMIUMS

AT THE

Eighth Annual Chrysanthemum Show

OF THE

PENNA. HORTICULTURAL SOCIETY,

To be Held at

Horticultural Hall, Philadelphia, November 9, 10, 11, 12, 13, 1891.

IN ADDITION TO THE ABOVE PRIZES SPECIAL PREMIUMS ARE OFFERED BY

A. Blanc, T. H. Spaulding, Whilldin Pottery Co., Hon. E. H. Fittler, Dr. E. H. Williams, Geo. W. Childs, Mrs. Chas. Wheeler, W. K. Harris, Wm. M. Singerly, Miss Mary Weightman, Mrs. A. J. Drexel, I. H. Clothier, Mrs. H. C. Hart, Chas. Dissel, C. W. Trotter, W. A. Burpee, Miss Elizabeth Shaffer, E. P. Wilbur and others.

For particulars apply to **D. D. L. FARSON, Sec'y, Horticultural Hall.**

COMPETITION OPEN TO ALL.

Exhibits of NOVELTIES and SEEDLINGS in Chrysanthemums, Carnations, etc., are solicited. Exhibitors who are unable to attend personally, may send their goods direct to Horticultural Hall, Broad Street, Philadelphia, in care of D. D. L. FARSON, Secretary, or JOHN WESTCOTT, Superintendent of Exhibits.

Hardy Perennials

A SPECIALTY.

GOOS & KOENEMANN,

Nieder-Wallup, Rheinger, Germany.

PRICE LIST ON APPLICATION.

WE OFFER:

	Per 100	Per 1000
Primula Sieboldi, only best vars., our selection, strong plants	$7.00	
Primula rosea grandiflora	6.25	
PAPAVER ORIENTALE, best vars., our selection, Salmon Queen, Semiplena, Blush Queen, Royal Scarlet, Brilliant, etc., **true**	10.00	$85.00
Anthericum liliastrum	6.00	
Delphinium nudicaule	6.25	
Spiræa aurnens, strong plants	6.00	45.00
Platycodon Mariesii (nanum) new, a first-class perennial for pot culture	12.00	
Montbretia Etoile de feu, new	7.50	
Lilium Candidum	2.50	

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E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

SMILAX—Last Call.

Only a few thousand left, from 2½-inch pots, equal to ordinary 3-inch, at $1.50 per 100; $12.00 per 1000.

F. A. BALLER, BLOOMINGTON, ILL.

Mention American Florist.

HYDRANGEA PANICULATA GRANDIFLORA

Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine	$5.00 per 100;	$40.00 per 1000	
TWO YEARS, 18x24 inches, fine	6.00	"	50.00 "
TWO YEARS, Extra selected, 2½x3 feet, strong	7.00	"	60.00 "
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00	"	70.00 "

Packed in best manner and delivered to Express or R. R. free of charge. Orders Solicited.

ADDRESS **THE DINGEE & CONARD CO.,**

West Grove, Pa.

HYDRANGEA PANICULATA GRANDIFLORA,



Japan Snowball.

We believe that our 1 and 2 year old plants are superior to those a year older offered by others.

	Per 10	Per 100	Per 1000
Hydrangea pan. grand. 1 year, 18 to 24 inches	$.75	$ 6 00	$50.00
" " " 1 year, 2 to 2½ feet	1.00	7 00	60 00
" " " 2 years, 3 feet, strong	1.25	10.00	75.00
" " " 2 years, 3 to 4 feet, bushy	2 50	18.00	

JAPAN SNOWBALL.—Viburnum plicatum.

We have the only large stock of this in the world. Illustrated circulars, with your name and address printed on them for distribution among your customers, furnished at a low price. Send for sample circular and prices of them.

	Per 10	Per 100
Japan Snowball, 12 to 18 inches	$ 2 00	$18 00
" " 2½ to 3 feet	2 50	25 00
" " 4 to 5 feet	3.00	30.00

☞ Wholesale Catalogue on application.

THOMAS MEEHAN & SONS, Germantown, Pa.

HYDRANGEA THOS. HOGG

Strong two year old Plants for Forcing,

$10.00 per 100.

SAMUEL C. MOON

MORRISVILLE, Bucks Co., PA.

Hydrangea ramulus coccinea, 1 year old, strong plants from open ground $25.00 per 100. **Hydrangea Otaksa and Thos. Hogg,** 2, 3 & 4 year old, very strong plants, from open ground, $25, $30 and $40 per 100, according to size. **Ampelopsis Veitchii,** 1 year old from open ground, $3 00 per 100. Orders from unknown parties must be accompanied by cash. **JOHN RECK, Bridgeport, Conn.**

200 Ficus Elastica, from 10 to 16 leaves.
200 Croton Interruptum, 3½-in. pots, good color.
200 Croton Aurea, fine, in 3½ and 4-in. pots.
200 Interruptum, in 2½ and 3-in. pots.
200 Croton Aurea, in 2-inch pots.
Ficus Nitida, all sizes. Also 12 fine specimen trees.
Begonia Rex in variety, cheap.
Begonia, blooming variety, Olbia, Gigantea rosea and many others.
Chrysanthemums in variety.
500 Smilax in 2½-inch pots, fine.
And all the leading plants. Write or send for prices.

LOUIS UNVERZAGT,

SPRINGFIELD, ILL.

Please mention American Florist.

Vaporizing Tobacco Juice.

I have read many articles in the FLORIST on the subject of vaporizing tobacco juice for killing green-fly. I have no doubt this can be successfully done by those using steam. I would like to know if any of the readers of the FLORIST who are using hot water have been able to vaporize tobacco successfully. For the last two years I have succeeded in keeping my houses free from green-fly by placing tobacco stems upon the hot water pipes, but this method requires large quantities of stems, which are sometimes difficult to get. I have no doubt many who like myself are using hot water, would be glad to know if tobacco water can be successfully vaporized without the aid of steam. J. H. ELLIS.

Exhibiting Chrysanthemum Flowers.

I think 100 or 200 blooms are too many to be called for in one class. It seems to me that the prizes offered are not commensurate with the great sacrifices needed on the part of the grower to get together such a large number of really first class flowers.

I also believe that each flower should be shown in a separate vase and that two large blooms should not be jammed together in one vase or cup as I have seen them at some shows. W. K.

WHEN GETTING up letter heads for your club or society do not fail to give the street address as well as the name of the secretary. We note that several clubs have failed to supply this convenience to correspondents on their letter heads. Be sure to supply this deficiency in the next lot you print and if you haven't time to write the address in on the present lot get a rubber stamp made and stamp it in. Make communication with your organization just as easy as possible.



If you wish to illustrate your Printing with Cuts, send 10 cents for my Catalogue of FLORAL ELECTROS 2,250 Engravings.

A. BLANC, PHILADELPHIA.

Catalogue of Cactus plants free.

WE CAN NOW SUPPLY

VOLUME 6

—OF THE—

AMERICAN FLORIST

Bound in Half Leather.

PRICE $3.00 POSTPAID, OR $2.50 BY EXPRESS NOT PREPAID.

AMERICAN FLORIST CO.

54 La Salle Street, CHICAGO.

TO MUM GROWERS.

Your attention is called to the

CHRYSANTHEMUM EXHIBITION

AT

BAY CITY, MICH., NOVEMBER 16 to 21.

We offer for best 100 blooms, 50 varieties, the following premiums:

FIRST	$150.00
SECOND	50.00
THIRD	25.00

Local growers excluded from competition.

Express Charges refunded on exhibits not awarded premiums.

TOTAL PRIZES $1000. SEE PRIZE LIST.

JOHN IRVINE, President. T. J. COOPER, Secretary.

HEADQUARTERS for CHRISTMAS TREES!



Wisconsin Blue Spruce.

The finest of all in form and color. Well furnished, selected trees, carefully packed in light, strong crates, containing 25, 50 and 100 Trees, delivered, **Freight Charges Paid** to any point within 300 miles of Chicago, at prices here quoted:

	25	50	100
4 to 6 feet	$ 3.50	$ 6.00	$10.00
6 to 8 feet	6.00	11.00	20.00
8 to 10 feet	10.00	16.00	30.00
10 to 12 feet	15.00	25.00	45.00
12 to 14 feet	20.00	35.00	60.00
14 to 16 feet	25.00	45.00	80.00

The two largest sizes are of Balsam Fir; fine selected specimens.

Special correspondence solicited on car lots.

As the Western Classification of roads now exact, by a recent ruling, **ACTUAL PREPAYMENT** of all freight charges on Christmas Trees, I am obliged to assume these charges, hence I am under the necessity of insisting on the following:

TERMS OF PAYMENT:—At least one-half cash with order; balance 30 days approved credit. All bills to be paid not later than January 1st, 1892. No attention will be paid to orders not complying with above terms. Orders should be in before Dec. 1st.

W. D. BOYNTON, Shiocton, Wis.

·····OUR·····

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✱ ENGRAVINGS

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Their work in this journal speaks for itself

Publishers AMERICAN FLORIST.

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please place your orders for

Wild Smilax, Pines and Palms,

for Decorations, early with

A. C. OELSCHIG,

SAVANNAH, GA.

FLORAL DESIGNS.

The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address (with $3.50 for the book)

J. HORACE McFARLAND,

Box 665, HARRISBURG, PA.

The Madison Square Garden Company

WILL HOLD A

GRAND CHRYSANTHEMUM AND FLOWER SHOW

Under the Auspices of the

NEW YORK FLORISTS' CLUB,

At Madison Square Garden, November 2 to 8 inclusive.

$6,500 IN PREMIUMS $6,500

And numerous SILVER CUPS are offered for competition to the Florists and Gardeners of America, and every indication points to the most successful and MAGNIFICENT show ever held.

In addition to chrysanthemums and other plants and flowers, there will be a comprehensive exhibit of Conservatories, Greenhouses, Boilers, complete Heating and Ventilating Apparatus, Rustic and Architectural Summer Houses, etc.

RECOGNITION WILL BE GIVEN TO PLANTS AND FLOWERS OF MERIT NOT ENUMERATED IN THIS SCHEDULE.

THE NEW YORK FLORISTS' CLUB in view of the above facts invites your active participation in this EXHIBITION AS A COMPETITOR.

IT IS REQUESTED THAT ALL ENTRIES BE MADE ON OR BEFORE OCTOBER 24.

Night Watchmen will take care of Exhibits. For further details apply to

J. W. MORRISSEY, SECRETARY. or to **WM. PLUMB,** MANAGER CHRYSANTHEMUM EXPOSITION, MADISON SQUARE GARDEN, N. Y. CITY.

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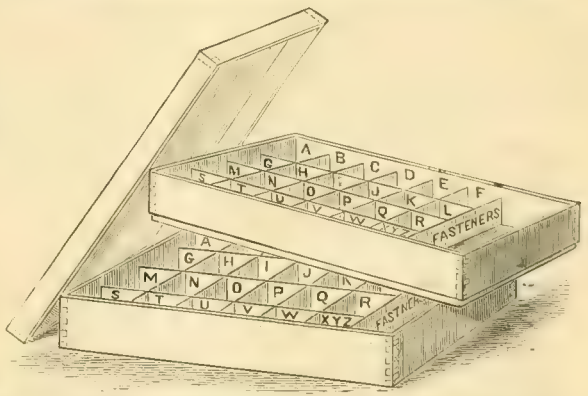
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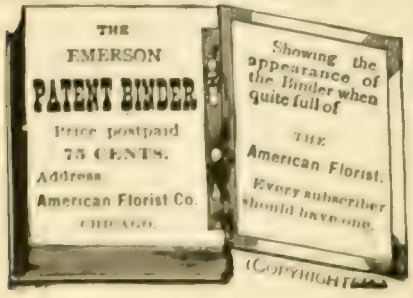
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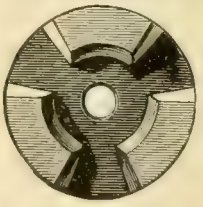


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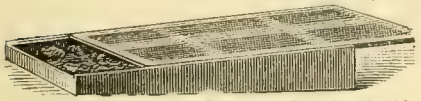
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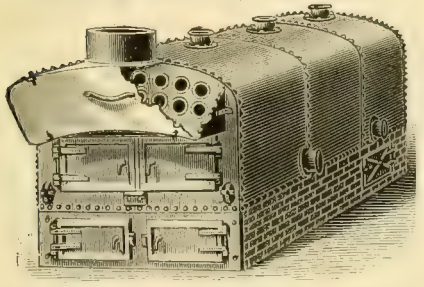
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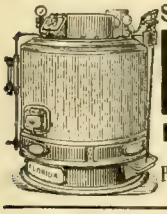
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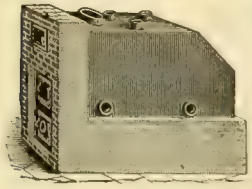
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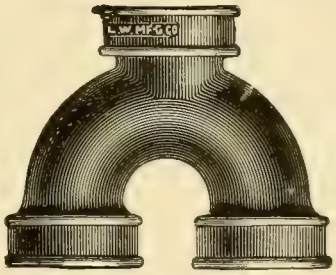


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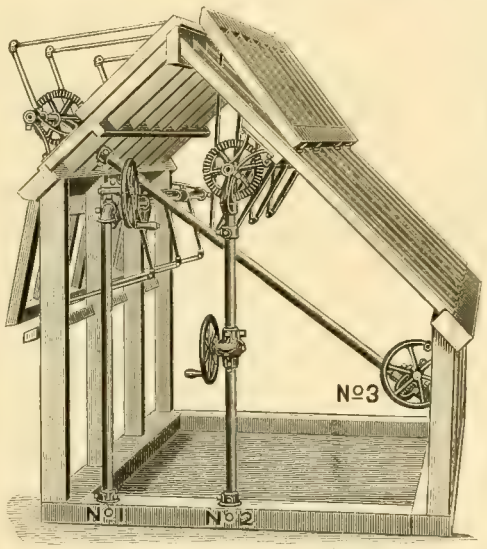
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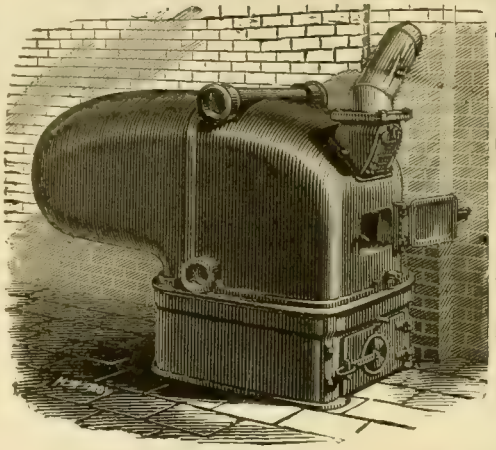
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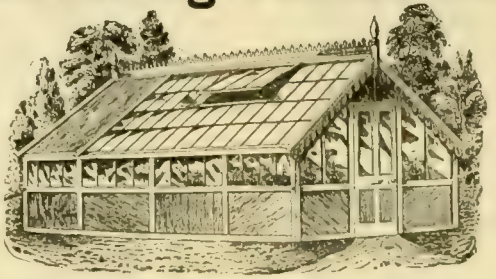
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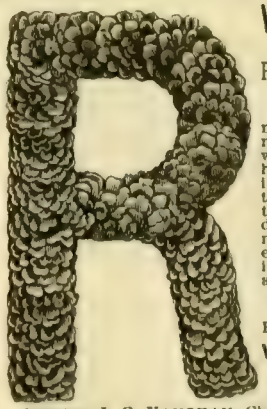
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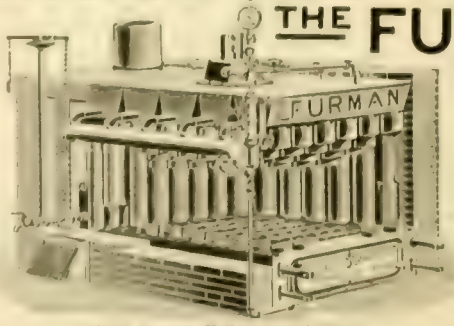
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Vol. VII. **CHICAGO AND NEW YORK, NOVEMBER 5, 1891.** **No. 179**

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American Carnation Society.

REPORT OF COMMITTEE.

It is a matter of regret that the committee appointed to pass judgment on the carnations exhibited at the inauguration of the American Carnation Society were not able to make a report at the first meeting, but we were overtaken by darkness. It was our judgment that all the carnations shown possessed some of the qualities which recommend them to the trade, namely: Color, form, stem, habit and fragrance.

Among the dark crimsons that were shown were the J. R. Freeman, Anna Webb and Pride of Kennett. In the same class we noted with pleasure two seedlings exhibited by Mr. McGowan under the numbers 122 and 125, both equally good as to shape and stiffness of stems, the former, however being the larger, and the latter possessing a richness of color seldom seen in carnations.

Among the yellows shown was a beautiful flower of Golden Gate, Louise Porsch much lighter than Golden Gate, shading very prettily to white on the edges and streaked with light crimson. If the stems were a little stronger it is our judgment that it would be a valuable addition.

We have never seen finer specimens of the carnation Dawn. These were exhibited by Mr. Chitty. This gentleman also exhibited fifteen other vases of carnation flowers.

A bunch of unusually fine Tidal Waves was shown. In this same class of color a new carnation named Thomas Cartledge and undoubtedly possessing merit was shown by Mr. Edward Swayne. Fine large specimens of William F. Dreer were exhibited.

Mr. Christian Eisele exhibited a sport of Century in pots. Its habit appears to be identical with its parent, it being very prolific, and looks as though it would prove a valuable commercial variety; color, dark crimson. The same gentleman showed some fine plants of Silver Spray.

Among the scarlets were Fred Dorner, which is unusually large. Good specimens of Portia and Constancy were shown.

Mrs. Fawcett, a salmon pink: The stems of this variety were particularly strong; likely to prove a valuable addition. Grace Wilder was shown in good condition.

Aurora, by Edward Swayne, shows merit; a trifle lighter than the Grace Wilder, a step we think in the right direction. Its fragrance was also pronounced and delightful. Anna Wiegand, also of the same type as Grace Wilder. Day Break, exhibited by Albert Herr, originated by W. P. Simmons & Co. These carnations we understood had been cut a number of days. The darkest colored ones were a beautiful shade of light pink.

Among the whites we noticed Lizzie McGowan and Lamborn, both of which were excellent specimens and were well grown. Mr. McGowan exhibited a carnation under the number 103 the same type as Dawn, a little more delicate in coloring, however. No. 108 was a scarlet showing great merit. No. 111 was a white of merit. Mr. McGowan exhibited several others, but unfortunately without any name or number whereby we could designate them. From this gentleman's exhibit we should say that he fully appreciates the value of good long stiff stems. J. G. Burrows also had a seedling carnation on exhibition. The American Flag, the sport from Portia, was also shown.

We did not give so much attention to the fragrance, as our time was so limited we found it impossible.

As the members of this committee are all retail florists and as our point of view is slightly different from that of the growers we deem it not out of place at this time to offer a few suggestions.

First, when the American Carnation Society shall adopt rules of judging carnations at exhibitions that one of these rules be that they shall be judged by day light. We would also strongly advise that a stenographer accompany the committee of awards to aid them in their report.

As one means of stimulating the interest in carnations we would advise that the growers when shipping flowers should frequently put tags with the names of the carnations written on. In this way the salesmen will become familiar with them. Having this knowledge a new interest will come and it will not be long before customers will call for carnations by name, as they now do for roses.

We would call your attention to the fact that more careful packing would be advisable; also, when practicable, to ship foliage with carnations. This we find is much appreciated. The day for selling flowers without their *own foliage* has gone by.

Our ideal carnation has the following qualities:

Form: Diameter as great as possible, petals as large as possible, not too double for two reasons; they are apt to burst the calyx and to our mind, when each petal is large and distinct, the flower is much handsomer and more graceful. The center petals should stand erect, thus avoiding a flatness sometimes seen.

Color: White, which is now called for more than any color, should be as pure

as possible. Pink, undoubtedly next in demand, should not be too dark. It is our judgment that a carnation lighter than a well grown Grace Wilder is much more desirable than one that is darker. A very delicate pink we find can be used or arranged with a greater number of contrasting colors than a dark pink. As an example, a dark crimson carnation with a very delicate or pale shade of pink is pleasing, while a dark crimson and a carnation several shades darker than Grace Wilder would generally offend people of refined taste. There is a slight difference of opinion as to the difference in value of dark crimson and scarlet, but we agree upon the following points: If a scarlet, let it be as pure and brilliant as possible, and if a crimson, it should have depth of color and if possible the velvety texture noted in No. 125 exhibited by Mr. McGowan. The Chester Pride is a valuable type, but we hope to see an improvement on this good variety. We would call your attention to the necessity of developing the yellow carnation. Flowers of this color possessing all of the good qualities would be of great value.

Stems: These should be *strong*, holding the flowers erect, and *long* enough to arrange a cluster of fifty or more gracefully in a vase.

Fragrance: A very important feature. Should never be forgotten as "the perfume from flowers and shrubs is as grateful to the one sense as their color and conformation are to the other."

Habit: Under this heading there are so many things to be considered that we are hardly in the position to give any suggestion to the grower, although we are confident that the time is not far distant when the American Carnation Society will endorse certain new varieties. This once done the retailer need have no doubts about the merits of that particular variety.

JOHN WESTCOTT, Ch'm.,
ROBERT KIFT,
H. H. BATTLES,
} Com.

Fuchsias.

Mr. W. F. Bassett asks on page 1012 (August 6 issue) how fuchsias may be kept over winter without special trouble.

If the wood of the plants is sufficiently ripened in the fall so that the leaves will drop off naturally he need have no trouble if the plants are kept comparatively dry at the root in a frost-proof cellar, and at a temperature below the growing point.

Mr. Bassett does not say what the plants are needed for. If for spring sales there is no real necessity for carrying stock over, only a sufficient quantity to produce the necessary number of green cuttings, as they make by far the better plants.

Beautiful, symmetrical plants can be raised from soft cuttings and had in bloom in a few months from the time the cuttings are rooted. Fuchsias, to do credit to the cultivator, must have care from the start.

Some 20 years ago, just for fun, I undertook to grow a few specimen fuchsias, and what was done more for pleasure than prospective gain, turned out to be quite profitable, for the plants which had received rational treatment sold the most readily and at much better prices.

The cuttings were taken from old plants that had been growing in a night temperature, more often 50° than higher, consequently they were sturdy and in good health. The cuttings were from 2 to 4 inches long. The time of year was the first week in January. A few of the lower leaves were trimmed off the cuttings. After this preparation they were inserted directly into small pots. The soil used was light, rich, and porous. They were placed in bottom heat, and kept shaded and sprinkled until they were nicely rooted. All that we had to do was to keep them from wilting.

As soon as the little plants were rooted they were moved to a more airy, cooler, and lighter situation. Here they remained until they were well established, —that is to say, nicely rooted. They were stocky plants by this time, and here is where the radical treatment is practiced which tends to develop the fuchsia in its natural graceful proportions.

The strongest plants and the most vigorous growers were repotted into 8-inch pots, and the weaker ones were transferred to 5-inch pots, the majority being put into 6's and 7's. The pots were well crocked and the soil used was good rich loam. The temperature maintained was from 50° to 55° at night, with plenty of air during the daytime. As the plants progressed one stake was placed to each one, and carefully tied thereto.

By this big-shift system the plant sprouted and developed uniformly all over—that is, according to the variety.

Some varieties are naturally of a pyramidal style of growth, while others are not so well disposed. Pinching or stopping the young growth is never resorted to in order to induce a dwarf or bushy habit. The ample space accorded through the large pot and the generous root room accomplished this much more effectively and naturally than any process of training could possibly do.

Flower buds made their appearance in due time on the leading shoot. These were carefully nipped off until they appeared on all the shoots of the plant. This allowed them all to have a fair show, and an elegant plant was the result.

The variety, as indicated before, has much to do with the shapely plant, and also its time of flowering. The sorts which I grew may not be in the trade today, or may be supplanted by better varieties.

A great favorite of mine at that time for early work was Arabella or Mrs. Marshall. It had a white tube and sepals and pink corolla. Bianca marginata was also one of the light colored kinds and early, its tube and sepals were white, the corolla delicate pink. The edge of each petal forming the corolla was of a much lighter shade, giving this sort a very unique appearance. Lustre was also good. It had a bright red corolla, approaching scarlet. Elm City was a great favorite in those days. The corolla was double, of a purple color, the sepals and tube were red. Prince Imperial, Maori Chief (catalogued by some as Modoc Chief), and Bernice all have single purple corollas; the plants were of the correct shape. Wave of Life had yellow foliage and single purple corolla. Avalanche (E. G. Henderson & Co.) also had yellow foliage, but it was a stronger grower than Wave of Life, and the purple corolla was double.

Personally I prefer the single fuchsia flowers to the double ones. A bachelor friend once cynically suggested the only reason for that could be because I was once single myself!

Avalanche (Smith). Both these came out the same year, if I am not mistaken, hence the identity of the name. The latter had a double white corolla streaked with red and pink. Old Rose of Castile was still grown at that time; the corolla was single and purple in color. The Lord Beaconsfield was out about that time or a little later. I remember exhibiting it at a local horticultural show as a new plant, but the committee on awards refused to recognize it as such, declaring it was nothing but old Speciosa! It certainly does resemble that old sort in color of the flower. It is single, corolla bright red, tube and sepals blush or delicate salmon pink. In the nomenclature of colors it is preferable to say salmon rather than shrimp pink. A shrimp has to be boiled before it approaches a pink in color, whereas a salmon is naturally pink; besides, the latter has always been used in describing that peculiar shade of pink in floriculture, and shrimp is a comparatively recent introduction, having been brought in with dress or ribbon goods.

A variety of fuchsia which has been largely grown in recent years for spring sales is one known as Black Prince, but how it came by that name is hard to understand, for there is nothing suggestive of darkness either in foliage or flowers. It is a profuse and early bloomer, and I have reasons to believe it is a good grower. It ought to make a beautiful specimen under the course of culture laid down.

In conclusion, fuchsias make an excellent display at a spring flower show. If cuttings were started now, and brought along slowly, what magnificent plants they would make by next April, large enough for a 12-inch pot. The early varieties would, of course, have to be selected for that purpose. EDWIN LONSDALE.

P. S.—If Mr. Bassett wants smaller plants, say for market or home spring sales, it is not necessary to put cuttings in before February or March. For the mailing trade of catalogue men the ripened and rested plants would be, perhaps, the most suitable. I have not seen a well-grown fuchsia for a number of years. It is about time they were taken in hand again and pressed nearer to the front. A finely-grown fuchsia would made an excellent subject for an illustration for catalogues. E. L.

Wedding Decoration.

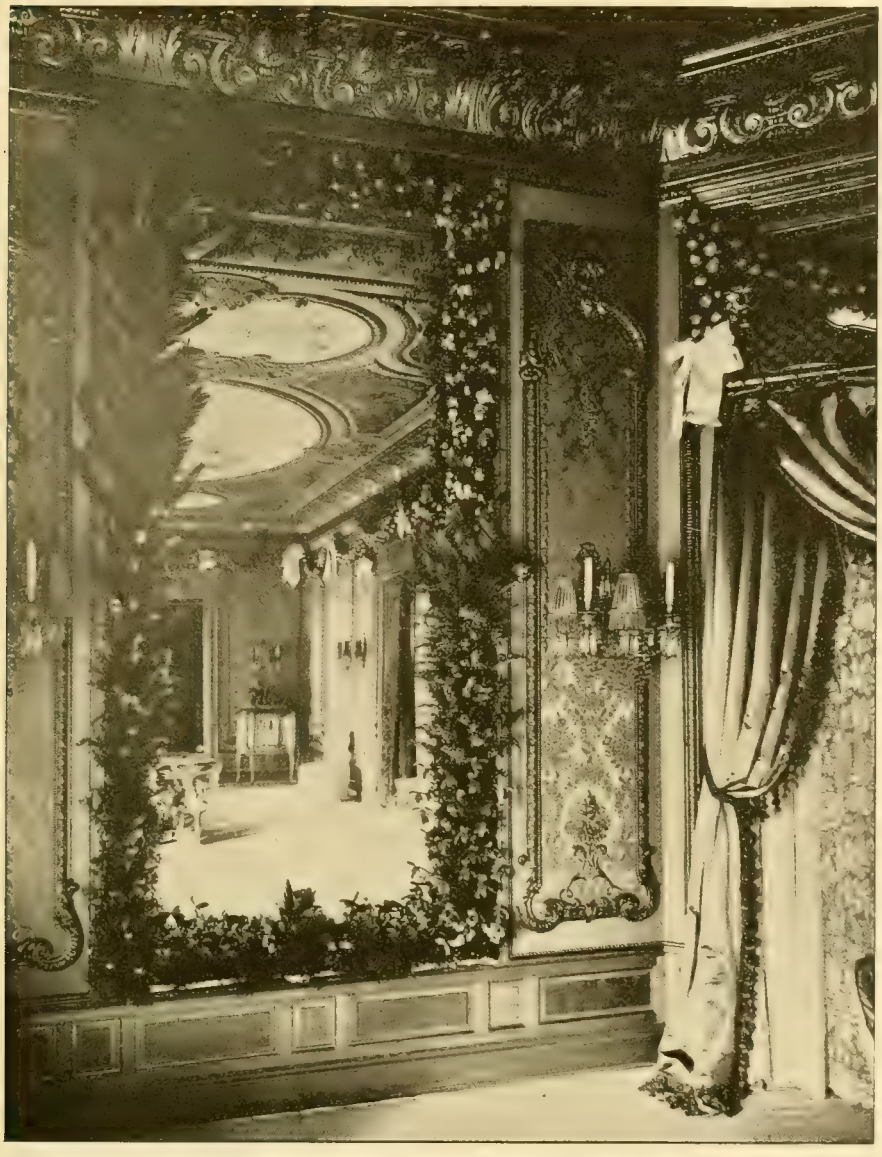
We present herewith two engravings from photographs of the decorations arranged by Messrs. A. M. & J. B. Murdoch of Pittsburg, for the wedding of the daughter of Mr. Robert Pitcairn of that city.

One illustration shows the large mirror at one end of the Pitcairn drawing-room, framed with small cycas leaves, sarracenia pipes, cypripediums, erica and bougainvil'ea.

Heavy garlands of La France roses, caught up by broad light blue shaded ribbons, were hung around the three sides of the room as can be seen in the reflection of the mirror. Baskets of La France were placed on cabinets and mantel shelf and in fireplace. On two pedestals placed to the right and left of the mirror were two large gold baskets filled with La France and trimmed with blue ribbons.

The other engraving shows the bridal table. The table, eleven feet in diameter, was covered to within fifteen inches of the edge by the design, made in nine parts, the center a circle having a stand on which was placed the large gold epergne filled with Bride roses. Around the base of this was first a row of adiantums, next to it a circle of lily of the valley. Around this were grouped the eight pieces forming the circle, two filled with adiantums, with stand on which rested the candelabra, the other six filled with Bride roses.

The second dining room table consisted



MIRROR AND ROOM DECORATION FOR WEDDING.

of an arrangement of ferns from the center of which rose a cluster of Anthurium Andreanum. At each corner of the table hearts of Bennett roses were placed.

The hall was decorated with yellow chrysanthemums in large Japanese vases and on staircase and screen. Over the musicians yellow tarletan and smilax were draped with good effect. In the parlor opposite the drawing-room large Doulton vases were filled and the mantel banked with American Beauties, while a beautiful cluster of entwined branches arranged on a flat basket covered with mosses, ferns and orchids, was placed on a center table.

The bride's bouquet of orchids was arranged in the spray shape tied with narrow ribbon with many long ends (at least a dozen). The ends were all tipped with lilies of the valley and on five of the long ends were sewed lilies of the valley the entire length of the ribbons.

At the church the pulpit was banked with plants. At either side were placed one of Jansen's new white celluloid pedestals surmounted by white baskets filled with large yellow chrysanthemums. Clusters of chrysanthemums were tied on ends of pews and a rope of the same flower thown across the aisle marked the reserved pews.

Ericas.

BY HENRY T. CLINKABERRY.

[*A paper read before the New Jersey Social Florists' Club.*]

The heath family is in recent years a very much neglected class of plants, which is a fact to be regretted, first because it is a very beautiful family, and secondly because I believe that wherever ericas were grown well that was the place to teach our young practitioners the proper use of the watering can, how to ventilate a greenhouse and how not to; it also gave them an idea of another equally important matter, how to pot a plant neatly. Thus heath growing helped to teach a young gardener three very important features of an horticultural life, to water with care, to know how to ventilate, in accordance with the weather, and to pot a plant in a neat and workmanlike way.

It may be well to say that our subject is one of our oldest cultivated hard wooded plants, and during the reign of George III ericas were in such favor as to command special attention from him, he having twice sent a collector named Masson to the Cape of Good Hope in search of them. To Masson is due the credit of bringing over to Europe most of the species and varieties now in cultivation, exception only being taken to some dozen or so hybrids which were raised by those notable gardeners of the past, Dean Herbert, of hybridizing fame, Turnbull and Marnock.

Some four hundred or more species have from time to time been introduced, but many of them have been lost to cultivation, so that it may be safe to assert that at this time we probably cannot muster more than two hundred or two hundred and fifty kinds. in fact one of the most complete collections known to me does not contain probably any more than one hundred and fifty or one hundred and sixty distinct kinds.

The erica is generally grown in a house specially adapted to its requirements, although it does not necessarily require one solely to itself, many other genera growing well with it, notably all those plants known to gardeners as New Holland plants. The houses should be span-roofed and run north and south, if possible; size is best left to the cultivator's requirements, although I should like to suggest one about twenty feet in width, twelve feet to ridge and six feet high at the sides. It should be built with movable sashes that may be entirely removed during the summer and early fall months and replaced with water proof canvas of a light texture (I prefer this to placing them out of doors for reasons which will be given later). The sides from the stages upward should be hinged so that in all suitable weather abundance of fresh air may be admitted to the plants and the side walls should be so built as to admit of sliding shutters being placed at intervals around the house on a level with the hot water pipes. The house of such dimensions as I propose would allow four-foot side tables, a center table of six feet and a three-foot pathway. If possible it will be best to have a slate staging and never use any gravel on the benches, as the moisture it gives off is very apt to generate mildew, the only disease heaths are subject to.

Having our house ready it is well we should select our plants, and I think the following kinds are the most suitable: Aitonia, Turnbullii, ampullacea, Austiniana, Candolleana, Cavendishii, cerinthoides, coronata, depressa, exquisita, Eweriana, jubata, rubra, jasminiflora alba, Marnockii, Lambertiana rosea, Parmentieriana rosea, Paxtonii, retorta major, Shannonii, all the varieties of tricolor, Turnbullii, the whole of the ventricosas and Victoria. The above are all strictly hard-wooded. The following list is softer in wood and comprises what are usually designated market heaths, hundreds of thousands of which are annually grown in England for market purposes and of which there seems never too many: Foremost of these come Erica hyemalis, gracilis, autumnalis and gracilis vernalis, persoluta alba and the ventricosa varieties. If the whole of the varieties mentioned are grown you will have some in flower all the year round.

It now remains for me to give a few simple cultural directions. First, the soil in which to grow them; this should be composed of three parts peat and one part sharp river sand. In mentioning peat it may be well to state that the best is what we consider refuse or screenings from orchid peat. Always be careful that the plant does not require watering when newly potted; knock it out of the pot and carefully remove the crocks, except

when the plant is large, when they should be allowed to remain, owing to the mass of root fibre around them. Always use new pots, if possible, as they are a good guide in watering through the first time and put ample crocks in the drainage. Set your plant in the new pot to ascertain how much soil will be required between the crocks and the ball; it is wise to do this as ericas must never be repotted any deeper, care being taken to keep the old ball on the level with the new soil. Finally with your potting stick proceed to make the soil very firm around it, ramming it down well, and smooth off the surface. The plant will not require any water for three or four days, then it should be well soaked; usually it requires to be filled up three times. Your new pot will show when it is wet through.

The erica is not one of the easiest things to propagate, still if you are careful you can strike them successfully. June and July are the best months to propagate them. In selecting your cutting take off the new side growth with a heel; the cutting should be about an inch long. Carefully trim off the leaves about one-third and the heel with a sharp penknife. Procure the necessary pots filled one-third with broken crocks and soil as used for the plants and an inch of fine sand on top and water well before you insert your cuttings; when drained proceed to dibble in your cuttings, leaving a margin of one inch to support the rim of a bell glass. Gently water again through a very fine rose and when tolerably dry place your glass over and keep close in a cool house which can be shaded from the sun. Care must be taken to wipe out your bell glass every morning and never let your sand become quite dry. In about three months the cuttings will be rooted, when the glasses can be gradually removed, first taking them off over night and replacing them again during the day for a week or two.

In March or April they can be potted off into small pots and when they commence to root in the new pots pinch out the extreme point and shift them on as their pots fill with roots until in five or six-inch pots. Bear in mind to never repot heaths until the pots are well filled with roots; never let them droop, as they are practically dead if they do. Always ascertain when to water by ringing the pot and be careful the ball is wetted thoroughly. Specimen plants will not require shifting but once in four or five years.

In conclusion I predict that those varieties, which for the lack of a better term I have called market kinds, will soon be included among our indispensable American florists' plants, blooming as they do during our festive season. These kinds are best grown out of doors from June till September and should be plunged in nursery beds of ashes or some other suitable material; they should be in their flowering pots by April or May at the latest and they are much benefitted by an occasional dose of weak guano water. Never smoke them and should mildew be troublesome dust with sulphur. Should any stock remain unsold after flowering they should be cut back to within one inch of the previous year's growth and potted on in larger sized pots and treated as before. It must be understood pinching and cutting back only applies to the soft wooded kinds.

Fern Notes.

Some of the stronger growing ferns may be used to advantage when filling conservatories, as well as for window plants and in order to have them in good condition for such use they should not be too heavily shaded, else the fronds will not stand the exposure.

To grow plants suitable for this class of decoration is not difficult, nor does it cost much, for they may be shifted on as required into five or six-inch pots during the summer, the latter size being quite large enough to be useful, and thus may occupy space that otherwise might be empty for the time being.

Several of the pteris are especially good for this purpose, from the fact that their growth is rapid and reproduction very easy, P. tremula, P. argyræa, P. serrulata cristata major and P. quadriaurita being among the best of this genus for use as large plants.

The nephrolepis also include several good examples, among them being N. exaltata, N. tuberosa (this having some resemblance to N. exaltata, though not so broad-leaved) and N. davallioides furcans, the latter being one of the handsomest and also one of the hardiest of the genus.

These three nephrolepis will flourish under cool treatment and make admirable window plants, the bright green of their long and graceful fronds being particularly attractive.

Dicksonia cicutaria, also known as Sitilobium cicutarium, is another fine fern for a large specimen, in fact is better suited for such use than for small ferneries, as its fronds soon become too tall for the latter use.

Some of the aspidiums too may be included in the present list, notably A. falcatum, perhaps more easily recognized under its older name of Cyrtomium falcatum, a remarkably handsome fern when well grown, but soon ruined by thrips when grown in too high a temperature; also some of the many forms of A. angulare, these being nearly or quite hardy. Nephrodium Sieboldi is another bold-leaved sort that is good for a contrast and is also best when grown cool.

Nephrodium Richardsii multifida may be grown in either a warm or cool fernery, the latter condition being best if the plants are required for decorative purposes.

A pleasing addition may also be made to a conservatory by the use of some ferns in baskets, many species being well adapted for this method of culture, and provided the baskets are not allowed to suffer for want of water the plants will keep in good condition for a long time.

Where the circumstances will permit some of the adiantums may be used in this way with charming effect, A. assimile being a good species for this purpose (though of no special value as a pot plant), its rhizomes soon spreading through a basket and producing an abundance of fronds.

A. dolabriforme is also an excellent species for basket use, its pinnate fronds being narrow and long and proliferous at the tips, the latter peculiarity making it an easy one to increase and also specially adapting it for basket culture.

A. ciliatum is of similar habit to the preceding, though very distinct in appearance, and also makes a fine basket, but is somewhat more tender than A. dolabriforme and therefore is not so well adapted for trade use.

Platycerium alcicorne will do well under this treatment and soon covers a basket with its oddly formed fronds, both barren and fertile, and always attracts much attention.

Among the tree ferns Dicksonia antarctica is probably the most satisfactory for conservatory decoration, being the hardiest of the arborescent species, and usually presenting fronds of sufficiently moderate size that they do not interfere with the arrangement of a small house, as might be the case with some of the larger growing species.

If, however, the space at command will permit, there are many other ferns of this character that will flourish in the average conservatory, among them being Alsophila australis, A. excelsa, Dicksonia Schiedii, Cyathea medullaris and C. dealbata, all of which are noble species and suitable for cool house culture.

W. H. TAPLIN.

Chrysanthemum Show at Short Hills, N. J.

Messrs. Pitcher & Manda, with characteristic enterprise, have started the chrysanthemum ball a-rolling, being first in the field with a splendid exhibition.

Among the chrysanthemums the prime attraction is the new hairy one, W. A. Manda. Its color is a deep, rich yellow, and in habit, shape of flower, etc. it is first class. Another notable variety is the improved Mrs. Alpheus Hardy. This is a vigorous growing variety with full deep flowers, in which the hairy filaments are much longer and more abundant than in the old variety. It is in every respect apparently a great advance on the original.

Quite a number of last year's seedlings are very fine. Hicks Arnold, yellow, is seen in many trained plants and standards, one of the latter measuring 7 feet across. Harry May is one of the best, color coppery yellow, flower very full and high in center and is a very strong grower. It is a seedling from Sachem. No. 169 is another robust grower with immense cream white flowers of great size and substance, its only drawback being that it shows the yellow center when fully expanded. Mrs. E. D. Adams is one of the best. It is also creamy white and forms a grand specimen bloom, the outer petals having a very pronounced twist. A single bloom of this variety extended out flat measured 18 inches from tip to tip of petals. Geo. Savage is an incurved white, a perfect globe and very symmetrical. Mrs. Dr. Mandeville is a fine incurved, color orange brown, an immense flower. Miss M. Colegate is a superb incurved white, first class in every respect, stems very stout and furnished to the top with foliage. Other varieties worthy of mention were A. G. Ramsay, red reflexed; Miss Bertha M. Robinson, pink incurved; Miss Mercer, pink shading to yellow center; 309, silvery pink incurved, a good market color; Mrs. W. S. Kimball, creamy white shading to yellow center; Mrs. Hood Wright, purest white, very early; Dr. Mandeville, grand yellow; Ulysses, a striking red reflexed; No. 5, a Japan importation, of Molineaux type, but darker and richer in color, petals very broad; and Gen. de Negrier (French), brilliant scarlet, a grand color.

A specimen plant of Daisy, a single white variety, attracted much attention from its beautiful symmetrical form and wealth of bloom. It was really one of the finest plants in the show.

The cypripedium display, as would be expected, was a great feature. There are two houses filled exclusively with cypripediums, of which 185 varieties are in bloom, some of them being specimen plants. Of C. Spicerianum there are some very large plants in full bloom. Of C. insigne there is an almost endless variety of new forms, one of the rarest being C. Amesianum, which is wholly destitute of

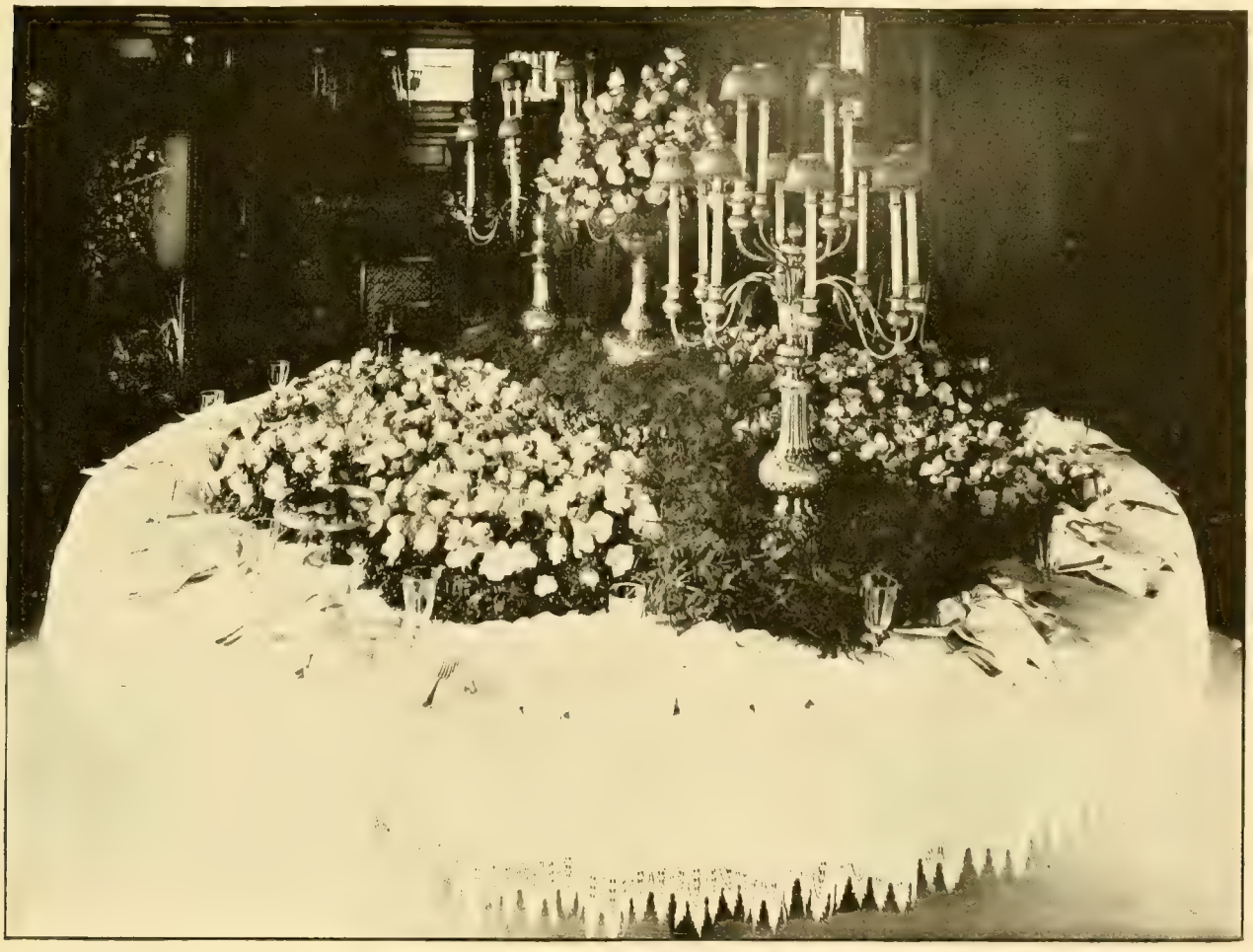


TABLE DECORATION. SEE PAGE 276.

spots. Among the very rare ones in flower were Pavonianum inversum, Shroderæ splendens, microchilum, Crossianum pallidum, marmorophyllum superbum and magniflorum. One house of blooming orchids in variety was exceedingly brilliant, being grouped with an immense number of lælias, cattleyas, lycastes, odontoglossums, oncidiums, etc. Vanda Sanderiana was shown in several varieties, one very brilliant, one bearing four large spikes of bloom. Another interesting plant was Cattleya labiata, Pescatore's variety, Cattleya Wallisii, the white variety of C. Eldorado. A unique, chocolate colored Lycaste Skinnerii and Lælia elegans prasiata were also among the rarities. A house containing 10,000 plants of Cattleya Trianæ recently received from one collector gives an idea of future glory, although not specially attractive to the average visitor as yet.

After going through the tropical houses, the forests of palms and towering tree ferns one begins to get some idea of the magnitude of this establishment which has sprung up within such a short time and already employs a regular force of 175 men. It is estimated that fully 10,000 persons have visited this great display within the past week.

A Flower Market.

A great deal has been said as to different ways and means of disposing of flowers to the best advantage to all in the trade.

I especially refer to New York City, as I am better acquainted with this market than any other. The grower, commission man and retail dealer for some time past have been dissatisfied with the way business has been conducted, which will probably be the case no matter how business is done. I have an idea as to doing business which I think will be a benefit to everyone in the trade, without making a monopoly or altering the ways of doing business at the present time.

My idea is to have one general market to be rented by the Florists' Club or any body of incorporated florists. A building large enough to accommodate all the commission dealers and growers wishing space to dispose of their flowers. Let this building be in a central location to the retail flower trade. I believe in this way of doing business. The commission would be less, also the expense of the wholesale dealer, and a great benefit to the retail dealer, he having the benefit of seeing all the flowers that arrive in the market, whereas at the present time if one retail buyer happens to do business with any one or two wholesale dealers he does not know what many others have. The grower also would have the benefit of seeing all the product shipped to the market without visiting every wholesale dealer's place of business in different parts of the city. I do not think the wholesale dealer would have any more trouble with the grower, saying he saw Mermets or any other variety of flowers at another wholesale dealer's place, not so good as his, sold for 2 cents more, as in a market of this kind every man can see for himself.

I do not think that any scheme or arrangement could be made a success without having the combination of all in the trade. A market controlled by the growers would be a failure without a doubt, as it would be like one wholesale dealer handling a few growers' product. I do not think it would be possible to get every grower to combine in the scheme, and we would surely have wholesale dealers as before.

Another scheme has been spoken of in the way of disposing of flowers by auction. As I understand it the idea would be to arrange the different varieties in vases, 25 or 50 flowers in each, and dispose of them to the highest bidder. I think this would be very satisfactory to the retail dealer and very unsatisfactory to the grower, as I believe he would be very liable to receive a great deal less for his flowers than he does at the present time. It would work very well if flowers were as scarce as they were ten years ago, when anything in the shape of a flower would sell, but at the present time there are enough flowers to supply the demand, in which case the retail buyer would make the price. Would this be satisfactory, grower? I should like to hear from others on this subject, especially the growers, as they are the ones most dissatisfied with the way business is conducted at the present time. H. E. BLAUVELT.

Nyack-on-Hudson, N. Y.

WHEN sending us small amounts in postage stamps, please select those of the 2-cent denomination.



Seasonable Notes.

Now that the battle is upon us, it is to be hoped that victories will be numerous.

In awarding certificates to seedlings, let it be borne in mind that none should have certificates unless they are actually superior to the existing kinds; certificates should mean the sterling mark. I mean not to prevent the competition where prizes are offered for seedlings; on the contrary, let them be encouraged. And if there are among these competitive seedlings any that are superior, let the society award a certificate, which should be worth more than any individual award.

Here are some points that seedlings should possess if certificates are given:

Characteristic form, pleasing color, long and strong footstalks, thick leaves, and compact habit.

Flowers must wear well after being cut.

To be shown with stems not less than a foot long.

They must be better than any of the same type or color. JOHN THORPE.

New Jersey Social Florists' Club.

At the meeting of the club on October 22 Mr. J. R. Johnson of Short Hills read an interesting paper on chrysanthemums.

In the course of a brief resume of the history of the plant he said that to English growers a major portion of the credit for the development and improvement of the chrysanthemum is due, great attention having been paid to it there during the whole of the present century, and noted the fact that every town of any importance in England has its chrysanthemum society. He referred to the growing importance and popularity of the flower here as shown by the estimates which place the number of exhibitions in this country the present year at 75 per cent in excess of the number last year. He mentioned Fortune, Salter, Molineaux, Laing, Cannell, Glenny and others in England, and Thorpe, Hill, Harris, Pitcher & Manda and Spaulding in America to whose energy, zeal and love for the flower much of its success is attributable.

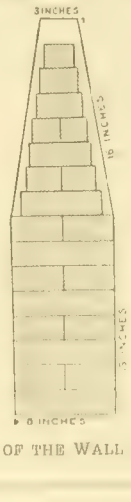
Passing on to a consideration of the cultivation of the chrysanthemum he emphasized the importance of a systematic and intelligent course of treatment, with strict attention to detail, if exhibition plants or specimen blooms are wanted. He recommended as the best soil for their successful cultivation good turfy loam about four-fifths and leaf mould and sand one-fifth, with a liberal sprinkling of bones. This compost, together with clean pots, well drained, he said would be found a potent factor towards success.

For specimen plants he recommended taking cuttings in beginning of January. Great care should be exercised that the plants do not receive a shock from becoming pot-bound and also that they receive plenty of water, for while the chrysanthemum responds readily to good treatment it likewise is very sensitive to any shock. It is well to bear in mind that every time the plants become dry or pot-bound it lessens materially the grower's chances of success. He recommended the first topping of the plants when they are six inches high and that all pinching should cease by middle or end of July. For flowers and specimen blooms he mentioned March or April as the best time for propagation and advocated planting out in a house where sash can be removed altogether and replaced as required. After a few remarks regarding the classification of the chrysanthemum he passed in conclusion to a consideration of the possibilities of the flower in the future, asserting that there is still room for great improvement and plenty of opportunity for profit in the production of new varieties. He argued in support of the theory that a blue variety is possible and is well worth trying for. The man who shall be fortunate enough to introduce it to the world will establish himself as a celebrity in the annals of floriculture and "there's millions in it."

Growing Pond Lilies.

Mr. John McElvery is a boss carpenter living at Flatbush, L. I., and a most enthusiastic amateur florist. His taste leans to bulbous plants and aquatics. He grows plants and flowers because he loves them, and not from any mercenary motive, for he does not sell any product of his garden. The Flatbush horse cars from Brooklyn run past his door, and it will profit any florist to visit him.

About the middle of last August I called to see Mr. McElvery's lily pond, and it was grand! Although I have seen many lily ponds in many pretentious gardens, I never before saw anything to equal the happy luxuriance and floral profusion presented in this little Flatbush tank.



SECTION OF THE WALL OF POND

But how does this profit the commercial florist? A case in point: When I got there I found there too a lady and gentleman from Brooklyn. They had been dabbling in aquatics for a year or two, and with but very indifferent success; indeed, some expensive plants they bought from a florist who makes a specialty of aquatics last spring didn't grow at all. Of course, they blamed the florist and wrote to him to tell him so. He replied: "Go to see J. McElvery's aquatics at Flatbush; he bought his plants from me and they have done well." They did go, and I found them there, and a more delighted party I hadn't met for many a day. The "rascality" of the florist had vanished from their imagination, they themselves were at fault, their treatment of the plants was wrong, and they noted the varieties that pleased them most and which they hadn't got, and went away to salve the "fraudulent" florist with a new order.

At my request Mr. McElvery has written the following article, giving unreservedly the details of his practice, and had the accompanying pictures taken especially for the FLORIST.

WM. FALCONER.

How I Grow Aquatics.

BY JOHN M'ELVERY.

My little lily pond is on a level grass plat at the end of our dwelling house. It is of oval form, 25 feet long, 19 feet wide, and 32 inches deep. The bottom is concreted and cemented, and the side walls of brick laid in cement and lined both back and front with Portland cement. The walls from the base for 16 inches up are 8 inches thick, but from there to the top they taper, both sides alike, to 3 inches wide.

This tapering at the top not only gives the tank a neat appearance, but is serviceable in lessening the pressure against the wall from frost in winter, both from the water in the pond and the ground on the outside.

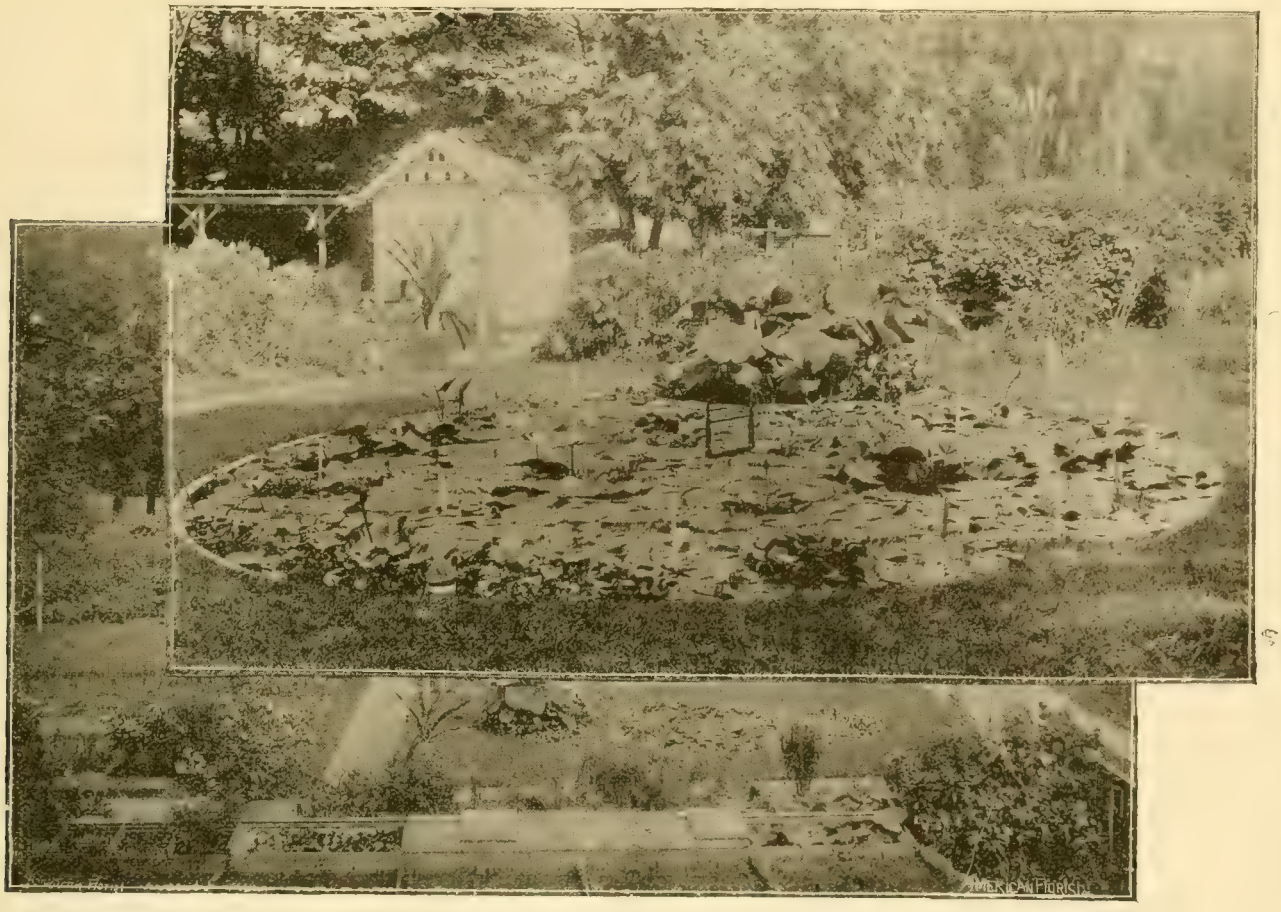
Provision is made for draining the water at will from the bottom of the pond, and also the overflow pipe being made of rings or sections like a pocket drinking cup, I can have the water at any height or shallowness in the pond I please.

Before commencing to concrete the bottom of the pond I put in the center a cedar post 4 inches in diameter and rising 6 inches above the water surface; around the top of the post is an iron band to strengthen and prevent it splitting, and downward from the top I bored a hole, and inserted in it a 1-inch piece of gas pipe, and on this pipe is secured a revolving double T, which can be seen in the middle of the pond. The use of this double T is to support the end of a plank, the other end of which rests on the grass outside the wall. This plank is used as a pathway into the pond, and I find it indispensable in planting, cleaning off dead leaves, gathering flowers, regulating the distribution of the plants and foliage and getting seed; and by lifting the end that rests on the grass, I can carry it around the pond wherever I please, the other end resting on the revolving T, moving around also, and in this way get to any part of the pond I wish with very little trouble and without getting wet.

The water I use is the rain water from my dwelling, and which is led into the pond from an iron pipe connected with the leaders, and passing underground to the tank. This gives me soft water at an even temperature with the atmosphere. The water in the pond is not heated artificially in summer, but can be in spring or fall.

The soil used consisted of fresh loam and cow manure in equal parts, and 75 pounds of bone flour, all mixed well together and put in 16 inches deep.

I planted out the hardy lilies during the last week of April. These consisted of 3 plants of Nymphæa odorata, 3 N. odorata var. rosea, 1 N. pygmæa, 2 N. candidissima, 1 N. flava, 1 N. Mexicana, and 1 N. marliacea chromatella, a plant of the deliciously fragrant Cape pond weed, Aponogeton distachyon, and a plant of Nelumbium speciosum. As the nelumbium is a tall and vigorous grower, and spreads considerably at the roots, you will observe in the picture that it was planted at the end of the tank, and in order to be able to keep its roots within bounds a 4-inch brick wall has been built up around the clump. On the 1st of June



THE UPPER PICTURE GIVES A VIEW OF MR. McELVERY'S LILY POND, AND THE LOWER ONE HIS TANK FOR PROPAGATING, AND WINTERING TENDER SORTS.

I added 1 N. dentata, 1 N. Devoniensis, and several blue, purple, and rose-colored forms of N. Zanzibarensis. All of these, both hardy and tender, have grown well and blossomed beautifully, and the aponogeton and N. pygmæa and N. Zanzibarensis have been in bloom continuously. Have had as many as six flowers open on N. dentata at one time, and they averaged 8 inches across; indeed, one of them measured 10 inches. And on the 25th of August, on one plant of N. Devoniensis, were 16 open blossoms and 18 unopen flower buds.

In addition to the foregoing plants there are in the pond Nymphæas scutifolia, cœrulea and rubra, also the little floating moss (Azolla Caroliniana), water lettuce, (Pistia stratiotes), water poppy (Limnocharis Humboldtii), water hyacinth (eichhornia), and callas.

To act as police in the matter of grubs and mosquitos and other insect vermin, I have a number of silver-fish, gold-fish and spotted sun-fish in the pond, and also one or two frogs and a turtle. And to please the children a decoy duck, row-boat, sail-boat and schooner, all in miniature, find a place upon the water.

Near by the pond I have a tank 6 feet wide, 30 feet long, and 32 inches deep, made of brick and cement and divided into four equal parts. It is gotten up in hot-bed-like fashion, roofed with movable sashes, and heated by hot water pipes from a small boiler set in a pit alongside of the tank. And the heating arrangement is such that any one compartment can be heated independent of the others, or more than one or all can be warmed at pleasure; further, by means of a flow and return 1¼-inch pipe passing from the tank into the pond the water in the pond can be heated at will, if so desired. Indeed, I believe to this is due a good deal the kindly start my plants take in early summer, and their extra lateness in keeping in bloom in fall.

I built this tank with the view of wintering my tender lilies in it and propagating and giving the plants a good start before planting-out time. In the summer time it is uncovered and a perfect glory of pond lilies of all kinds, sizes and colors, for it as well as the pond is filled with flowering plants.

In one section of this tank, February 1 last, I sowed seed of three varieties of N. Zanzibarensis, and on May 1 two plants raised from these plants were in bloom. The seeds were sown in a large flat box immersed in the water, and when the seedlings had 3 or 4 leaves apiece, I transplanted them singly into boxes 6 inches square by 4 inches deep, and made of ½-inch rough pine, using soil same as for outside pond, and put the boxes into the tank one inch under water. Kept the temperature of water at 70° or 80° (and once by accident it got up to 110°, but without any visible injury to the plants), and as the plants increased in size lowered the boxes a little more till they rested in a 16-inch deep bed of loam in the bottom of the tank. During the summer I have had as many as 8 or 10 blooms open on one of these plants at a time. I also planted out some of these lilies in the pond where the water was 15 inches deep; others in butter tubs and set out in the pond with only three inches deep of water over them. But the best results both in size and quantity of blooms, were obtained from the plants growing in the 6x6 boxes in shallow water, the next from the butter tubs, and the poorest from the plants set out in the bed in the deep water in the open pond. But the boxes containing the plants giving the most satisfactory results rested on a bed of loam, into which the roots found their way through the apertures in the bottom of the boxes.

The roots of the tender kinds, with a few pieces of the floating plants I lift in fall, and put into the tank in the pit. The hardy varieties will be left outside in the pond, which will be covered over near the margins with boards, tree leaves, and other handy material to keep the water from freezing deep.

Let me advise amateurs not to plant too thick, for it is the leaves growing so thickly together and overlapping each other that causes so many of them to get broken, disfigured, and withered through the summer.

Water lilies seed generously, and the seeds germinate freely, often giving blooming plants when the seedlings are 4 months old. To catch seed that has escaped from a burst pod in the water, and is swimming about on the surface, I have had made by a tinner a small pan of finely perforated tin in the form of a dust-pan and open at the top, and for washing the pulpy substance from the seeds in have had a second pan made just like the other, but closed on top so as not to let the seed escape in washing. In saving seed, as soon as it is washed I put it into a tumbler filled with water and let it stay there till the coating rots off and the pure seeds fall to the bottom of the glass.

New York.

Chrysanthemums and the chrysanthemum show form the all absorbing topic at present in floricultural circles and there is no interest left for anything else. Roses have to take a back seat for the time being. The recent bright weather has also increased the cut of roses and the result is a market overstocked and a decline in prices. While the figures quoted on small lots or extra selected stock do not show much of a drop from last week, yet when it comes to the transactions in which large quantities are disposed at once the prices received have been very low, say $15 to $20 per 1,000 for good assortment of roses.

American Beauty still holds the supremacy and is really the only high grade rose in the market. First quality blooms sell as high as $30 per 100. Mme. Pierre Guillot is improving in quality and is beginning to be looked upon with favor. A large vase of Cornelia Cook roses on Thos. Young's counter recently was quite a curiosity and was a sort of reminder of old times. They came from that old time grower, Littlejohn.

Carnations continue to sell well. Violets are not in good shape yet, although improving. The supply is far short of the demand: the same is true of lily of the valley, which has advanced to $8 per 100.

Chrysanthemums, if extra fine blooms, sell well considering the quantity offered. A great many of the best are being reserved by the growers for exhibition purposes and this helps to keep the price of specimen blooms quite steady. In the cheaper quality white flowers seem to sell most readily.

Mr. Thos. E. Keegan, formerly bookkeeper for Thos. Young, Jr., died on October 29. He has lately been in the employ of Mathieson on Sixth avenue. He was one of the best liked men in the business here. Many beautiful floral tributes were sent to the funeral, including an ivy cross from the clerks and a handsome wreath of pansies from John Young.

Louis Patterson, for several years foreman for Thos. Young, Jr., is no longer in Mr. Young's employ.

At the October 27 sale at the auction rooms of Wm. Elliott & Sons, Marie Louise violet plants brought from 17 cents to 20 cents, Swanley White went for 8 cents. Carnations Hinze's white, Emily Pierson and Lamborn brought 4½ cents, 6 cents and 8 cents respectively.

Mixed hyacinth bulbs sold for $2, mixed tulips for 50 cents, narcissus $1, crocuses 25 cents and Lilium Harrisii for $4 per 100.

There was a choice assortment of stove and greenhouse plants from John S. Bush. A set of six Nepenthes, viz., Hookerii, Mastersiana, Chelsonii, Veitchii, Rafflesiana and Dicksoniana, brought $1.50, $2, $1.25, $3, $2.25 and $1.25 respectively. Nice plants of Adiantum Farleyense sold for 75 cents. Cycas circinalis, six feet high, brought $19.

The stock at R. B. Young & Co.'s consisted principally of palms and foliage plants. Araucaria excelsa from 3 to 4 feet high brought from $2.50 to $7; A. excelsa glauca, same size, brought $5 to $6.

There was a good number of fine plants of Cycas revoluta sold. Plants with 15 to 20 leaves sold from $4 to $5. Specimens bearing from 35 to 50 good leaves brought from $26 to $48.

The scheme for selling cut flowers by auction seems to have died in extreme infancy. It must have been a very weakly child.

Ernst Asmus is cherishing an improved Mme. Cusin, which he says is a stronger and better rose every way than the original variety. Possibly it was at a time when his mind was engrossed with visions of future profits from this acquisition that he inadvertently exchanged overcoats with a strange man, as is rumored.

There is considerable criticism hereabouts regarding certain circumstances connected with the settlement of the Jas. Vick business. Details later.

Your Philadelphia correspondent appears to be getting very particular. The Philadelphia boys first made the proposition for the bowling match and it was at the time considered by the New Yorkers present as a challenge. It makes little difference who made the challenge, however. Who will win the trophy? That's the question.

ON THE JERSEY SIDE.

Ernst Asmus' big establishment at West Hoboken has been a shrine for chrysanthemum lovers during the past two weeks. Such a display in quantity and quality is rarely seen, and if Mr. Asmus don't capture a goodly share of the big premiums offered at the various exhibitions it won't be his fault. With the exception of one housefull, which are grown to single stems, all his plants are grown with from three to five blooms. The number of varieties is very large, including a great many new kinds, as well as the best of the old varieties. Gloriosum is done so well here that the flowers would scarcely be recognized as belonging to that variety. Jessica and Domination are also very fine, the latter, however, having much more of a pink tinge in it than is usually the case, and not so pleasing to look upon as when pure white. Ada Spaulding and Molineaux are both grand. Rohallion has proved itself here as elsewhere to be a first-class early. Mary Wheeler is an unusually high-centered pink variety, and Mary White Thomas, a late one, waxy white, promises enormous blooms. Mr. Asmus is particularly struck with the good qualities of Mermaid, Fred Dorner's pink seedling.

One of the most satisfactory varieties is Ivory. A long bench of it in full bloom is one of the prettiest sights in the whole establishment. The plants are very dwarf, of uniform height, and the blooms of purest white and unexcelled in form.

Two seedlings, Vesuvius and C. B. Whitnall, both incurved, promise well. The color on the inside of the petals in both these varieties is of an unusually rich velvety red.

Among the new French varieties, Mr. Asmus mentions Sabina Mea, a yellow globe-formed early flower, not large, but of good form and very pretty. Fred Bergman, white, no good; and Rose Laing, color similar to a La France rose after a three days' sojourn in an ice-box.

The Meteor rose is blooming finely with Mr. Asmus this season. He attributes the bull-heads and general failures of other growers with this variety to too low a temperature. He claims that it needs plenty of heat to be grown successfully.

Julius Roehrs, at Carlton Hill, has also made considerable preparations to compete for premiums, this being his first year of growing chrysanthemums for exhibition purposes. H. E. Widener and Miss Wanamaker are magnificent here. He has been going heavily into new varieties, some of which promise well, while many prove unworthy of cultivation and of no credit to their introducers, whose short-sightedness in sending them out Mr. Roehrs denounces in very vigorous language. Among the new ones that appear meritorious are Mon Ami Hughes, a fine early white incurved; Mrs. Frances Schener, a dwarf early yellow; James R. Pitcher, which is similar to Mermaid and possibly a little better in color than that variety; and Carrie, which promises to be a fine large white.

Mr. Roehrs' stock of palms and decorative plants is as big as ever, apparently no end of houses filled to overflowing with kentias, latanias, arecas, etc., in every size. One house of araucarias is well worth going many miles to see. There are very few of the common excelsa to be seen, but a host of beautiful specimens of such splendid varieties as excelsa glauca and robusta. The center of attraction is two fine plants of glauca robusta, said to be the only two in this country.

A housefull of Pandanus Veitchii is also worthy of a visit. The plants are unusually well colored.

Two specimens of Draceæna lineata are deserving of notice from the fact that they were planted out of doors last spring while quite small plants and are now splendid specimens five feet high, furnished from the pot up, without a blemish.

Mr. Roehrs evidently was not satisfied with his hybrid rose business last winter, for he has turned several of his hybrid houses into azalea houses, and has filled with a very fine collection of imported azaleas in pots in all sizes.

Philadelphia.

The past week has been the busiest of the season. There have been a number of fashionable weddings with more or less floral decorations, some of them being quite elaborate. Choice flowers of chrysanthemums were largely used.

Some very fine Ivory and Mrs. Bullock are now being sent in by Messrs. Harris, Scott and Heacock. Ivory is without doubt the finest white in cultivation.

Robert Craig has a house of Widener which looks very fine; he will commence to cut this week. His lot of seedlings are developing magnificent flowers and we fully expect to see some new varieties of merit added to the already long list. He received the past week a large consignment of Bay laurels and araucarias from Europe; they arrived in fine condition and are a splendid looking lot of plants.

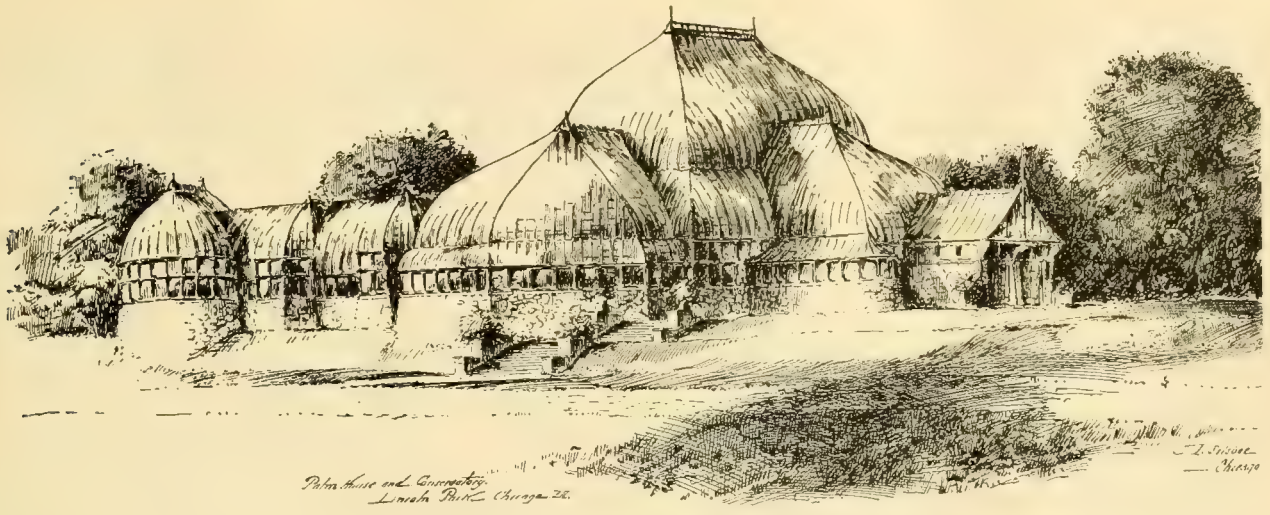
Edwin Lonsdale has been indisposed and confined to the house for a few days past with a severe cold. We are happy to say that he is on the mend and will be about again in a day or two.

Everything about his place seems in apple pie order; the stock, especially the roses, looks very well. He thinks the new rose Mme. Pierre Guillot will be a good one and a great improvement on Mme. de Watteville, which it resembles in color.

His stock of orchids is in fine condition and should produce abundantly this winter. He has a fine stock of Areca lutescens.

At John Burton's we noticed the roses were tied to galvanized iron rods of No. 14 wire. These are tied at the top to wires running the length of the house. This plan seems to have advantages over all others, as there is nothing to wear out, and when the soil is being changed the rods can be taken down and laid away and are ready for use at any time.

A house of cypripediums is a mass of buds and flowers, in fact everything about



NEW CONSERVATORIES AT LINCOLN PARK, CHICAGO.

the place seems in a perfect state of cultivation.

Mr. Farson, secretary of the Penna. Horticultural Society, says that the entries for the coming show are so large that it will be difficult to obtain room to provide for all the exhibits. All he wants now is good weather and the show can't help but be a grand success from every point of view, the box office included.

The improvements in the library are about completed and the room will soon present a very inviting appearance.

Henry Rainey died October 28, aged 68 years. Mr. Rainey's first position was with Henry Dryburg, of camellia fame, where he finally rose to the position of foreman. After a long service he resigned to take charge of John Dick's city store, which he carried on successfully for a number of years. About 1865 he left Mr. Dick and started in business for himself, which will now be continued by his son Henry, who was recently admitted to the firm. Mr. Rainey was very well liked by the trade and loved to talk of the good old times when camellias brought $1 a piece and roses were not even thought of.

Valley is scarce and commands $8 per 100. Roses are fairly plenty, the best Brides, La France, Mermets, and Cusins bringing $4 to $5; $3 is asked for Perles, Niphetos and Gontiers. Fair Beauties are to be had for $20. Choice chrysanthemums sell for $15 to $20, and the commoner flowers from 10 cents a spray to 50 cents per 100.

The Stylus Club, of Philadelphia, gave a dinner last week, the decorations for which were quite novel. It was called a Sylvan dinner and the entire dining-room was transformed into a veritable forest.

Doors, windows, walls and floor had all disappeared from view, and the spectator on entering from a side room through a leafy bower beheld nothing but trees, bushes, vines, and flowers in the dim lights that swung from the branches of the pines, firs, and maples. The floor, or rather the ground, was covered with thousands of autumn leaves in all their beautiful variegated colors, little fields of daisies here and there dotted the earth, and pumpkins and other products of the soil were scattered about as on the outskirts of the wood. Little nooks under canopies of foliage were filled with rustic chairs and settees.

The table was spread under the overhanging branches of the trees, and was decorated in exquisite taste. When the members and guests entered the woods in the dim light and arranged themselves around the table, soft music from an invisible orchestra floated through the trees. As they took their places around the table the forest was suddenly illuminated by a blaze of myriads of colored electric lights. Overhanging the head of the table a beautiful shield, with the figures "14" in electric jets, was lit amidst the singing of birds which flew about the branches, and the chattering and grimacing of monkeys clambering on the trees.

Mr. Rob't Craig is very enthusiastic over the fine qualities of the new early chrysanthemum, "Mrs. J. G. Whilldin." It is a fine yellow with full, high center, almost a globe when fully blown and is likely to displace Gloriosum as an early yellow, being of much better form and substance than that variety.

New Conservatories at Lincoln Park.

We present herewith an engraving from the architect's drawing of the new conservatories now in course of construction at Lincoln Park, Chicago. The height will be 54 feet at the center and 30 feet at the ends, and that of the orchid and New Holland divisions, 20 feet. The building will stand seven feet above the lawn and the ground will be terraced down to the flower garden in front.

Hot water will be the system used in heating and to overcome friction in the long length of pipe used a steam pump will be connected with the return pipe near the boiler and thus the water will be impelled into a more rapid circulation, which can be increased or retarded at will by increasing or diminishing the speed of the pumps. The pressure system will be adopted whereby the temperature of the water can be increased to 250° if required. The radiating surfaces in the houses will be cut into independent sections, each controlled by automatic heat regulating devices.

The houses are constructed entirely of stone, iron and glass; trusses, rafters and purlins of wrought iron. The bars are of the Hellewell patent (steel and zinc) and the glass rough ribbed plate.

The construction of a fernery alongside of the conservatory, 90x60 and 25 feet high, is deferred until another season. The house will be of stone walls and glass roof and will be lower than the palm house by 6 feet and will have masses of rock filled in a picturesque fashion along its walls, and with running water, cascades and ferns planted among the rocks will simulate the fern tufted rocky dells of nature.

Boston.

The stock of chrysanthemums coming to the city every morning at present is very fine. The average run of the great bulk of the blooms seen in the florists' windows equals what two or three years ago was prize-winning stock, while the extra fancy blooms are such as were scarcely dreamed of a few years ago. Very few of the old-fashioned common stock in bunches is now sent in. What little there is goes for 50 cents a bunch, but even the street fakirs turn up their noses at it. Good average blooms bring from $1 to $2 per dozen, and some extra fine stock sells as high as $4 a dozen.

Carnations still hold up well, both in quality and price. Some of the Grace Wilder's coming to this market now would scarcely bear out Mr. Dorner's theory of the short life of an individual variety as expounded by him at Toronto last August. Since Wilders were first grown they were never finer than they are this year. Roses are weakening somewhat under the influence of the chrysanthemum and the pleasant weather.

Referring to the current criticisms on the behavior of the Waban rose, Mr. W. H. Elliott says that his faith in it is not shaken in the least. He planted 1,000 of that variety and has been watching them carefully. His experience so far leads him to think that the Waban will throw under equal conditions nearly if not quite 50 per cent. more blooms than the Mermet, so that even if sold at the same price per bud as the Mermet the net proceeds would go a long way towards offsetting the extra cost of the plants at the beginning. He finds that the Waban throws smaller and weaker growths than the Mermet and the tendency is to somewhat smaller blooms; also that when it does flower on large, vigorous growth the buds are apt to be malformed. In color it is fully up to expectations.

Mr. Wm. Edgar is cutting quantities of fine chrysanthemums and will have some

good blooms for the exhibitions. His crop of Mme. Le Croix is almost entirely cut. Cannell he likes better than Kioto, on account of the growth of the foliage closer up to the flower. Of this variety he has splendid specimens, also of those two magnificent white varieties, Bride and Mrs. Langtry. Domination is also looking unusually fine. He has a sport from Domination which is much admired. Its color is a very clear pink. Mme. Louise Langlois, he says, is no good. It is a thin flower, and the petals drop off badly in handling. His three houses of Grace Wilder carnations are in promising condition; also a house of mignonette which will be ready to cut in December.

Mr. H. A. Gane is an amateur, a great chrysanthemum lover. At his conservatory in West Newton he has a number of beautiful seedlings, one of which, a pearl white seedling from President Hyde, looks very promising, and another one, also white, has most remarkable foliage, it being thick and almost as glossy as a holly. Mr. Gane has the best plant of Louis Boehmer ever seen here. It bears twelve splendid specimen blooms. Mrs. J. N. Gerard is also in extra good shape.

Mr. A. H. Fewkes has a good display of specimen flowers, including Mrs. J. N. Gerard, Vivian Morel (Fr.), Mme. Eugene Mulson (Fr.), Mrs. W. Baker, one of the Mrs. Hardy set, Duchess of Connaught and Coronet.

From the Waban conservatories there are coming into the market every day some superb specimen chrysanthemum blooms. Their quality is best described by saying that the price they bring is nearly double the average received by other growers.

Mr. Elijah A. Wood is greatly pleased with this year's experience with two of his last season's seedlings, Mrs. E. W. Wood and James H. Freeland. A seedling of this year which he has named Edward Hatch shows up finely. It is a very full, high flower, color similar to Puritan, white, with violet pink shading. Among his specimen blooms for exhibition is one flower of Ernst Asmus, which looms up with a luster equaled only by its great namesake.

The following scale of points will be used in judging plants at the chrysanthemum show of the Mass. Hort. Society.

No. 604 to be judged by the following scale of points:

	Points
Size and form of plant	25
Size of bloom	20
General effect	30
Foliage	25

Nos. 601 to 613, inclusive, to be judged by the following scale of points:

	Points
Size and form of plant	40
Size of bloom	30
Foliage	30

In addition to the regular prizes the G. & F. club offers a liberal prize for ten vases of long-stemmed flowers in ten varieties. Peter Henderson & Co. offer a special premium for the best 12 blooms of Louis Boehmer.

The annual supper of the G. & F. club will take place on Wednesday evening, November 11, to be preceded by the bowling match in the afternoon. Quite a number of notable visitors are expected.

Mr. John Walker, representing Robert Craig, of Philadelphia, has been perambulating Boston for the past week seeking orders for palms and other decorative plants. If he succeeds as well as the house deserves he will go back with a full book.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Chicago.

Preparations are now complete for the exhibition of the Horticultural Society next week. The preliminary announcements have evoked much inquiry and the public seems greatly interested. Barring unfavorable weather the exhibition will be so far ahead of previous efforts in this direction as to make comparison decidedly odious.

Chief Thorpe, of the Floricultural Division of the World's Fair, is again confined to the house by his old enemy, rheumatism, and as a result he was unable to go to New York to see the great exhibition there, as he had anticipated. Mr. Thorpe's family has arrived from the east, and "Uncle John" is getting settled for his long stay in this city.

On the 28th ult. Mr. Thorpe received a lot of handsome chrysanthemum blooms from H. L. Sunderbruch, of Cincinnati. The lot included Domination, Alcyon, H. E. Widener, Ada Spaulding, Louis Boehmer, Mrs. Irving Clark and others, and the flowers averaged 8 inches across.

Florist, fruiterer, caterer and intelligence office is the latest combination. It has materialized on the North Side.

Geo. A. Solly & Co. have opened a floral store at 83 Forty-third street and will also do landscape gardening.

At Ravenswood C. Naslund has added six new houses each 18x120. The entire plant will be devoted to growing cut flowers for the Chicago market.

Messrs. J. T. Anthony and O. P. Bassett left for New York last week to attend the exhibition there. They will return in time for the Chicago show.

Mr. J. C. Vaughan's greenhouses at Western Springs are now gay with thousands of chrysanthemums, and the large number of new sorts in bloom makes the display of very great interest. A few of the sorts that attract special attention just now are Waban, a very large, striking flower of a beautiful shade of pink; Beatrice Card, in the way of Cullingfordii as to color, but even richer; Clara James is decidedly unique, and J. C. Vaughan is in the way of John Thorpe, but with broader petals and richer color, the outer petals recurved and the inner ones incurved. There are some splendid specimen plants, including some noble standards, here, and they will undoubtedly be a most attractive feature of the coming exhibition.

Among other plant novelties to be seen here and that give special promise of being useful, are Fuchsia Beauty of Exeter, which seems to possess the varied requirements of a florist's market plant to a marked degree, and a new tropæolum (not yet named), with markings as soft and beautiful as those of a pansy. The new rose, Triumph d'Pernet, is considered an unusually promising forcing variety. It is a hybrid tea, has the form of the Jack, is very finely colored, a good grower and free bloomer. Among the recent importations is a lot of imantophyllums, for which there is thought to be quite a future, and a variegated grass with the delightful name of Ophiopogon Jaburan aurea var.

St. Louis, Mo.

The premium list for the first annual chrysanthemum show and floral exhibition of the St. Louis Florists' Club has been issued. The premiums are very liberal, the club having been enabled to cover a large field without stinting in any classes through the liberal assistance from the Henry Shaw estate. The premiums for orchids and seedling chrysanthemum plant are both offered by the Shaw estate. Though this is the first effort of the St. Louis Florists' Club, it is supported by the enthusiasm of all members of the club and the public is displaying much interest. It is hoped that growers in other cities will compete. Premium lists may be had on application to the secretary of the club, Mr. Emile Shray, 4101 Pennsylvania avenue.

The second annual banquet to florists, nurserymen and gardeners, instituted by Henry Shaw, will be given at the Mercantile Club Tuesday evening, Nov. 10. This is always a very enjoyable event and is looked forward to with pleasure by all who are favored with invitations.

Chrysanthemum Names.

Messrs. E. G. Hill & Co., have registered chrysanthemums as follows: Abbe Mendenhall, C. B. Whitnall, Dr. R. B. Covert, Fred Dorner, John F. Miller, James Morton, John Bertermann, Joey Hill, Judge Hoitt, Mrs. Louis Childs Madeira, O. P. Bassett, Vesuvius, W. G. Newitt.

EDWIN LONSDALE.
Sec'y Am. Chrysanthemum Society.

News Notes.

AUSTIN, ILL.—Jos. Shaw has sold out to Josephine Barnebee & Co.

OSAWATOMIE, KANS.—L. W. Jacobs has added two new houses, one 50x18 and the other 50x9.

PITTSBURG.—Business has been very brisk of late: One firm—A. M. & J. B. Murdoch—had three large wedding decorations and one banquet in one week.

RACINE, WIS.—Florist F. Fountaine will make a display of chrysanthemums Thursday and Friday of next week and in addition will award $25 in prizes to amateur competitors.

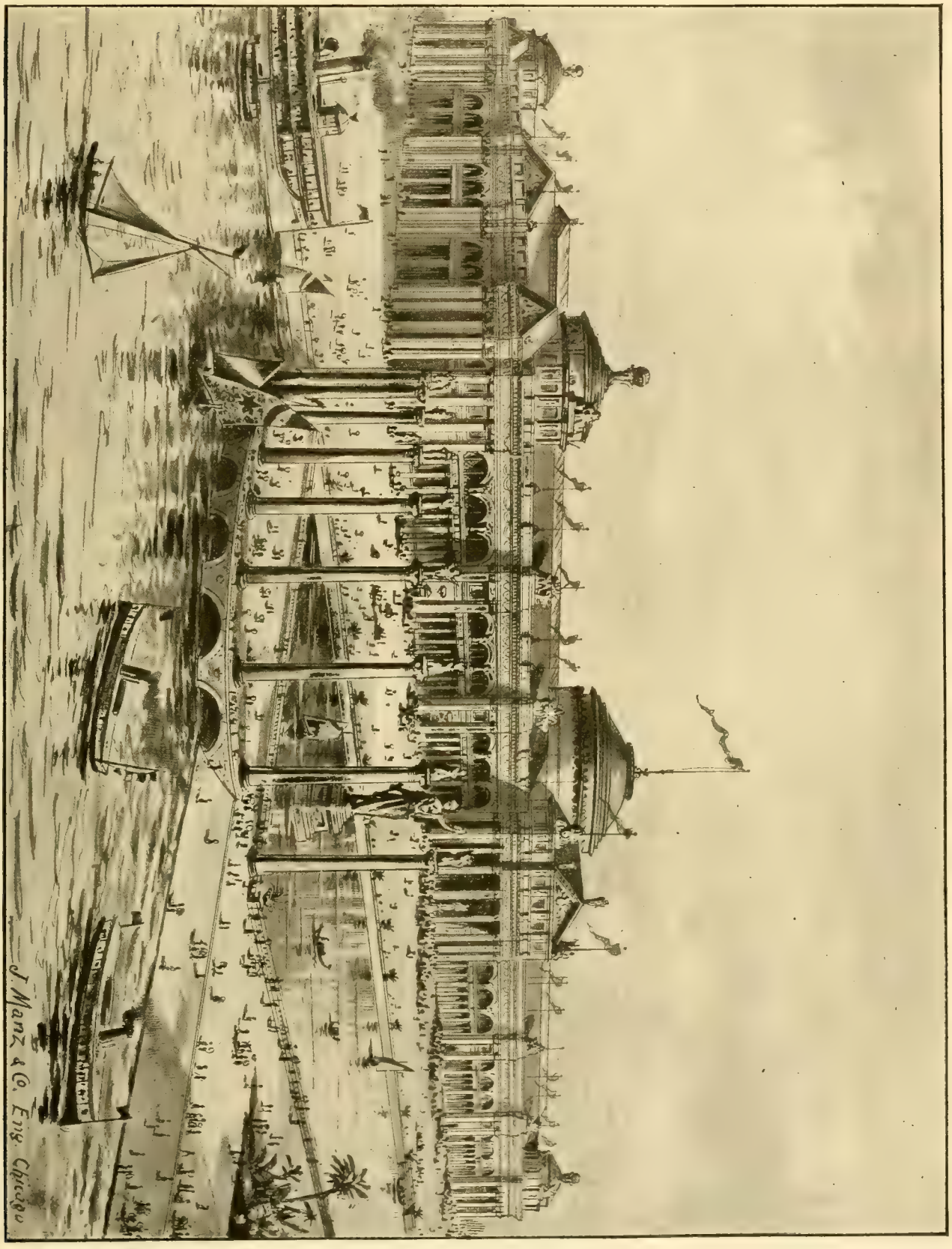
ST. JOSEPH, MO.—Trade has been lively of late and some of the time the demand has exceeded the supply. Stock is all in fine condition, especially roses. Chrysanthemums are a week later than last year.

HAMILTON, ONT.—The Gardeners' and Florists' Club began the new year with a small balance on the safe side, and the members hope to have an interesting time the coming winter. Mr. F. G. Foster has opened a down town store on King street west. Business very fair at present.

SAN FRANCISCO.—At the November meeting of the California State Floral Society there will be presented papers upon "Choice flowering shrubs in Golden Gate Park," "Bulbs" and "New roses and carnations." The meetings of this society are uniformly interesting and it is accomplishing much good.

BIG RAPIDS, MICH.—Florist L. L. Blair and the Ladies' Monument Association will give a chrysanthemum show here November 10, 11 and 12. The ladies will supplement the attractions of the exhibition by singing and dancing, and the admission price is only 15 cents. This is the second annual exhibition of this kind.

INDIANAPOLIS.—The fifth annual meeting of the Society of Indiana Florists will be held in this city November 11 and 12, during chrysanthemum show week. An excursion rate of one fare for the round trip has been secured from the railroads



THE AGRICULTURAL BUILDING FOR THE WORLD'S COLUMBIAN EXPOSITION AT CHICAGO IN 1893.

in the state, on account of the chrysanthemum show. The annual meetings of the society will hereafter be held in November during exhibition week, instead of in January, as heretofore.

Agricultural Building at the World's Fair.

We present herewith an engraving of the Agricultural building for the World's Columbian Exposition, at Chicago, in 1893.

With the exception of the Administration building, the Agricultural building will be the most magnificent structure on the exposition grounds. In size it is 800 by 500 feet, severely classic in style. It is almost surrounded by lagoons. The features of this building are its five pavilions, one at each corner and one in the center. The corner pavilions are 64 by 48 feet. The grand entrance is on the north. It is 60 feet wide, leading into a vestibule 30 feet deep and 60 feet wide. At the entrance are Corinthian columns, 5 feet in diameter and 40 feet high. Beyond these massive columns is the rotunda, 100 feet in diameter, surmounted by a glass dome 130 feet high. There are eight minor entrances, 20 feet wide.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

Hartford, Conn., Nov. 9-11—Hartford Co. Hort. Society. Edwin A. Taylor, Sec'y, P. O. box 1015.
Detroit, Mich., Nov. 9-13—Detroit Florists. Robert Flowerday, Sec'y, 460 John R St.
Louisville, Ky., Nov. 9-14—Louisville Florists. H. Nanz, Sec'y, 582 Fourth Ave.
Galt, Ont., Nov. 10-11—Galt Hort. Society. Thos. Vair, Sec'y.
Pittsburg, Nov. 10-12—Pittsburg and Allegheny Florists' and Gardeners' Club. G. Osterle, Sec'y, 508 Smithfield St., Pittsburg.
Newport, R. I., Nov. 10-12—Newport Hort. Society. John Butler, Sec'y, Berkeley Ave.
Toronto, Ont., Nov. 10-12—Toronto Gardeners' and Florists' Club. A. H. Ewing, Sec'y, Normal School Toronto.
New Bedford, Mass., Nov. 10—12—New Bedford Gardeners' and Florists' Club. Geo. C. Bliss, Sec'y, 34 Arnold St.
Washington, D. C., Nov. 10-12—Washington Florists' Club. Eugene Cadmus, Sec'y, 1419 R St. N. W.
Oshkosh, Wis., Nov. 10-12—Oshkosh Florists' Club. Mrs. G. M. Steele, Sec'y.
New Haven, Conn., Nov. 10-12 New Haven Chrysanthemum Club. Miss Frances S. Ives, Sec'y, 478 Orange St.
New Britain, Conn., Nov. 10-12—New Britain Hort. Society.
Boston, Nov. 10-13—Mass. Hort. Society. Robert Manning, Sec'y, Horticultural Hall.
Philadelphia, Nov. 10-13—Penn. Hort. Society. D. D. L. Farson, Sec'y, Horticultural Hall.
Chicago. Nov. 10-13—Hort. Society of Chicago. G. L. Grant, Sec'y, 54 La Salle St.
Minneapolis, Minn., Nov. 10-13—Minneapolis Florists' Club. E. Nagel, Sec'y, 1116 West Lake St.
Baltimore. Nov. 10-13—Gardeners' Club of Baltimore. Henry Bauer, Sec'y, 1875 N. Gay St.
Indianapolis, Nov. 10-14—Society of Indiana Florists. W. G. Bertermann, Sec'y, 37 Mass. Ave.
Germantown Pa., Nov. 10-14—Germantown Hort. Society. Thos. E. Meehan, Sec'y.
Worcester, Mass., Nov. 11-12—Worcester County Hort. Society. E. W. Lincoln, Sec'y, 5 Oak St.
Montreal, Nov. 11-12—Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.
St. Louis, Nov. 11-13—St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania Ave.
Springfield, Mass., Nov. 11-13—Hampden County Hort. Society. George D. Pratt, Sec'y, 192 Maple St.
Utica, N. Y., Nov. 11-13—Utica Florists' Club. J. C. Spencer, Sec'y.
Syracuse, N. Y., Nov. 12-13—Central New York Hort. Society. H. Youell, Sec'y, 228 Beecher St.
Buffalo, Nov. 12-14—Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.
Providence, R. I., Nov. 12-14—Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.
Willmington, Del., Nov. 12-14—Florists of Willmington.
Bay City, Mich., Nov. 16-21—Bay County Hort. Society. T. J. Cooper, Sec'y, 811 N. Water St.
New Orleans, La., Nov. 17-19—New Orleans Hort. Society. Charles Wise, Sec'y, Third and Prytania Sts.
Milwaukee, Wis., Nov. 17-20—Wisconsin Florists' and Gardeners' Club. C. B. Whitnall, Sec'y, 438 Milwaukee St.
St. Paul, Minn., Nov. 17-20—St. Paul Florists. L. G. Venzke, Sec'y, 131 East Sixth St.
Little Rock, Ark., Nov. ——Little Rock Florists' Club. D. M. Tipton, Sec'y.
Philadelphia, March 29-April 1—Penn. Hort. Society. D. D. L. Parson, Sec'y Horticultural Hall, Broad St.

AND NOW come the exhibitions. Nearly every one of the larger cities in America will have an exhibition of chrysanthemums and other plants and flowers this week or the week following. That these exhibitions, so widely distributed, will vastly increase the interest in flowers in every part of the land, and consequently advance the best interests of the trade, none will doubt. The reporting of such a large number of exhibitions, coming nearly all at the same time, will be difficult, but the FLORIST will undertake to give at least condensed reports of all in the next two issues.

THE MANAGERS of the Madison Square Garden Chrysanthemum show at New York found it expedient to change the conditions regarding the entries for "Best seedlings, never before exhibited" to one or more blooms of each instead of six, as per schedule.

AN adjourned meeting of the American Carnation Society was held at the St. James Hotel, New York, Wednesday, the 4th inst., to perfect the organization begun in Philadelphia. A full report of the proceedings will appear in next issue.

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

YOU OUGHT to have the number of feet of glass in your establishment correctly given in the forthcoming corrected edition of our trade directory. To insure this accuracy send us now a written statement over your own signature.

WATCH our list of coming exhibitions. The changes recorded in this issue are almost as numerous and radical as last week.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a German, middle aged, single and sober, some experience, want work in greenhouses only. Address F K, Springfield, Ohio.

SITUATION WANTED—By a florist and propagator; first-class landscape gardener; German, single, age 38; 20 years' experience. Address HENRY HELLER, 2219 Larimer St., Denver, Colo.

SITUATION WANTED—By a good German florist in commercial greenhouses; is 28 years of age, have 4 years' experience in this country, and A 1 references. Address W W, care H. F. Halle, 548 W. Madison Street, Chicago.

SITUATION WANTED—Jan. 1st or after, by young man thoroughly experienced in experimental gardening, including knowledge of notes, records, descriptions and classifications. Good references. F. A. WAUGH, 722 W. 8th St., Topeka, Kan.

SITUATION WANTED—By first-class florist of executive ability; German; 20 years' experience in this country. Specialties, cut flowers, Easter stock and bedding plants. Can be engaged by January 1st. Address M F, 723 South Laurel Street, Richmond, Va.

SITUATION WANTED—By a practical gardener as manager of private or public grounds or large commercial plant; thorough knowledge of all branches; a successful hybridizer of orchids; unexcelled in palms, stove plants, roses, cut flowers, grapes, etc.; rockery and landscape gardening; 20 years' experience; unexceptional references; sober; married, with small family; only first-class position desired. Address BOTANIST, Niagara St., Pittsburg, Pa.

WANTED—Florists to send their wholesale price lists to Secretary Maple Hill Floral and Nursery Co., Danville, Ill.

WANTED—For our floral department a young man who has had several years' experience in selling and making up cut flowers. Must come well recommended. Apply by letter, stating age and experience. BROWN, THOMSON & Co., Hartford, Conn.

FOR SALE—Two No. 17 Hitchings boilers in good order. Address W. C. NOLAN, Cincinnati, O.

FOR SALE—Stocked greenhouse, dwelling and land, near Baltimore, Md. Address WM. INGLE, Arbutus, Md.

FOR SALE—Greenhouse business at Austin, Ill., cheap. Reason for selling, poor health. Address JOS. SHAW, Austin, Ill.

FOR SALE—Cheap—Hitchings boiler, No. 17, second hand, in excellent order; 600 feet 4-inch pipe; also two small palm-houses in A 1 order. MAX KRAUSE, New Rochelle, N. Y.

FOR SALE—A first-class retail florist business, palm greenhouse attached and well stocked with fine salable palms. Owner giving good reason for selling. Address W. M. HAYES, care Ellison & Kuehn, 1122 Pine St., St. Louis, Mo.

TO GARDENERS AND FLORISTS.

J. C. GOODING, the well-known rose grower, wishes to retire, and will dispose of his greenhouses, all well arranged, heated by steam, about 16,000 feet of glass, dwelling and barn; lot 160x350; good location, within city limits. Cash, half down. Address **1216 Euclid Ave., Cleveland, O.**

FOR SALE OR LEASE.

Three greenhouses 50x30 feet in a suburb of Boston, containing 8,000 inhabitants; well stocked with adiantums and roses. Am doing a nice home trade, and dispose of all surplus in the Boston market. Poor health is cause of selling. Address

C. H. RICHARDSON, STONEHAM, MASS.

FOR SALE.

A long-established private collection of orchids in good flowering condition. Private party will find a good opportunity of purchasing, as these flowers will be in excellent bloom of Cattleya Trianæ and Percivaliana by the holidays. Also a splendid collection of cypripediums. Address

JOHN H. FLANAGAN, Artist,
Room 25, Morning Journal Office, New York.

REMOVAL.

BURNS & RAYNOR,

Wholesale Florists,

HAVE REMOVED TO

49 West 28th Street, NEW YORK,

where they will have larger store space and better facilities for their rapidly increasing business. Their method of **Shipping Roses** has given them a large out of town trade and for good flowers, especially **Beauties** and **large Mums** the above address is **Recognized Headquarters.**

FLORISTS

please place your orders for

Wild Smilax, Pines and Palms,

for Decorations, early with

A. C. OELSCHIG,
SAVANNAH, GA.

CARNATION BLOOMS.

IN FANCY COLORS LONG STEMS.

I solicit standing orders from florists and others throughout the country, as I make a specialty of shipping them long distances safely by express.

CHAS. T. STARR, Florist, Avondale, Chester Co., Pa.

P. S. A few large field plants of Golden Gate and Wm. F. Dreer still on hand which I will sell at $8.00 per 100.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price list write for same.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.

E. J. HARMS,
Wholesale Dealer in
CUT FLOWERS,
And Florists' Supplies.
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

C. STRAUSS & Co.
GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders
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ELLISON & KUEHN,
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FLORISTS
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.
Mention American Florist.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

WHOLESALE
CUT FLOWERS.
GOOD ROSES FOR SUMMER TRADE.
Write for prices.
J. M. GASSER,
101 Euclid Ave., CLEVELAND, OHIO.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.
Mention American Florist.

F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.
Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.
☞ Wholesale Catalogue on application

Wholesale Markets.

Cut Flowers.

NEW YORK, Nov. 3.

Roses, Gontier	1.00@ 2 00
" Niphetos	1 00@ 3 00
" Perle, Cusin	2 00@ 3 00
" Mermet, Bride	2 00@ 4 00
" La France, Albany	3 00@ 6.00
" Watteville	2 00@ 3.00
" Beauties	15 00@30 00
Lily of the Valley	8.00
Carnations	1.00@ 1 50
Violets	.75@ 1 00
Chrysanthemums, common	2 00@ 3.00
Chrysanthemums, specimens	10 00@25.00
Smilax	10.00@12 00
Adiantums	1.00

BOSTON, Nov. 3.

Roses, Bon Silene	1 00
" Gontiers	3 00
" Niphetos	4.00
" Perles, Sunsets	4.00
" Mermets, Brides	4.00
" Wootton, Waban	4.00
" Beauty	15.00
Carnations, short	.50@ .75
" long	1.50@ 2.00
Valley	5 00
Violets	.75
Pansies	.50
Chrysanthemums, common	2 00
Chrysanthemums, extra	8.00@15 00
Chrysanthemums, prize blooms	25.00@35 00
Smilax	12.00
Adiantums	1 00
Asparagus	50.00

PHILADELPHIA, Nov 3.

Roses, Beauties	12.00@15 00
" La France, Albany	4.00@ 5.00
" Mermets, Brides, Bennetts	4.00@ 5 00
" Pierre Guillots, Dukes	4.00@ 5 00
" Cusins, Watteville, Hoste	3.00@ 4 00
" Perles, Niphetos	2.00@ 3.00
" Gontiers	1.50@ 2 00
Valley	8 00
Carnations, long	1 00
" short	.50@ .75
Bouvardia, heliotrope	1 00
Chrysanthemums, specimen flowers	8.00@20 00
" ordinary	1.00@ 2.00
Pansies	50
Smilax	15.00@20 00
Adiantums	1 00
Violets, single, bunches	3.50@ 5 00

CHICAGO, Nov. 4.

Roses, Am. Beauties	12 50@18 00
" Perle, Niphetos	3.50@ 5 00
" Gontiers, Hostes	3.00@ 4 00
" Mermets, Brides	4.00@ 6.00
" La France, Albany	4.00@ 6 00
" Bennetts, Woottons	4 00@ 6 00
" Bon Silenes	1 50@ 3.00
Carnations, long	1.50@ 2.00
Carnations, short	.75@ 1.00
Smilax	15 00@18 00
Callas	12 50@18.00
Chrysanthemums	1 50@ 3 00
Adiantums	1.00@ 1 25

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL

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LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.
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CUT FLOWERS.
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Write or Telegraph.
SMITH FLORAL CO.
77 7th Street S. Minneapolis, Minn.

EDWARD C. HORAN,
Wholesale Florist
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.

THOS. YOUNG, Jr.
Wholesale Florist
20 West 24th Street, NEW YORK.

CHRYSANTHEMUMS.
Specimen Blooms of the finest Prize varieties, carefully packed.
LILY OF THE VALLEY, and the Choicest ROSES for the fall and winter season.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST
32 West 30th Street,
NEW YORK.
ROSES SHIPPED TO ALL POINTS.
Price List on Application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

JOHN YOUNG,
WHOLESALE FLORIST
53 WEST 30TH STREET,
NEW YORK.

C. E. & S. S. PENNOCK,
WHOLESALE FLORISTS,
38 S. 16th Street, Philadelphia, Pa.

CUT SMILAX
Over ¼ acre solid beds. First-class quality, 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.
JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

JAMES VICK'S SONS of Rochester are out with a circular as follows: "Do not let any reports concerning our temporary embarassment have the slightest influence. We are on a firm footing and are looking to our old friends and customers for their regular trade. We have been in the business all our lives and expect to continue as long as life lasts."

THE EMERSON SEED CO. and Phil Stimmel, of Omaha, have combined their growing departments, and will continue that branch of their business more extensively with an increased list of specialties.

IT IS REPORTED that no provision has been made for any of the creditors of Wm. H. Smith, seedsman, Philadelphia, except his landlord who has purchased his establishment.

VISITED CHICAGO: Mr. Charles Bates, of London; Charles P. Braslan, H. W. Buckbee, John P. Salzer and wife.

THE Nebraska Seed Co. succeeds to the retail business of the Emerson Seed Co. at Omaha.

THE AMERICAN FLORIST CO.

WILL PUBLISH A

CORRECTED EDITION OF THE

DIRECTORY

OF

FLORISTS, NURSERYMEN AND SEEDSMEN

of the United States and Canada

FOR 1892

ABOUT JANUARY 1, NEXT.

We shall cover the whole country by correspondence and compile an entirely new list, which will be as nearly correct up to date as it can possibly be made. But in addition to this we invite corrections from anyone in the trade.

As usual, we shall devote some of the pages to advertisements. Rates given on application. The price of the new book will be $2.00.

SEND IN YOUR ORDERS NOW.

AMERICAN FLORIST CO.

54 LA SALLE ST., CHICAGO.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

THE CHINESE SACRED LILY.

"The Joss Flower" or "Flower of the Gods"

—OF THE CHINESE.—

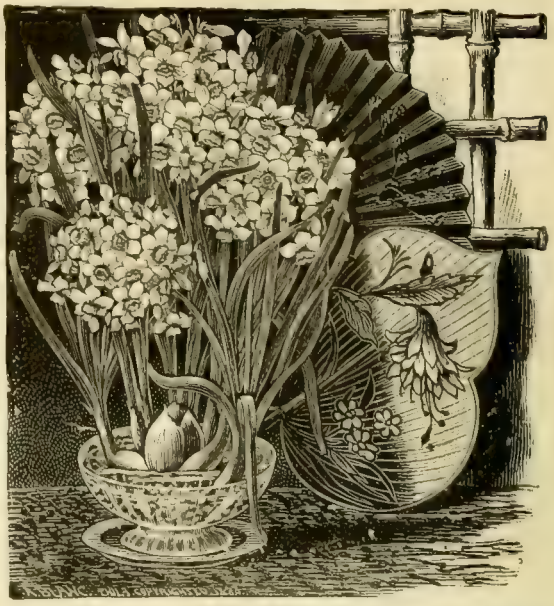
This is the best selling Bulb for the Retail Florist that there is.

We are in receipt of a large importation, direct from China, which has reached us in splendid condition.

PRICE, $9.00 PER 100; 200 FOR $15.00; $75 00 PER 1000.
Retail for 20 cents each.

F. R. Pierson Co.

TARRYTOWN-ON-HUDSON, N. Y.



Choice Plants Cheap

JOHN H. LEY,

ANACOSTIA, WASHINGTON, D. C.,

Will be pleased to receive orders for the following plants, (in excellent condition; low price for cash):

	Per Doz.
Dracæna fragrans, 5-in. fit for 7-in. pots	$10.00
" terminalis, 4-in. fit for 5-in. pots	3.00
Areca lutescens, 6-in. fit for 7-in. pots	15.00
Cocos Weddeliana, 5-in.	5.00
" 4-in., extra strong	4.00
Gardenia florida major, large, full, open ground	4.00
" Fortunei, enormous flowers, " "	6.00
Grevillea robusta, 1 ft., 4-inch pots	2.00
" " 2-inch pots	1.00
Padanus utilis, 2 inch pots	2.00

PALMS IN STORE BOXES.

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During the Winter and Spring months, the first planting in August or September with successional planting until April.

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PAPER BAGS AND ENVELOPES
Special attention given to
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LILY OF THE VALLEY
NOW READY.
The very best German grown forcing pips, in the same prime quality as we furnish to the most reputable cut flower growers of this country.
SINGLE THOUSAND.....$10.50.
THE BOX OF 2,500 PIPS..... 24.50.
10 per cent. allowed for prompt cash. Larger quantities, price by correspondence.

Hyacinths, Tulips, Narcissus, Crocus, Etc.
in cheap mixtures and in the best named sorts; also many other forcing bulbs for florists' use, or bedding out; all at moderate cost. Hyacinths from $20 per 1000 up.

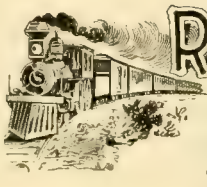
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THE BEST IMPORTED, WARRANTED SOUND OR NO SALE.
Orders for original crates, of 100 lbs. net, received in N. Y. before Nov. 15th are booked at $20 net cash per crate; delivery about December 15th to 20th.

BOUQUET GREEN. Our XXX brand is collected only for us, the quality is branching and spready, and goes twice as far as ordinary green. Orders booked now for December delivery (or can be had earlier); price $8.00 net cash per 100 lbs. ex store; comes in bags of 50 to 75 lbs.

Christmas Greens, like Holly, Wild Smilax, Palm Leaves and Palm Crowns; supplied to order.

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Address Letters to Station E.
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CHINESE NARCISSUS.
BOUQUET GREEN.
L. AURATUM and RUBRUM
Order Holly and Green now.



J·C·VAUGHAN CHICAGO

THE BERLIN LILY OF THE VALLEY PIPS
we sell are of exceptionally rooty growth, thoroughly matured and capable of early forcing, they will arrive during November. We have in transit 100,000 above orders in hand, and we would like to place them in lots of 1,000 each, at $10.00 per 1,000, with one hundred growers who have not heretofore used **OURS,** that they may compare their quality, and know with whom to contract next year, for their full supply.
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Growers of CHINESE SACRED LILY,
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Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

CATALOGUES.
I MAKE 'EM, WITH CUTS AND "KNOW HOW."
J. Horace McFarland,
..... HARRISBURG, PA.

Toronto.

Chrysanthemums are late here and high temperature is being resorted to by some to get the blooms into exhibition condition by the second week in November. On going the rounds yesterday I saw many fine buds that will not have reached perfection until weeks after the show is over. However for all that the prospects are good for the best show this town has yet seen.

W. J. Laing, who has a fine lot of plants, talks of having a little show at his own place during the first week in November, thereby advertising his own business and the big show of the week after.

J. H. Dunlop is building a substantial 35-foot brick chimney for his two steam boilers; the bother with iron was getting monotonous.

Messrs. Manton Bros. will reopen their store on Yonge street next week. Everybody who knows Tom Manton will wish him success.

My nose was directed to a bloom of carnation Miss Annie Wiegand yesterday and the strong spicy odor therefrom brought to memory some old country cottage garden where the old fashioned clove pinks abound.

W. H. Dale of Brampton, near Toronto, whose place was visited by many during the S. A. F. convention, will shortly open a wholesale flower store in the business part of the city.

Mr. R. Mearns of this city has some chrysanthemum plants and blooms which I venture to believe would be appreciated at the Madison Square show. He has some Mrs. Alpheus Hardy which are simply magnificent. "Eternal vigilance" has been Mr. M.'s motto and his stock shows that he has lived up to it. E.

About Smilax.

What is the cause of smilax leaves losing their color, in spots running with the veins? I. A. P.

THE MANAGERS of the chrysanthemum show at Indianapolis have gotten out a programme with a specially engraved cover, containing the premium list and the musical programme, the latter being printed on Japanese paper, each page decorated in color in Japanese style. Its odd character will undoubtedly induce the recipients to preserve it as a souvenir. The prices of admission have been arranged as follows: Days and Saturday evening, 25 cents; other evenings, 50 cents; children, 10 cents. A rate of one fare for the round trip has been secured from all the railroads in Indiana.

ORCHID FIBRE.

I beg to call the attention of orchid growers to a choice lot of orchid fibre, which without doubt is the best and cleanest quality in the market. Send for sample. Address

RALPH GRIFFITH,
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FIELD GROWN CARNATIONS.

L. L. LAMBORN,
Only $5.00 per 100.
A. F. PRINCE, HINCKLEY, ILL.

PANSIES ONLY.

The Greatest Collection ever offered, including all the Latest Novelties. Our Seed is Warranted to be Fresh, Pure and Strictly First-class. Send for new circular and price list to the trade.
ALBERT BENZ, Douglaston, N. Y.

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ROOTED CUTTINGS.

CARNATIONS AND OTHER STOCK.

I will devote some 30,000 feet of glass to Carnations this season, and will give my whole time and attention to the getting out of strictly first-class cuttings.

Of the three best Novelties of last season (GOLDEN GATE, HECTOR and LIZZIE McGOWAN) I have a extra large stock, and in the best of condition.

My Miscellaneous Stock will occupy some 7,000 feet of glass and consist of GERANIUMS, FUCHSIAS, COLEUS, ETC. It will be grown for me by Mr. D. K. Herr, and gotten up in better shape than if I were to grow both these and Carnations myself.

Give me a chance to figure on your orders. List on application. Satisfaction assured.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

PANSIES OF THE BEST STRAINS.

$5 per 1000 by Express; 75 cts. per 100 by Mail. CASH WITH ORDER.

NOTE.—That my Specialties for the coming season are best varieties of CARNATIONS, COLEUS, GERANIUMS. FIRST-CLASS ROOTED CUTTINGS.
Descriptive Trade List ready in November. Send for it.

ALEX. McBRIDE, - Alplaus, N. Y.

PALMS and DECORATIVE PLANTS

ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

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Fresh Palm Seeds.

We have just received from New South Wales, a large consignment of the following Palm Seeds; they are in splendid condition, and some are already germinated. Orders will be filled in strict rotation until stock is exhausted:

	Per 100
ARECA BAUERI	$ 1.50
KENTIA BELMOREANA	2.25
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PTYCHOSPERMA ALEXANDRÆ	1.00
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We have also a large consignment from Central America, the West Indies, and Keys of South Florida.

	Per 100
ACROCOMIA HAVANENSIS	$ 6.00
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COCOS ALPHONSII	1.75
LATANIA BORBONICA	per lb. 50c.
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OREODOXA REGIA	.25
PANDANUS UTILIS	1.00
THRINAX ARGENTEA	.30
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The above prices include packing and postage, seeds ordered by the 1000, to be sent by express, will be subject to 15% discount.

Terms, cash with order.

THE AMERICAN EXOTIC NURSERIES,
R. D. HOYT, Manager,
SEVEN OAKS, FLORIDA.

Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10 00 each. Cycas revoluta, 50c to $1.00 and $15.00 each. Cycas leaves 25c. to 50c. each

DRACÆNA INDIVISA VEITCHII,
DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots, strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

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For Fall Planting.

	Per 100	Per 1000
PANSIES	$1.00	$ 5.00
SMILAX, 2½ inch pots	1.50	12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CARNATIONS, field-grown	6.00	

Address J. G. Burrow,
FISHKILL, N. Y.

PANSIES.

5,000 extra strong fine Seedlings, in good variety, $3.00 per 1000.

JOHN T. HUTCHINSON,
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Well grown Specimen Plants, fit for immediate use.

	Each.
KENTIA, 3 to 3½ ft. high, 6-inch pots, 7 to 8 leaves	$2.50
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do 1½ to 2 ft. high, 4-inch pots, 3 to 4 leaves	1.00
COCOS WED. 2 to 2½ ft. high, 6 to 8 leaves	2.00
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FERNS—Well grown plants in 3 in. pots, for fern dishes, etc., in following varieties:

Pteris Hastata, Sieboldi, Cretica and Alba Lineata, Davallia Stricta and Fijiensis, Lastrea Leptophyllum, Polypodium, Blechnum and Polystichum, assorted, at $10.00 per 100.

E. W. WEIMAR, Mt. Vernon, N. Y.
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NEW AND RARE PLANTS,

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A large collection of Hot House and Greenhouse Plants carefully grown at low rates

ORCHIDS—A very extensive stock. East Indian, Mexican, Central South American, etc.

Hardy Perennials, Roses, Clematis, Paeonias, Phloxes, Japanese Iris etc.

New and Standard fruits; rare and beautiful Trees, Shrubs, Evergreens, etc. Catalogues on application.

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THE FINEST STOCK IN THE WORLD.

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Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

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A fine consignment of this beautiful winter-blooming Cattleya just to hand. Plants have arrived in excellent condition. Also an immense stock of well established Orchids at very low prices. Write for price list.

FREDERICK MAU,
P. O. Box 322. SOUTH ORANGE, N. J.

ROSES.

Very fine plants of the following varieties from 3-inch pots, purchaser's selection, $8 per 100; our selection, $7 per 100.

Andre Schwartz,	Madam de Watteville,
Arch Duke Charles,	Madam Lambard,
Adam,	Marechal Niel,
Adrienne Christophle,	Madam de Vatry,
Bon Silene,	Papa Gontier.
Cels,	Queen's Scarlet,
Charles Rivolli,	Safrano,
Duchess de Brabrant,	Sprunt,
Lucullus,	Souvenir d'un Ami,
Louis Phillippe,	White Daily.

Send for Wholesale price list, now ready.

MICHEL PLANT AND SEED CO.
St. Louis, Mo.

Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Bon Silene. Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000.

TEA ROSES, 30 sorts, from open ground, extra strong, $4.00 per 100.
HERMOSA, strong plants, $6 00 per 100.
HYBRID PERPETUAL, sorts including JACKS, 2 years old, extra strong, $10.00 per 100.

SMILAX. Good strong plants, $2.50 per 100; $20.00 per 1,000.

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The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

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ROSES AND PALMS A SPECIALTY.

DO YOU USE
ROOTED CUTTINGS?

If so, send for my price list of CHRYSANTHS, COLEUS, FUCHSIAS and GERANIUMS.

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CLEMATIS.

Fine, well grown plants in choice assortment. Plenty of Jackmanii. Prices very low, on application.

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ENGLISH IVIES.

Fine, strong plants, 2 to 6 feet long, from 4-in. pots, 20 cents each.

DAVID CLIFFE, Germantown, Philadelphia, Pa.

A MILLION ROSES.

When we say a million we mean just what we say. We are carrying the largest stock of Roses in America to-day. We believe we have the best assortment, and we know there are no better plants offered for sale. Mr. Wm. B. Reed of Chambersburg, Pa., after a visit to our place, said: "I saw on paper that you had a million roses and I called to see the reality, and I must say candidly that you have by far the finest stock of roses I have ever seen, and I have been to many of the leading rose establishments of the country. Your 2½-inch roses at 4 and 5 cts. are much better roses than I have been buying for 4-in. plants from other dealers. You have a right to advertise a million roses, and you deserve success."

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A RED MERMET. **THE NEW FORCING ROSE**

2½-inch pots, well grown plants, 12 to 15 inches high, well branched and matured, with healthy, clean foliage and strong, bright roots.

$1.00 PER DOZEN; $8 00 PER 100; $70.00 PER 1000.

WE HAVE **25,000** OF THIS VALUABLE FORCING ROSE. Send us $1.00 and add 10 cents for postage and we will mail you a dozen "Waban" that you will find are better plants than eastern firms charge you $2.50 per dozen for—a saving to you of $1.50 per dozen, an item you should not overlook.

We also offer from 2½-inch pots, grand plants, at $4.00 per hundred: **40,000 LA FRANCE, 40,000 DUCHESS OF ALBANY,** 20,000 Malmaison, 20,000 Meteor, 20,000 Jardins, 20,000 Mermet, 20,000 Bride, 10,000 Watteville, 25,000 Viscountess Folkestone, 10,000 Snowflake, Mme. Hoste, The Queen, Clotilde Soupert, Mme. Cusin, Cook, Sprunt, Niel, Comtesse de Frigneuse, Princess Sagan, Mme. Etienne, Papa Gontier, Bon Silene, Safrano, Ma Capucine.

G. de Dijon, $6.00; Queen of Bedders, $8 00; Am. Beauty, $8.00; Sunset, $5.00; Sappho, $5.00; Grace Darling, $5; Wootton, $4.50; E. Metz, $5.00; Duke of Connaught, $8; Dr. Grill, $5; Pierre Guillot, $6.

MANATEE, FLORIDA, October 26, 1891.

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DEAR SIRS:—The Roses came in due time and were in perfect order. They are up to your usual good standard (the best we have ever purchased of northern florists), and are now growing vigorously.

Yours truly, REASONER BROS.

We have all the NEW VARIETIES of Roses and a complete line of florists stock of all kinds. We quote Chrysanthemums at $3.00 per hundred; fine plants of all the leading kinds to select from.

HYDRANGEAS RED BRANCHED (new), the best of all Hydrangeas, $6.00 per hundred.

If you fail to get our Trade List, write for it. Nurserymen or Florists using roses in large quantities will do well to write us. You are invited to inspect this stock.

THE GOOD & REESE CO., SPRINGFIELD, OHIO.

Forcing Roses. First-Class.

ALL IN 4-INCH POTS.

American Beauty, Mrs. Jno. Laing, Magna Charta, Paul Neyron, Gen. Washington, Wootton, Capt. Christy, $10.00 per 100; $95.00 per 1000.

Duchess of Albany, Perle, Niphetos, Bride, Sunset, Souv. d'un Ami, Watteville, C. Soupert, Papa Gontier, La France and Luciole, $8.00 per 100; $75.00 per 1000.

We have lots of Roses in 2½-inch pots, **well grown, at 3 cts.** Send us $3.25 for a sample hundred of these, all labeled, **free by mail.**

WILSON BROS., Springfield, Ohio.

10,000 ROSE PLANTS.

Strong healthy stock in fine condition for planting, in 3-in. pots, $8 per 100; in 4-in. $10 per 100.

MERMETS, NIPHETOS, WATTEVILLE, LA FRANCE AND JACQS.

Cut Flowers, Smilax and Adiantum. 25,000 field grown Carnations. Hinze's White, Lamborn, Anna Webb and Portia, $8 per 100. New Scarlet Emily Pierson, $15 per 100. 25,000 Neapolitan Violets, strong clumps, ready in Sept., $8 per 100. **A. N. PIERSON, Cromwell, Conn.**

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants for immediate planting, price $20 00 per hundred.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

ROSES.

H. P., MOSS, AND YELLOW, leading varieties, very strong plants, and a large quantity of Anemone Japonica, white, which are offered at low prices.

GEO. MOULSON & SON,
Union Nurseries, ROCHESTER, N. Y.
Mention American Florist.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

200 Ficus Elastica, from 10 to 16 leaves.
200 Croton Interruptum, 3½-in. pots, good color.
200 Croton Aurea, fine, in 3½ and 4-in. pots.
200 Interruptum, in 2½ and 3-in. pots.
200 Croton Aurea, in 2-inch pots.
Ficus Nitida, all sizes. Also 12 fine specimen trees.
Begonia Rex in variety, cheap.
Begonia, blooming variety, Olbia, Gigantea rosea and many others.
Chrysanthemums in variety.
500 Smilax in 2½-inch pots, fine.
And all the leading plants. Write or send for prices.

LOUIS UNVERZAGT,
SPRINGFIELD, ILL.
Please mention American Florist.

Milwaukee, Wis.

Flowers have been scarce of late, good roses especially so, but for the last few days they have come in in larger quantity and of better quality. The supply of good pink and scarlet carnations is far from satisfactory. Chrysanthemums are in market, and the improvement of this flower over previous years is quite marked. A few growers are selling all they have at just double the prices they received last year. The new rose, Mme. Pierre Guillot, has made its appearance and sells well.

The public seems to be taking considerable interest in our coming flower show, which is now being advertised. It is quite encouraging to any florist to overhear some of the conversations on the subject in the street-cars and on the sidewalk.

Mr. Haessler, who has been quite ill for some time, has recovered, and is now looking quite well and happy among his usual fine lot of chrysanthemums.

Ben Gregory has opened a new flower window on Milwaukee street, next to the postoffice.

Mr. Keeper's new plant is about completed and looks well, though it seems strange to see the long slope to the north. This is a new theory which is being advocated considerably of late—so was the overhead heating some time ago.

C. B. W.

CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "DOROTHY," a seedling of 1888—one of the best.

Catalogue will be ready Dec. 10, '91. Send for it.

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Field-Grown
CARNATIONS
Hinze's White, Garfield, Portia.
Very strong plants, in bud and bloom, $8.00 per hundred.
L. HEINL, Terre Haute, Ind.

HYDRANGEA THOS. HOGG
Strong two year old Plants for Forcing,
$10.00 per 100.
SAMUEL C. MOON
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E. G. HILL & CO.,
Wholesale Florists,
RICHMOND, INDIANA.

FERNS. FERNS.
We offer well established in 2½-inch pots, at
$3.00 PER 100.
Adiantum cuneatum, Anemia phylisus,
Adiantum pubescens, Onychium japonicum,
Pteris serrulata.
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Stock Plants of Chrysanthemums

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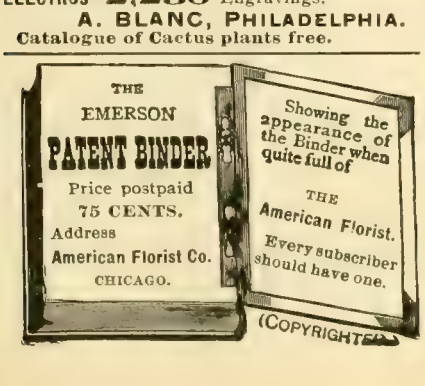
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Catalogue of Cactus plants free.



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BOX'S CHOICE HYBRIDS are best wherever tried. H. C. Merriam, Esq., of Salem, writes to J. R. B. on 29th Sept., 1891: "I wish to express my delight in the Begonias you supplied to a firm of florists here, from which I have added many to my own collection, they are finer than any named varieties I have seen." The Elyria Weekly *Republic* of Ohio, reporting the display of Begonias and Gloxinias (supplied by J. R. B.) at Copes & Son's greenhouses says: "They are enthusiastically admired by all lovers of choice plants." Mrs Parks Foster asserts "that for a brilliant mass of bloom they excel anything of the kind she saw in Europe, where they make a specialty of these favorite flowers. The shades of color are gorgeous and most brilliant."

BEGONIA TUBERS ready for dispatch in November, the cheapest as well as the best on market.
Singles, BOX'S CHOICE HYBRIDS, all colors mixed, 1st size, $4.50 per 100; 2nd size, $4 00 per 100.
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BEGONIA SEED. The quality of Box's seed is far ahead of others; buyers discard other strains. J. R. B. has already booked orders for nearly $500 worth for November delivery. You can have packets of fixed quantities, mixed or in 6 separate colors, of either double or single, at 1, 2, or 5 dollars per packet. With this seed you can "get in" to advantage and raise thousands of tubers next season. An Indiana grower sends this line: "I have raised some grand Begonias from your seed."

BOX'S OTHER SPECIALTIES are GLOXINIAS, splendid mixed colors, chiefly spotted, $6 per 100; seed, $1 per packet. CALADIUMS, named sorts, $4 per 10. Achimenes $4 per 100. **MY ANNOUNCEMENT** on Begonias in the *Horticultural Advertiser* was posted on July 1st to 5 000 American florists—refer to page 5.

N. B.—Orders must all be prepaid and shipping cost covered. If you state your wants and leave selection to me I will give you full value for 5, 10, 20, 100 or more dollars and ship promptly. Catalogues free. Address ***JOHN R. BOX, Begonia Grower, CORYDON, ENGLAND.***

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THE LARGE WHITE FLOWERING VARIETY.

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Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
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4th size	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000)	2.50	"	23.00	"

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We believe that our 1 and 2 year old plants are superior to those a year older offered by others.

	Per 10	Per 100	Per 1000
Hydrangea pan. grand. 1 year, 18 to 24 inches	$.75	$ 6 00	$50.00
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" " 4 to 5 feet	3.00	30.00

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The custom observed annually in Boston of giving away free to all applicants the large quantities of plants which have done duty in the parks and public grounds is in every way worthy of commendation and imitation.

Great numbers of plants on public grounds and private estates in the vicinity of the larger cities are permitted to perish every fall, which might with a little thoughtfulness and a trifling amount of labor on the part of those in charge, be made the means of carrying untold comfort and cheer into many dark spots where pleasure is seldom found and comfort but little known.

It is nothing less than a great and practical charity, of a kind which is likely to be fully as effective as many more pretentious and loudly heralded schemes and it costs almost nothing. We commend it heartily, and hope to see the plan generally adopted wherever is is practicable. W.

Lilium Longiflorum.

How close can I plant Lilium longiflorum in a bed without crowding? If planted nine inches apart, would it weaken them any? M. R.

[If the bulbs are strong—7 to 9 inches or more in circumference—9 inches apart would be too close, but if they were only 5 to 7 inches, 9 inches apart would do. They should be planted 4 or 5 inches below the surface, and the ground above them covered with light litter. R. C.]

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FIR-TREE OIL

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FOR PLANTS.—To make a solution for washing or cleansing purposes—Half-a-Pint of Fir-Tree Oil to ten gallons of water.

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Used with warm water it is quicker in its action than when cold is used.

Soft or rain water is necessary, and Applied in Wood, Tin or Pot Vessels.—Galvanized Iron Vessels must not be used.

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For 1892

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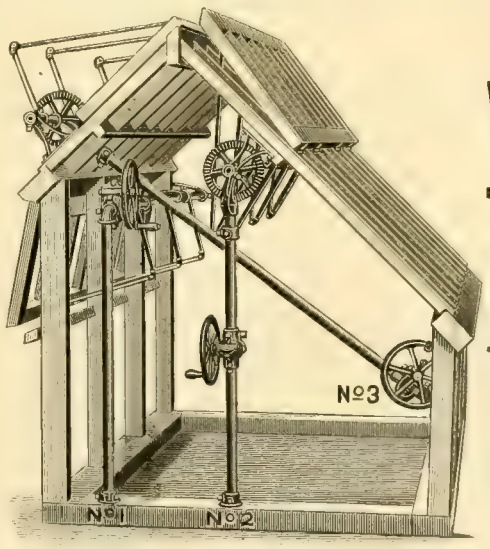
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The rule in such arrangements has frequently been that all the profits, if any, should go to charity and any deficit is left for the florists to take care of. Why should there not be an equal division and equal responsibility?

The time for fairs is at hand. Every florist knows what that means. Merchants in every line of business know something about it, but no other industry on the face of the earth is so mercilessly levied upon in proportion to its ability and resources as is the florist's.

Why should florists do more than the rest of the community to assist public charitable enterprises? They are certainly no less generously inclined than their neighbors and may be as safely left to gauge their benevolence according to their own consciences. W.

Transatlantic Wit.

John S. was "garden carter" for Lord E. Once upon a time he had occasion to drive the head gardener to Manchester. On the return trip they managed to collide with a lamp post, which broke the gig, John's arm and the head gardener's collar bone. John was laid up for a few days. Upon his return he was met by the head gardener, who informed him that his services were no longer required.

"I dinna ken aboot that," says John. "If ye dinna ken when ye have a good man, I ken when I have a good maester."

John stopped there till he died.



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With Patent Ventilated and Perfect Drainage Bottom.



CARD. We beg leave to call your attention to our EXCELSIOR STANDARD POTS. You cannot well afford to be without them, as they are especially adapted for growing Chrysanthemums and all valuable plants.



FIRST CLASS CERTIFICATE OF MERIT AWARDED WHEREVER SHOWN.

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—AND—

JARDINIERES IN GREAT VARIETY.

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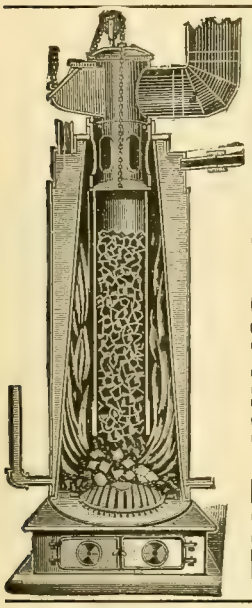
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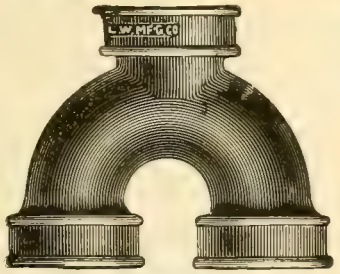
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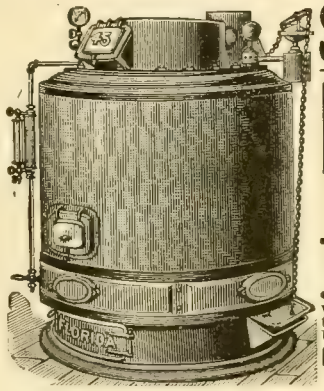
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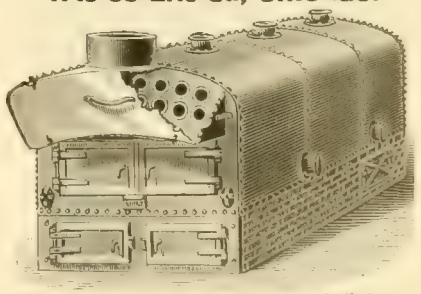
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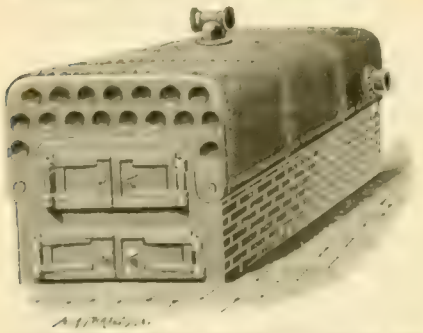
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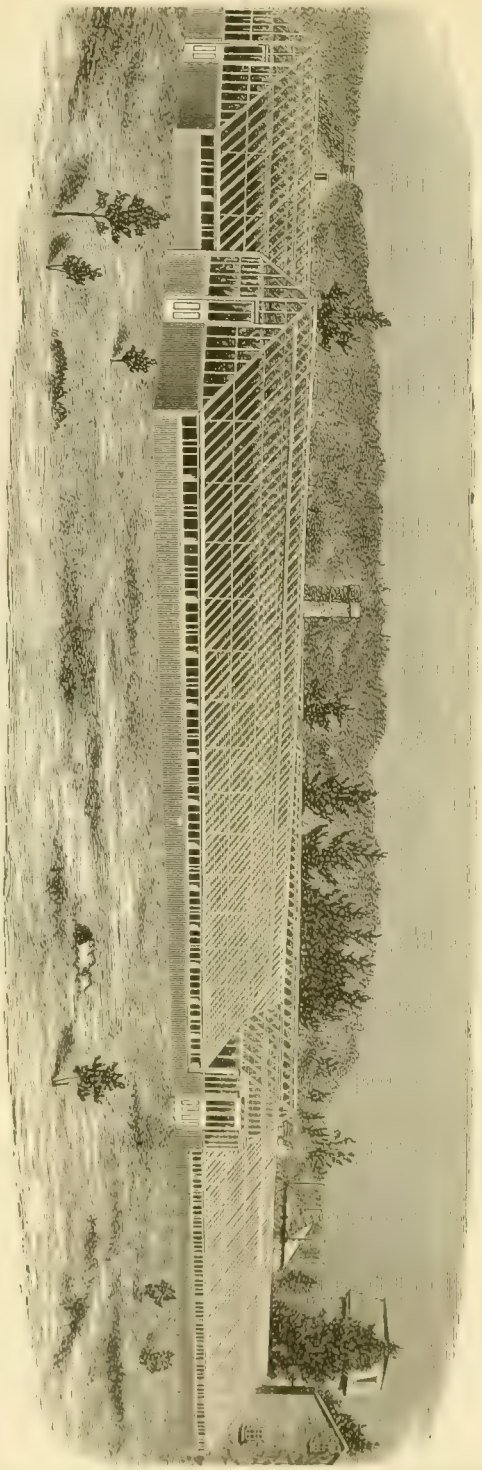
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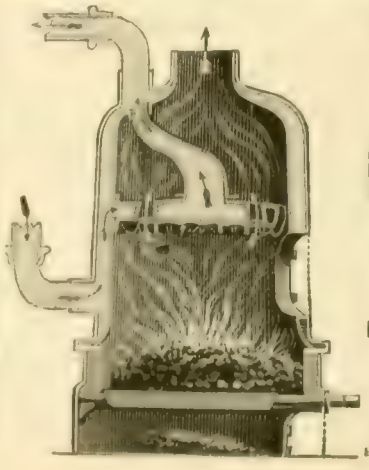


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Vol. VII. CHICAGO AND NEW YORK, NOVEMBER 12, 1891. No. 180

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New York Chrysanthemum Show.

At the appointed hour, 2 p. m. on Monday, Nov. 2, the great Madison Square Garden was thrown open to the public. Most of the exhibits were in order and the judges were already busily occupied in looking over the entries and making their awards. On Sunday and all Sunday night more than a hundred men had worked away unloading vans and placing plants in position, and on Monday morning the number was increased until it was almost a small army. The balcony fronts were draped with thousands of yards of laurel festooning and away up on the sides and along the cornices were suspended draperies of graceful southern smilax. Nearly fifteen hundred Japanese lanterns, each enclosing an electric light, swung in mid air, which when illuminated filled the vast edifice with beautifully soft light and formed a most entrancing picture. No sooner were the gates opened than the people began to pour in and in the evening the crowd was tremendous. The illumination, the music, the moving crowds of people, the grand belts and masses of color and foliage all combined to make the scene a memorable one and indicated that beyond peradventure the great undertaking was now an assured success and that at last the patient workers, who had become so accustomed to disappointment that they had hardly dared to hope, were now to have their reward and that a new era for New York horticulture had at last dawned.

The general plan of arrangement was excellent. In the center of the Garden was an elaborately constructed and decorated pagoda, in which chrysanthemums and other flowers were for sale by a number of Japanese (?) young ladies. This was in charge of Siebrecht & Wadley, who had been the successful bidders for the privilege of selling flowers at the exhibition. Next came the tables arranged in two large circles, which were used for the displays of cut flowers. The remainder of the vast space was devoted to belts and masses of plants and when everything had been arranged there was none too much room left for the accommodation of the great throng of visitors. To attempt to give here a complete history of this, in many respects the grandest floral exhibition ever given on the American continent, is out of the question, as it would fill a book, the show being, on account of the duplication of prizes and new features arranged for each day, really half a dozen complete shows rather than a single one, and with half a dozen successive lists of awards.

CHRYSANTHEMUM PLANTS.

The premiums for chrysanthemum plants were very liberal, aggregating nearly $3,500 and should have brought out a better representation of high class specimen plants in this department than was offered. Pitcher & Manda's trained plants were good; outside of these there were but few large specimens worthy of notice and some indeed were so inferior as to be discreditable to the reckless exhibitors whose unaccountably bad judgment led them to attach their names to such stuff. But the smaller plants, those grown to a single stem and bloom especially, were very fine and the various groups, where gorgeous display was looked for rather than shapely trained individual specimens, were also most effective.

The best plant in the hall was Pitcher & Manda's single flowered "Daisy." Many of the trained standards in their exhibits were also very fine and on specimen plants and standards clear through the list they took nearly all the first prizes. Wherever shown their new variety, Mrs. E. D. Adams, took the lead as a superb variety and attracted more attention probably than any other one variety shown among the plants.

In the classes requiring plants grown to single stem and flower T. H. Spaulding was in the lead with a splendid collection, taking most of the first premiums.

In the groups of plants arranged for effect Theo. Roehrs was in the lead in most classes, although Siebrecht & Wadley and Pitcher & Manda showed some good groups also. Thos. Griffin, gardener to Mr. A. Ladenburg, took first premium in the leading class for group of plants covering not less than 250 feet. In class 14 calling for a group of chrysanthemums arranged for effect, palms and other foliage plants being admissable, Mr. W. B. Cutting's entry was a superb group most admirably arranged, but from the fact that the foliage plants were the most prominent components of the group, the chrysanthemums being in the minority, it was ruled out by the committee, but suitable recognition was subsequently made in the shape of a special premium.

MISCELLANEOUS PLANTS.

One of the grandest plants in the hall was a specimen of Chamærops humilis stricta about eight feet in height from Siebrecht & Wadley, which took first prize as best specimen palm. Both in the groups and among the isolated specimens were to be seen many noble examples o

rare and valuable foliage plants, contributed by Siebrecht & Wadley, Pitcher & Manda and W. B. Cutting. Mr. Cutting took first prize for specimen cycas. The premiums for groups and collections in this section were generous. They were won by Bonn & Dressel, Pitcher & Manda, Siebrecht & Wadley, W. B. Cutting and Julius Roehrs, principally. The arrangement of Pitcher & Manda's group of ornamental foliage and flowering plants was specially worthy of note, in fact all the entries in his class were very creditable.

In the orchid classes Pitcher & Manda were first on twelve distinct plants, six ditto and on twelve cypripediums. Siebrecht & Wadley were first on three distinct plants and also won the silver cup offered by Pitcher & Manda for the best collection of cypripediums in bloom.

One of the most attractive features was a grand group of Mme. Crozy and Star of '91 cannas in flower from Jas. Dean, which was awarded the Morgan cup. Seen from any direction this was the most brilliant spot in the whole exhibition. The group was edged with a border of Jerusalem Cherry, which made an admirable finish. H. A. Dreer contributed a fine collection of specimen ferns.

CUT FLOWERS.

The display of cut flowers was expected to be grand, but it surpassed the most sanguine expectations. The specimen blooms were displayed, except when vases were stipulated, on green painted flats, as has generally been the custom.

Mr. E. A. Wood came down from Boston with an exhibit in the leading class, fifty varieties, one flower of each and staged in the Boston style, that is, in vases with stem and foliage showing. He captured first prize, second going to Dailledouze Bros. and third to Ernst Asmus. "That's the way to show them, anyhow," remarked Mr. Dailledouze, and he is correct. Foliage and stem are as necessary to a chrysanthemum as to a rose and the flat board business ought to go. Messrs. Dailledouze Bros. were first on 24 and on 12 distinct varieties; among their best blooms were Vivian Morrell, Excellent, Ivory, The Bride and Domination.

Ernst Asmus was first on 24 Japanese, one vase of pink and one vase of crimson. The competition between Messrs. Asmus, and Dailledouze on the vase of pink flowers was very close, the former staging Mermaid and the latter Mrs. J. N. Girard and the Mermaid won. Mr. Asmus' winning flower in the crimson class was Edw. Molineaux. Among the finest of Mr. Asmus' blooms in the various classes were Mrs. Irving Clark, Miss M. Wanamaker, Elmer D. Smith, Jessica, Mary Wheeler, Roballion and H. E. Widener.

Pitcher & Manda won quite a number of first premiums, including those for 12 Japanese, six Japanese and the single flowering classes. Among their most notable blooms were Mrs. E. D. Adams, Mrs. Grace Hill, Ada McVickar, Hicks Arnold, Mrs. W. S. Kimball, Harry May, Mary Wheeler, Lincoln and Louis Boehmer. As this list indicates Pitcher & Manda made a bold and successful strike with their own varieties, not depending upon established favorites for recognition. Most of the varieties above enumerated have been described elsewhere. Many of them are superb. Hicks Arnold under the electric light glows as no other chrysanthemum does.

Among the successful prize winners in various classes was Wm. Tricker, who staged fine specimens of John Salter, Eve, Mrs. Weston and other good ones; Julius Roehrs, whose Frank Thomson, Robt. Bottomly and Shasta were superb; and J. Condon.

The display in vases of cut blooms with stems not less than 18 inches was the most gorgeous feature of the show. That their superiority over the flat displayed blooms was understood by the public was very evident from the crowds that surrounded the tables on which they were displayed. The tables were unfortunately too high to show the flowers in this manner to best advantage. The vases provided for their reception were of the most beautiful and costly ware, and much was added to the impressiveness of the exhibit by this feature. Some idea of the magnitude of the show will be gained by considering that nearly 3,000 of these valuable vases were used for the reception of chrysanthemums, roses and carnations, in addition to the quantities of glassware used. Julius Roehrs, Peter Henderson & Co., Ernst Asmus, George B. Gill, J. N. May, Charles Bird, and Jas. Bryden were all prominent exhibitors in this section. In the class calling for one vase of 12 flowers, white, there were eight close competitors. Peter Henderson won with Mrs. Alpheus Hardy, undoubtedly the finest 12 blooms of this variety ever shown in America. Robert Bottomly, from the same exhibitor, was also grand.

J. N. May showed among other fine specimens, Miss Wanamaker in splendid form, and H. E. Widener, the latter taking first prize for vase of yellow. Julius Roehrs received first for 12 vases of six flowers each. His Ada Spaulding in this entry was superb. On the fourth day of the show Mr. J. H. Taylor appeared with a grand lot of long stemmed blooms which were equal to the best. His plants being later in blooming, he was not ready to compete at an earlier date. As most of the premiums in the cut flower classes were duplicated on the fourth day, late comers fared as well as the earlier exhibitors. The group from Jas. Bryden was one of the most admired exhibits in the hall. A certificate was awarded to Geo. B. Gill for a sport from St. Patrick named Mrs. Dudley C. Hall.

SEEDLINGS.

Here was the cream of the whole exhibition. Here was exemplified the highest achievement of American floriculture. It was asserted by those in a position to know that such a display of chrysanthemum seedlings the world has never before seen. There were full 600 of them, many being decided advances on any variety heretofore disseminated. The following is a list of the most promising varieties, with the awards received by them: Exhibited by E. G. Hill & Co., Richmond, Ind.: Edw. Hatch, pink, the Whitney cup and a certificate of merit; O. P. Bassett, a fine commercial variety, form of Cullingfordii, certificate; C. B. Whitnall, crimson maroon, certificate; Maud Dean, La France color, certificate; Mrs. Robert Craig, pure white, globular; Mrs. Anthony J. Drexel, deep crimson; Mrs. Louis C. Madeira, splendid golden sphere; Mrs. Maria Simpson, yellow, an improved Coronet; Judge Hoitt, a fine incurved, silvery pink.

Exhibited by Hugh Graham, Philadelphia, Pa.: Roselyn, shade of syringa, certificate; Mrs. Wm. F. Dreer, great improvement on Source d'Or, certificate; Roy, incurved pink, certificate; Marguerite Graham, cream white, form of H. Cannell, certificate; Mrs. Dr. Williams, red and gold; J. G. Eisele, orange; Mrs. Robert C. Ogden, deep pink reflexed.

Exhibited by T. H. Spaulding, Orange, N. J.: Col. W. B. Smith, light orange, the Bird cup; H. F. Spaulding, old gold, the Ladenburg cup and a certificate; E. Hitzeroth, yellow, the Winslow cup and a certificate; American Flag, an improved Marvel; Chicago, striped carmine and white; Christopher Columbus, Japanese incurved; Mrs. J. M. Schley, shell pink; Mrs. J. W. Manning, form of Girard, but darker color; Miss Lilian Russell, silvery pink; Ada H. Leroy, deep pink; Mrs. H. F. Spaulding, large white; Dr. Wm. Pierson, Columbian and J. Henry French, varying shades of red. Mr. Spaulding also took the Astor cup for the best collection of seedlings.

Exhibited by Pitcher & Manda, Short Hills, N. J.: Harry May, orange, the Lanier cup and a certificate; Mrs. W. S. Kimball, white suffused with pink, certificate; Hicks Arnold, orange, certificate; Mrs. E. D. Adams, white, certificate; Ada McVickar, fluffy white; Miss M. Colgate, white; the improved Mrs. Alpheus Hardy and a large number of other seedlings.

Exhibited by Thomas Griffin, gardener to Mr. A. Ladenburg: Emily Ladenburg, deep Jacqueminot color, the Oelrichs cup and a certificate; Oasis, yellow, certificate.

Exhibited by James Bryden, gardener to Miss Simpkins, Yarmouthport, Mass.: Miss Mabel Simpkins, large globular white, the Clews cup; Bryden, Jr., fine yellow, certificate; Snowflake, pure white.

Exhibited by J. Wheeler, Brookline, Mass.: Jos. H. White, pure white, form of Elsie, certificate.

By George B. Winslade: Charles J. Osborne, bronzy yellow, certificate, besides a good assortment of other seedlings.

By Kersham Clegg: Clegg 22, brighter than Geo. W. Childs, certificate.

By Aug. Bennett: Miss Grace Brown, pleasing yellow, certificate.

By C. D. Kingman, Middleboro, Mass.: Namasket, fine white.

By H. A. Gane, West Newton, Mass.: A fine unnamed white.

By J. Forsterman, Newtown, L. I.: A collection of this year's seedlings, numbering about 80, some of which will be heard from in the future.

Regarding the exhibition of seedlings, it appeared to be the unanimous opinion of everyone that new varieties should not be exhibited in competition until their second year, excepting in a special class by themselves.

ROSES.

The leading rose growers for the New York market were out in force, and the display of roses was as might be expected—superb. J. H. Taylor was on hand with large collections of Mermet, Bride, Cusin, Hoste, and Gontier. The Mills cup for 100 Brides was won by Mr. Taylor. L. M. Noe, F. R. Pierson and S. C. Nash staged magnificent American Beauties and other varieties. Ernst Asmus showed vases of superb Meteors, and from John N. May and the John Henderson Co. came fine La France, Mme. Pierre Guillot, Waban, Bon Silene, etc.

The rose premiums were competed for on Tuesday, and the premiums were duplicated throughout on Thursday. For best collection of roses Ernst Asmus was first. The Taylor Cup, donated by J. H. Taylor, for vase of Mme. Cusin roses, 100 blooms, was also awarded to Ernst Asmus. For the best new rose of American origin, Mr. John Burton received the Eyerman Prize, a silver cup. The rose thus honored is a sport from American Beauty, lighter in color than that variety.

CARNATIONS.

The display of carnations was large and comprised many new and promising varieties. The Lanier Cup was awarded to E. G. Hill & Co. for the best 100 new pink carnations, variety Edna Craig. A special certificate of merit was awarded to J. H. Taylor for May Queen. Edw. Swayne and L. Wight both showed promising seedlings. Ida McKinley, a pink variety from Messmore & Turner, of Minerva, O., was much admired. E. B. Jennings received a certificate for seedling carnation Orange Blossom. Prizes were also won by Chas. T. Starr, H. E. Chitty, J. H. Taylor, Geo. Smith and John Tharpe.

On Saturday Ernst Asmus won the Limburger Cup for the best collection of cut chrysanthemums staged for effect, and the Benedict cup for best collection of roses staged for effect. There was no competition in either class. Hill & Co. were awarded a certificate of merit for seedling chrysanthemum Mrs. Robert Craig, a very beautiful white. Dailledouze Bros. were first for 100 mignonette and C. F. Dihm for 100 violets.

On Friday the following special premiums were awarded: The Sloan cup, to H. E. Chitty for the best collection of carnations; The Ladenburg cup, to Edward Swayne for the best pink carnation of recent introduction, variety Aurora; the J. Crosby Brown cup, to E. G. Hill & Co. for the best seedling carnation never before exhibited; to John McGowan, for collection of carnations, a certificate of merit; to Fred Dorner, for collection of seedlings a certificate of merit; also repetitions of Tuesday's regular prizes to Charles T. Starr, H. E. Chitty, George Smith, J. H. Taylor and others.

MISCELLANEOUS CLASSES.

For the dinner decoration premiums there were three entries, Brower & Son, Siebrecht & Wadley, and Charles A. Dard, to whom were awarded first, second and third respectively.

The table by Messrs. Brower & Son, which received first award, was very beautiful. The center piece was a mound of long stemmed Ada Spaulding chrysanthemums, the corsages and boutonnieres being of the same. Every bloom was a perfect specimen. The ribbons on the corsages, the little shades on the lights and the decorations on the ware were all in a corresponding shade of pink. The glassware on the table is said to have cost $1,200.

Messrs. Siebrecht & Wadley, to whom were awarded second prize, showed a table decorated in gold. The center piece was of H. E. Widener and Gloriosum chrysanthemums, with favors, candles, and shades of the same color. The effect was very luminous and beautiful.

Mr. Charles A. Dard's table was oval shaped, with a sunken center in which was arranged chrysanthemums in varied colors with rich foliage plants.

For vase of chrysanthemums and foliage on Wednesday, George Stumpp was first, Siebrecht & Wadley second, and C. F. Dihm third. On lily of the valley the only competitors were Ernst Asmus and Julius Roehrs and Asmus came out on top.

The Cutting prize for basket of orchids was awarded to Siebrecht & Wadley, who also won first prize for mantel decoration.

The gold medal offered by Mr. Jas. Dean for the best working model of a greenhouse for amateur use was awarded to Thomas W. Weathered & Sons. This being the first gold medal ever awarded for this purpose in America, Charlie Weathered was in his happiest vein, and received the congratulations of friends with becoming dignity.

Special certificates of merit were awarded to the Perfect Drainage Bench Tile, and to the Wight Flower Shipping Case, both exhibits by W. P. Wight; to Weeber & Don for exhibit of horticultural requisites, and to H. A. Bunyard for the Improved Cut Flower Exhibitor.

The potting contest on Wednesday afternoon proved to be quite an attraction. There were four contestants. The judges were John Smith, George E. Bennett, and J. D. Eisele. Alex. McPherson was time-keeper. The committee reported as follows:

"In the time allotted (1 hour), George Martin potted 1,277; Wm. Liston, 1,010; Wm. Enright, 1,153, and Dennis Burns 1,238. We find Martin's potting far superior to either of the other contestants. We consider Enright's potting superior to Burns', although a little less in number, and so far would place the prizes as follows: First, Geo. Martin; second, Wm. Enright; third, Dennis Burns."

In the violet contest Minnie Kuhn made a nice bunch in 2 minutes and 53 seconds, and was awarded first.

The attendance throughout the continuance of the exhibition was very large, and there is no doubt that when the final figures are made up the New York Florists' Club will find its treasury enriched by a substantial sum. Mr. Plumb proved to be the right man in the right place and as manager of the exhibition he has made for himself a record which cannot fail to be of great value to him in the future. Mr. James Dean and Mr. J. N. May both worked incessantly with that devotion which is characteristic of these gentlemen when they undertake anything. Mr. May superintended the judging and reports, and managed to accomplish the herculean task with satisfaction to all concerned. Complaints regarding the awards were unusually few, and the judges selected appear to have satisfied everybody.

The Madison Square Garden Co. fulfilled their promises to the Florists' Club to the letter and in all their dealings acted in a most generous fashion. Mr. A. Ladenburg especially, soon won his way into the affections of the boys, and the experience of the club and garden management as partners has been so satisfactory to both that they will without doubt work together again often in the future.

That every detail in such a big undertaking should have been perfect could not have been expected. One most annoying feature to visitors especially should and doubtless will be avoided on future occasions. The employes of the Garden are obliged to obey rules to the letter. In consequence of this many exhibitors from a distance as well as gentlemen who had been asked to come a long way to officiate at the exhibition were in many cases compelled to stand a long time outside the door, unable to obtain admittance until some special individual could be found whose duty or privilege it was to attend to them. Again a distinction should be made between the ordinary public and the florists who come from out of town to attend such occasions. From the latter an admission fee should never be extorted, much less a repeated admission fee every time they leave and return to the hall.

Charlie Weathered suggests as a remedy for such unpleasant occurrences, that all horticultural societies, clubs and other organizations in the country unite in adopting a universal badge, non-transferable, which shall be issued to all members of such organizations and admitting to all exhibitions wherever located. Something of the kind ought to be done.

The number of notable visitors at the exhibition was very large, too numerous to name them all. Prominent men in the trade were present from all the large cities, from Chicago on the west to Boston on the east. The one man of all who should have been there, who would have been there if he could, whom everybody was asking for and whose absence was deeply regretted was John Thorpe, who on account of sickness was unable to attend. But his friends were there, and their name was legion, and they all wish him a speedy recovery.

London, Ont.

The chrysanthemum show of the London Florists' and Gardeners' Society was held in the city hall November 3–7.

Some very fine exhibits were made, particularly the cut blooms of Messrs. W. S. and C. M. Greenway, some of which measured as follows: Kioto, $8\frac{1}{2}$ in.; Rob't Crawford, $10\frac{3}{4}$ in.; L. Boehmer, 7 in.; Mrs. F. Thompson, 7 in.; Gloriosum, 8 in.; Mrs. I. Clark, 8 in.; Henderson's Queen, $5\frac{3}{4}$ in.; H. E. Widener, 6 in.; Mrs. Langtry, $7\frac{1}{2}$ in.; Domination $5\frac{1}{2}$ in.; G. F. Moseman, 6 in.; Mme. C. Audiguier, 9 in.

In the front of the hall were the amateur exhibits; in the north end, the table decorations and an exhibit of bulbs, etc. by J. S. Pearce & Co. The cut flowers occupied the council chamber.

Taken on the whole the exhibition was fully 100 per cent in advance of that of last year.

The attendance, however, was very limited on the first two days, and the committee then decided to continue the exhibition until Saturday evening, at a reduced rate of admission, with the hope of bringing up the receipts.

E. G. Brown, of Hamilton, Ont, exhibited some immense flowers. The exhibit of J. C. Vaughan of new varieties drew the attention of all.

After the prizes had been awarded the plants were arranged for effect. An immense bank was made in the center of the hall, covering over 1000 square feet and was composed entirely of mums. On the east side of the hall were arranged the greenhouse plants. The following is a list of prize winners:

For 25 chrysanthemums, 1st, F. Dicks; 2d, J. Gammage & Sons; 3d, G. W. Rennie; 12 chrysanthemums, 1st, F. Dicks; 2d, J. Gammage & Sons; 3d, G. W. Rennie; for 6 varieties, 1st, F. Dicks; 2d, G. W. Rennie; 3d, J. Gammage & Sons; for specimens, 1st, G. W. Rennie; 2d, F. Dicks.

Those receiving premiums for 12 varieties of carnations were: 1st, J. Gammage & Sons; 2d, Thos. Wells; for calla lilies, 1st, Thos. Wells; 2d, G. W. Rennie; for 12 primulas, 1st, Thos. Wells; 2d, F. Dicks; for greenhouse plants, 12 varieties, 1st, Thos. Wells; 2d, W. S. & C. M. Greenway; for ferns, 1st, Thos. Wells; 2d, W. S. & C. M. Greenway.

Amateurs' class: 6 mums, 1 specimen, 1st, Mrs. Insell; 2d, J. Cook.

Cut flowers: 25 mums, 1st, W. S. & C. M. Greenway; 2d, E. G. Brown; 3d, Holznagle & Noel; 12 mums, 1st, E. G. Brown; 2d, W. S. & C. M. Greenway; 3d, Holznagel & Noel.

Vase mums: 1st, W. S. & C. M. Greenway; 2d, J. Dilloway.

Carnations; 50 blooms, 1st, J. Gammage & Sons; 2d, J. Dilloway; 3d, F. Dicks.

Twenty-five roses: 1st, J. Dilloway; 2d,

W. S. & C. M. Greenway; 3d, F. Dicks.

Floral table decorations: 1st, J. Dilloway; 2d, J. Gammage & Sons.

Basket mums: 1st, G. W. Rennie; 2d, J. Gammage & Sons.

Funeral designs: 1st, J. Gammage & Sons; 2d, S. S. Wortman.

Bridal bouquet: 1st, S. S. Wortman; 2d, J. Gammage & Sons.

Wreath, all mums: 1st, J. Dilloway; 2d, G. W. Rennie; 3d, S. S. Wortman.

Messrs. Holznagle & Noel, of Detroit, made an exhibit of roses and carnations, and 25, 1, and 12 mums.

Caldwell, the woodsman, was also on hand with his evergreens.

James Webster, of Hamilton, and Geo. Boucher, of St. Thomas, acted as judges, to the satisfaction of all.

Wooster, O.

The chrysanthemum show and floral exhibition, given by the Wooster Floral Club, Nov. 4 to 6, has been a success so far as display is concerned.

The club was organized less than a year ago and is composed of the commercial florists and amateurs of this city. The florists have given encouragement to the organization, believing it would stimulate a love for plants and flowers, and thus be indirectly beneficial to them. The show which has just closed has demonstrated the fact that they were not mistaken. Ten plants of the "Queen of Autumn" will be grown next year to where one was grown this year.

The displays made by amateurs were all good, and worthy of a more extended notice than we can give at this time.

We wish to speak now, more particularly, of cut blooms of new carnations and chrysanthemums which were sent in for exhibition only. The first we noticed was a splendid collection of twenty-five chrysanthemum blooms kindly exhibited by Mr. John Thorpe, which comprized the cream of last year, seedlings and many of the older varieties. This display received very favorable comment from the throng of visitors, and received the following favorable report from the committee on exhibits: The blooms of G. W. Childs, J. P. Freeland, Coronet, Rohallion, Ada Spaulding, Ernst Asmus, Mrs. Weston, Kioto, Mrs. E. W. Wood, Target, and Jessica, are splendid specimens, and we recommend them as desirable varieties for all purposes.

The exhibit of J. C. Vaughan was a splendid collection of chrysanthemum blooms of new Japanese varieties and older sorts, and well deserved the flattering report of the committee which is as follows: The collection exhibited by J. C. Vaughan of Chicago reflects great credit upon the grower and shows good judgment in his selection of desirable varieties. Those varieties we consider worthy of special mention are No. 1, 4, 10 and 12, J. T. Price, Waban, Mrs. Senator Hearst, Mermaid, E. Audiguier, L. B. Bird, Clara James, J. C. Vaughan and J. T. Emlen.

Mr. Edward Swayne, of Kennett Square, Pa., exhibited a few specimen blooms of his new carnation Aurora, which gives great promise of becoming a leading variety among the red; also Thos. Cartledge, a new variety which is a close rival of Grace Wilder. We consider it superior to Wilder in many respects.

The display of chrysanthemum plants made by L. R. Kramer, F. H. DeWitt and W. A. Porter were all good and deserve special mention, also the display of foliage and decorative plants shown by G. F. Kingsley and W. A. Porter.

Mr. DeWitt exhibited four seedlings of '91 which are very fine and will no doubt occupy a prominent position in the family of "mums," especially his new named seedling Highland Mary. It is a perfect flower of the Chinese type and is a beautiful shade of pink.

The twelve seedlings shown by W. A. Porter were up to the standard in color and size. Plants well grown and vigorous. Part of them are very distinct and will no doubt be quite an acquisition.

P.



American Carnation Society.

The second meeting of this young organization took place at the St. James Hotel, New York city, on November 4. The meeting was called to order at 2 p. m., President Edwin Lonsdale occupying the chair and Mr. C. J. Pennock, secretary. There were about thirty members present, including many of the most widely known carnation fanciers and growers in the country.

Considerable time was spent in getting the new constitution and by-laws into shape. The annual meetings will take place on the third Tuesday in February and the officers' terms will begin on April 1. An exhibition of carnation plants and flowers will be held at the time and place of each annual meeting. The annual fee was fixed at two dollars. The objects and aims of the society as stated in the constitution are as follows:

Section 1. To increase the general interest in the cultivation and use of the carnation.

Sec. 2. To improve the standard of excellence in the flower.

Sec. 3. To improve the methods of cultivation and methods of placing it upon the market.

Sec. 4. To increase its use as a decorative flower.

Sec. 5. To improve the methods of growing plants and rooted cuttings and marketing the same.

Sec. 6. To infuse into the grower a more thorough understanding of the general rules of successful business management.

Sec. 7. To properly supervise nomenclature.

Sec. 8. To stimulate the growing and introduction of improved seedlings and crosses, by a system of exhibitions and awarding valuable prizes.

The constitution and by-laws were finally completed and adopted and a vote of thanks was tendered to the committee, Messrs. C. W. Ward, Jas. Dean and John Young.

After the reading by the secretary of letters from Benj. Grey, Wm. Scott, Benj. Durfee, R. J. Mendenhall and Jas. G. Hancock, President Lonsdale made a short address, in which after alluding to the objects of the organization he gave a brief history of the carnation up to the present time. He said that the first of the section of ever-blooming carnations is understood to have originated with the late Jean Sisley about fifty years ago. He alluded to Smith and Allegatiere as also deserving of credit for their attainments in carnation culture, and quoted some statistics in connection with the origin of such varieties as Pres. DeGraw, Peter Henderson and Hinze's White. Although the foundation of our ever-blooming carnation was laid in France, yet as a general rule European varieties lose their vitality quickly in this country and rarely last long. Referring to Fred Dorner's theory, in which he claims that the average life of the carnation is only 5 or 6 years, Mr. Lonsdale said that in his opinion the length of life of a variety was largely a question of treatment, soil, climate, etc. He quoted John Thorpe's description of the future ideal carnation, viz: flower not less than 4 inches across, petals of good substance and regularly disposed, good perfume, length of calyx not less than half the diameter of flower, strong enough not to burst, stem not less than eighteen inches long, leaves eight inches long and one half inch wide, such flowers as would sell for one dollar apiece and would make the carnation within six years the leading flower in the market.

Mr. Fred Dorner and Mr. L. Wight were both referred to as having done much to advance the standard of the carnation in the market. In the opinion of the speaker it is desirable to develop the length and breadth of the petals rather than their number. He advised discarding all varieties whose petals inclined to incurve, also to avoid encouraging the reflexed sorts. The outside petals should be horizontal, the inner ones upright. The cultivation of the carnation as a pot plant is sadly neglected and should receive more attention. Cuttings put in now would make good plants by next spring.

He advocated the selection of varieties for summer blooming. It might take a few years of careful work to secure first rate varieties for this purpose, as those that are best for winter may not be the best for summer planting. In conclusion Mr. Lonsdale asserted that it was not the wish of the carnation society to antagonize or interfere in any way with the work or prosperity of other existing societies, their intention being rather to go hand in hand with such bodies, their aims and purposes being all in the same direction, and asserted that in proportion to the improvements in the carnation will be the public appreciation of it, and with better grown plants and superior varieties we may reasonably expect the carnation to soon rank with the orchid and the rose.

Mr. Edw. Swayne said that he knew of but one satisfactory summer bloomer, that being Portia.

Mr. W. J. Palmer claimed that Silver Spray would give twice as many flowers as Portia, and that Grace Wilder succeeded outdoors with him as well as any other variety.

Mr. R. T. Lombard said that he had tried summer blooming for a number of years and had made a success of but two varieties, Mrs. Fisher and Hector. He propagates in October or November, puts in flats till March 1 and plants out in April. He had gathered as high as 10,000 blooms per week from 3,000 plants.

Mr. J. L. Dillon thought the best plan was to take good care of the carnations indoors in summer. No fading, stain or dirt need then be feared.

Mr. Jas. Dean coincided with the last speaker and said that if given plenty of water inside they would come all right.

Mr. Lombard said that he could get stronger stems outside than in the houses.

Mr. Albert M. Herr, of Lancaster, Pa., then presented a paper on "Soils," which was read by the secretary.

SOILS.

This next to disease is the most complex subject the carnation grower has to deal with and it has almost as many sides to it as there are growers. I propose in a short paper to give my side and experience and hope it will bring forth in

discussion some points that will help to lighten us on our road to success.

First my soil is a sandy loam with sand subsoil; it naturally has very free drainage and does not become hardened like clayey soils when dry. To this soil for field culture I add about as much manure as is generally used for vegetables and plant my carnations on ridges to still further assist the drainage. They are planted far enough apart to work with the horse and harrow, and after every rain, no matter if it is twice in one week, they are well harrowed. Whenever weeds begin to show they are well hoed in the row. This may seem a trivial matter to write about, but it is a point that is often overlooked that to have real healthy and vigorous field grown plants they must have an abundance of room and the soil kept well stirred, not merely scratched with a hoe or hand harrow, but cultivated to allow the sun and air to act on the roots of the plant. With a first class field plant half the battle is fought.

In the house I plant almost exclusively on solid beds and am now using the same soil the third season without either change or addition, excepting some well rotted stable manure each summer. The plants not only do not show any signs of deterioration, but are looking, if anything, better than ever before. We keep the soil constantly stirred and carefully watch that it does not get overwatered (while the plants are growing); soil that is kept constantly wet is unfit for plants the whole of one season, let alone two.

After the plants are pulled out in the spring the beds are allowed to become thoroughly dry. Sometime in July they are given a coat of well rotted manure and dug round thoroughly, turning the soil and mixing the manure well in; along in August they are well turned again. This gives the sun a chance to work on the soil and has a similar effect and it is an open question with me whether it is not a better effect than the mechanical and sweetening action of frost.

My bench soil is treated in the same manner excepting that it is renewed every second season, not because I found it a necessity, but because I have been too timid to venture for a longer period. I have an experimental bench started now on which was planted last season L. L. Lamborn, this year it is planted to Golden Gate, next year it will be planted to either Daybreak or Tidal Wave and the next to either Christmas or Wilder, and so on with change of varieties and color each season, but no change of soil, until I find that it shows some signs of being played out. If this is successful it will mean the saving of a very unpleasant labor and save quite an item in the expense account.

There are some soils that would not give the same results as mine. With a stiff clayey soil I would hesitate to experiment on a large scale and would watch the watering very carefully, keeping the soil constantly stirred. In soil of this character manures should be used that would help to lighten it, such as well rotted vegetable matter, wood ashes, lime or pure horse manure. A good manure, where it can be procured, for clay soils is the sweepings of blacksmith shops, using it with care, as it contains a quantity of ammonia.

In very sandy soil use either pure cow or hog manure to help stiffen it up a bit. It has been my experience that the best soil for carnations is a moderately stiff loam with good drainage. If it can not be had naturally the next best is to try and get it artificially.

Where commercial fertilizers are used the soil should be renewed every season without question. Such soil should be thrown out and planted to some rank growing plant like corn or clover before being fit for inside use again. It is not advisable to use this class of fertilizer in the field, but in some soils it may pay to experiment with them in the house and possibly we may find one that will give better flowers and more of them than can be had from ordinary manure. One thing not to be overlooked while on this subject is that no plant grown in a commercial fertilizer should be used for propagating, as they are sure to deteriorate; they seem to act on carnations like drugs do on a human being, to help them over a short time, but the after effects are always bad.

The whole subject resolves itself to this: Every grower should study his soil until he finds the best and least expensive way to handle it as well as what manure will give the best results in it. I hope that my experience may be of some assistance and would like to hear from others who have a different soil. A. M. HERR.

Mr. Dillon in the discussion which followed advocated raising the soil in ridges on which to plant carnations. The dirt is not then thrown up on to the plants in cultivating. Either too deep planting or soil thrown up against the plant is often the cause of many sickly carnations.

Mr. Lombard disputed Mr. Herr's theory regarding the use of commercial fertilizers. He uses no other manure out doors and can't believe that the manure has any effect on the health of future plants. If a plant thrives on commercial fertilizer it is a success. When a cutting is taken from a plant and rooted it becomes a new plant with an entirely new life of its own. He uses as much as two tons of fertilizer to the acre.

Mr. Palmer said it was his practice to take the soil from the rose benches for his carnations and he doesn't see any better carnations anywhere than he has. His soil is heavy brick clay soil at that and all the fertilizer he gives it is a little rotten manure in spring.

Mr. Ward spoke of the merits of spent hops from the brewery together with a dressing of pure ground bone.

Mr. Lombard said that he made it a practice to plow up a piece of sod land every spring, turning the sods completely over, which he used to plant his carnations on. Would never think of planting them upon any but new soil. He believed in plenty manure and that the trouble with many plants is that they are starved.

Edward Swayne next read a paper on the production of seedling carnations.

THE PRODUCTION OF NEW SEEDLINGS.

Some one has said "If a man would succeed in life the first thing he must do is to choose good parents." The advice comes rather late for us in some respects, but serves to show the importance of heredity. "Like begets like and beauty breedeth beauty."

Were we to accept this as infallible we would be doomed to many disappointments, but that it is a general law and must form the basis of our operations in the production of new seedlings none can deny. With this in view the next thing to do is to decide what we want, that is what is most desirable in a carnation and right here I want to protest against the idea of making the size the first thing. A flower should be judged by a scale of points. I will put down such as seem to me important:

First, color; second, form; third, fragrance; fourth, substance; fifth, texture; sixth, stiffness of stem; seventh, length of stem; eighth, freedom of bloom; ninth, appearance under electric light; tenth, size.

Each of these qualities should be judged by a scale of ten, making one hundred points in all. There would then be little trouble in getting the approximate value of a flower. Although this is put in rather a dogmatic way, it is meant to be only suggestive, as regards what seems to me the best method of judging flowers. I earnestly hope that something of this nature may be adopted for our exhibitions.

Now that we have some idea of what is wanted the next thing is to select such varieties as have the greatest number of desirable qualities or certain ones in the highest degree and by a happy union hope to conserve the good and eliminate the bad, and here we are likely to be surprised, delighted and dejected by turns, for the present state of science does not give any certain laws by which we can predict certain results. It only suggests tendencies, but if every florist who attempts the production of new seedlings would keep a careful record "even to the third and fourth generation" someone will no doubt be ready to take that mass of evidence and deduce from it laws that would aid us materially in our labors.

I have many theories and I suspect our friend the president is richer in theories than I. I shall spare you the recital of mine (which I trust he will not when the occasion offers) and give you only facts.

The most interesting batch of seedlings, for several reasons, that I have grown, came from a pod which was fertilized by a single flower. Two-thirds of them were double, about as large a proportion as we usually get when both parents are double, and the growth and vitality were exceptional even for seedlings. Thos. Cartledge was one of them and made the finest lot of plants I had in the field last summer. There were about twenty-five plants in the original batch, eight of which were saved. They may probably be reduced this winter to four, which will still be a very good percentage. Mr. Fred Dorner says 5 per cent of valuable seedlings is a good proportion, so I ought to be well satisfied with this result.

I wrote to Mr. Thorpe last winter asking information in regard to cross-fertilization and he advised in-breeding. His theory (if I understood it) was that when one has a number of seedlings of the same blood that in crossing these there is less liability of some disturbing outside element entering into the calculations. This was a surprise to me and I should fear loss of vitality from such a course, but coming from Mr. Thorpe I must accept it.

I cannot bring this paper to a close without paying my tribute to the flower whose potent influence has given birth to this vigorous organization. The flower around which cluster so many odoriferous memories and so many auriferous hopes. Next to the rose I hold it in beauty of foliage, flower and bud; equal to it in fragrance and grace, and the time may not be far distant when the growing sister may push the elder beauty closely for preeminence. EDWARD SWAYNE.

In the discussion which followed Mr. L. Wight said that he had had a similar experience in crossing single and double varieties. The best varieties he has ever produced have resulted from such crosses. He selects healthy varieties from among the new kinds and crosses them with the

most vigorous single ones. He pays no attention to color of parents, as this seems to have but little effect on the color of the progeny.

Mr. Swayne said that by going back to primitive varieties for pollen we get much more vitality. He uses single blooming kinds only for pollen bearing parents. As to color there is a strong tendency for the pollen parent to reproduce its own color. The power varies with different varieties, some being fairly successful, while others cannot be depended upon at all.

Mr. L. Wight then read a paper on the construction of greenhouses for carnation culture.

GREENHOUSE CONSTRUCTION FOR CARNATION CULTURE.

As carnations are grown under glass the whole year, except the short time required to remove the old plants and soil and put in new, the question of the best aspect for a carnation house must include the summer as well as the winter conditions. As large and fine crops of flowers have been grown in this neighborhood in narrow north and south houses, with 6x8 glass, as in wide houses facing the south, with large glass. From this I infer that whatever the aspect there will always be light enough during the short winter months and we can devote our whole attention to dealing with the great surplus of light and heat during the long summer days. I may say in passing, that I am giving merely the local experience of a small number of growers in this neighborhood, some of whom are well known as very successful. Our experience is that an aspect which will bring the sun's rays in a line with the ridge at half past one or two o'clock affords us the best protection.

As far as health of plants and production of flowers is concerned I do not see that it makes much difference what the shape of the house is; but a three-quarter span is to be preferred, because it is better adapted to some other crops in case a change should be desired. Experience here shows that most if not all the varieties of carnations which we grow will do as well in solid beds as in benches, and the plan of having a solid bed in the center and two side benches is growing in favor. The solid bed should not be over six feet wide, allowing eight rows of plants, and it should be built well up so as to be at a convenient height for working among the plants. This will give a house from 16 to 18 feet wide according to the width of the side benches.

A common way of constructing walls is to set posts five or six feet apart, spike the plate to the top of the post, the plate being grooved on the under side to receive the boards, a stringer is then cut in between the posts near the ground, and the boards are put on vertically. There is one serious objection to this method. In watering the side benches more or less soil will be washed over the back of the bench which is apt to lodge on the string piece where it accumulates and, being wet during most of the season, decay soon sets in at the angle made by the stringer and the outside boarding. In one such case the boards rotted through in five years. In fact this is the weakest point in the usual greenhouse construction. A better way would be to set the posts nearer together and nail the boards on horizontally directly to the posts; then there would be no place for anything to lodge and when the posts themselves show signs of weakness it will cost but little to put in a new set between the others. A good soaking with crude petroleum will add considerably to the life of a post.

As between iron and wood for the superstructure I prefer wood; it is much cheaper and, if properly put together, will last a life time. Only clear lumber should be used; there should be no lodging places for dirt or water; all joints should be perfect and put together with thick paint; everything should be thoroughly painted and should be kept painted; neglect in this matter is fatal to the life of a greenhouse.

There does not seem to be any advantage in the use of large glass. One of the most successful growers in this neighborhood uses 10x15 single thick and third quality and does not want anything different. We like to bed the glass in putty, crown down and without springing it in the least. The least strain is sure to result in a break.

We don't use the putty bulb, preferring to draw the sash-rail in the usual manner with paint of usual thickness. The thick lead put on with the bulb is difficult to remove; it curls up at the edges and does not make a satisfactory job. It is the swelling and shrinking of the sash-rail that loosens the glass, and a light coat of paint is better than a heavy one for stopping the slight cracks made by the shrinkage and it can be put on very quickly.

Crude petroleum is an excellent thing to use upon all inside woodwork, especially the benches. A neighbor says that it drives away the sow-bugs. It will add about two years to the life of bench boards. In whatever way the bench is constructed the joist upon which the bench boards actually rest should be not over two feet apart, the shorter the bearings the longer the boards will hold. I have seen benches where the bearings were four feet and the boards were sagging badly with the weight of the soil; it does not pay to build that way.

The most important question in regard to carnation culture is undoubtedly that of soil. There is one quality the soil *must* have, and that is adhesiveness. If our experience in this neighborhood is good for anything it is settled beyond any question that carnations must be dug with good clumps of earth and without disturbing the roots. Field grown plants which are shipped a long distance with but little earth are in the worst possible condition to give good results.

There are many points concerning the culture of carnations yet undetermined. What we need is a series of experiments conducted under circumstances which will admit of an exact comparison of results. The experiences of individual growers working at a distance from each other and under different conditions, with different climate, different soil and different varieties of plants, however interesting in themselves, do not furnish any basis for comparison. Of course we learn much in this way, but it is generally from our own experience in trying to utilize the experience of others. The Carnation Society will certainly have enough to do. The need of organized effort is so obvious that it is a matter of surprise that nobody thought of it before.

It is a matter for general congratulation that the new society starts upon its career of usefulness under such able management and with such influential support. I think there are good times ahead for carnation growers. L. WIGHT.

Mr. Swayne described his method of lifting carnations in the fall. He provides pans containing about one inch of water into which the plants are placed as quickly as lifted, and in which they are transported to the beds to be planted immediately. The plan appeared to be successful with most varieties. Some few varieties were not quite successful, but he was not certain of the cause.

Mr. Lombard said that he always wants to take up his plants when the ground is dry as dust. He don't care if not a particle of soil adheres to the roots. The less soil the better, as there is less danger of breaking the fibrous roots. To avoid injury to the fibrous roots and to get plants back into the soil as quickly as possible he believed to be the most essential points to success.

Mr. Swayne said that he had used crude petroleum on part of his benches, but could not see that it arrested decay in the least. Would not say that it accelerated the rot, but it certainly did not prevent it. Pitch tar, however, he had found to be a most efficient preventive.

The secretary then read a paper on the cost of producing carnation cuttings, by J. G. Hancock.

COST OF PRODUCING CARNATION CUTTINGS.

In speaking of the cost of carnation cuttings I am aware that it is a subject upon which there is and must necessarily be great differences of opinion, inasmuch as the location and surroundings of the florist largely affect the first cost, expense of rooting the carnation cuttings, etc. The cost of unrooted cuttings taken from old and standard varieties worth but $2 per 100 will not be so great as those cut from plants costing $12 per 100 and upwards. This at the outset makes a decided difference in the first cost of the cuttings.

When the florist wishes to keep up with the times and have the best varieties of carnations to be had he must be ever on the alert to obtain the new ones as fast as they are introduced. Many of them prove to be decided acquisitions and well repay the outlay, and the introducers deserve great credit and all the money they can get for them. Others, however, prove worthless and the progressive florist pays dearly for his experience. This suggests to us a wide field for our carnation society and in following up the suggestions of our president at the last meeting, of having new varieties tested in different localities by an appointed committee before being placed upon the market, we will save the florist the expense and trouble of testing for himself the many varieties which will not be likely to prove satisfactory, as any variety thoroughly tried by a competent committee and awarded a certificate must have some degree of merit. Thus indirectly the cost of placing carnation cuttings upon the market can be materially lessened.

Another feature in regard to the cost of the unrooted cuttings is the value of the stock plants for producing cut flowers. For if a florist is situated so that he can get good prices for his flowers he can not afford to use up his plants for cuttings. I have in mind one florist who is a shrewd business man, who says that at the present prices of carnation cuttings and carnation blooms he can not afford to cut up his stock to root cuttings even for himself. No doubt there are many others who find it to their advantage to do the same.

As to the best time of making cuttings there is a difference of opinion. Some

prefer cuttings made early in the season before the plants have been forced, and others because they make large plants and so many will not be required to fill a certain space in the houses. On the other hand some desire later struck cuttings, claiming that they are not so healthy for remaining so long in the houses before being placed in the field. Personally I have found little difference except in some slow growing varieties like Hinze's White and Garfield, which should be propagated earlier than some of the quicker growing varieties such as Silver Spray and Tidal Wave. Of these latter two varieties I made cuttings last season late in May and planted in the field late in June direct from the cutting bench, which now (November 2nd) are strong bushy plants well covered with buds and blossoms. There should be at least five months, December, January, February, March and April, in which with proper care carnations can be readily struck. There are, however, in our experience some varieties which are hard to root under any circumstances.

No doubt we have all had the same experience with some customers who demand large cuttings. Now it may not come amiss to stop and inquire if the size of the cutting has anything to do with its value. I apprehend that the value of a cutting is in the plant it will make. In my opinion a small cutting, if of well ripened wood, showing no tendency to send up a flower bud, makes a more thrifty growth and a better field plant than one of extra size. The large cuttings generally have a number of joints formed before the cutting is rooted, which gives the field plant a tendency to be tall and straggling while the ideal field plant is short and bushy.

In this subject of rooted cuttings of carnations it may not be out of place to consider if the business principles applied in other branches of industry might not apply here. Can the florist who roots carnations by the hundreds of thousands produce cheaper than the one who produces only a limited quantity? In either case can the limited grower or the extensive one afford to place his products upon the market at prices which will not allow of a fair profit? A little experience of mine last year might not be out of order right here. Very early in the season some growers quoted prices lower than I could afford to sell, properly valuing my stock. After debating some time as to whether I should adopt the motto "I shall not be undersold" or whether I should ask a fair price I decided upon the latter, sold my entire stock of the varieties in question, then bought more from the Atlantic coast, paying high express rates and reshipped again to the east still making a small margin. JAMES G. HANCOCK.

The subject was discussed at length by Messrs. Herr, Lombard, Wight and others without getting anywhere near an estimate on the cost of producing cuttings, excepting that Mr. Wight said that with some varieties he finds that every cutting which he takes costs him 10 cents at least in value of blooms sacrificed.

The best manner of obtaining cuttings proved to be an interesting subject, Mr. Lombard claiming that taking cuttings from a plant has a tendency to make the flowers on that plant burst the calyx. He never stakes a carnation from which he desires to obtain cuttings, but allows it to lie naturally on the bed, which induces many more breaks from the joints.

Mr. Wm. Swayne said that if he had plants enough he would never take anything for propagating purposes except two or three top tips of blooming stems, but is of necessity forced to take other wood. If possible young plants should not be grown from a lot of stuff taken from the base of the plants. This theory was favored by most of the speakers.

Mr. Ward then read a very intelligently written and interesting paper on Business Methods, which will appear in a future number of the FLORIST.

Mr. Lombard read a few notes on the Dissemination of New Varieties. He said that care should be taken that none but good varieties should be disseminated, requisite qualities being healthy robust growth, free and continuous blooming, and calyx free from tendency to burst. He could not mention any variety which had grown well in all locations, but thought Ferd. Mangold came nearest to that ideal. A man should not attempt to disseminate a new variety until he had sufficient stock to meet all demands. Another important point he thought was uniformity in price, ten dollars per hundred being in his opinion enough to ask for a new variety. Plants and flowers should be exhibited as extensively as possible, that all who are interested may have good opportunity to see for themselves. He spoke strongly in advocacy of truthfulness of descriptions and cuts in catalogues and price lists, showing the variety in as favorable a light as possible but never exaggerating. Referring to Mr. Thorpe's ideal of a 4-inch bloom he said we will have to wait a long time for it, and did not see any great opening for such carnations in the market provided they were obtainable. This latter opinion was not exactly in accord with the sentiments of several others who thought that there would always be people who would be glad to buy the best and to pay well for it.

The question as to whether a variety runs out in a certain number of years as claimed by Mr. Fred Dorner came up and was discussed merrily. Mr. Delmar thought that instead of running out, old varieties might even be improved by good systems of propagation. Mr. Lombard thought that it was a law of nature that any plant from seed, even if carefully reproduced by cuttings must eventually die out. Mr. Dillon did not agree with him, and instanced La Purite and Edwardsii as proofs to the contrary. Mr. Lonsdale said that DeGraw is thrifty enough with one of his neighbors and shows no signs of breaking up. Edward Swayne favored the idea that the plants eventually run out, although it no doubt varies with different varieties as to length of time. Mr. Ward said that Peter Henderson held that varieties run out only on account of improper and careless culture.

After the discussion a committee of three, consisting of A. M. Herr, H. E. Chitty and C. J. Pennock, was appointed to have authority to establish a list of new sorts as they come out, and to supervise carnation nomenclature generally.

The meeting then adjourned.

"Afraid to Tell the Truth"

On or about October 18 the *Rural New Yorker* received manuscript from Mr. Wm. Falconer of the some article which appears in your issue dated October 29, page 252. I replied at once that the article would be printed as written if he so insisted, but that I hoped, for several reasons given, that he would prefer to omit the sentence which accuses the *R. N. Y.* of "a cowardly act." One of these reasons was that in a note to me, written several months ago, Mr. F. stated that the results of the committee's investigations would astound the public. Replying to this, I begged that he would furnish us with the particulars of these revelations at the earliest possible date, that we might present them to our readers. No reply was received, and I was left to infer that we must wait for them until they should appear in the society's proceedings.

The appearance of Mr. Falconer's article under the above caption (page 252) is the only intimation I have had that he declined to modify it in any way.

Mr. Falconer says that he "appealed to the *R. N. Y.* and to its readers for information about any plant grown under two names or more, * * * or any instance wherein a dealer or florist misnamed a plant intentionally for selfish or mercenary motives." Further than this, "believing the *R. N. Y.* to be actively interested in this sort of work, I personally appealed to the editor as an individual, soliciting his aid in this nomenclature business."

"His reply," Mr. F. continues, "was courteous, but he did not bring any case to my notice." The appeal, however, was promptly placed before our readers, and their cordial co-operation urgently solicited.

Mr. F. has been a valued contributor to the *R. N. Y.* for many years, and has during the entire period been a careful reader of its contents. If there has been one thing more than another that during my editorial life of 20 years I have without fear or favor endeavored to expose and condemn, it has been the rascally practice of certain seedsmen, nurserymen, etc., of misrepresenting the wares they have offered to the people, either by grossly exaggerated or absolutely false claims, or by the use of new names to accelerate the sale of old things. If the AMERICAN FLORIST were willing to print a list of such instances I would gladly furnish it. That examples of this character during the past year have not been wanting, the fact that the *R. N. Y.* has been sued for $75.000 by a prominent seedsman and florist may be cited in evidence.

Ever since the committee on nomenclature of the S. A. F. was announced, every instance worthy of note of such violations of honorable business methods that have come to my notice has been presented in the *R. N. Y.* and denounced. Have these instances escaped Mr. Falconer? By no means. I have several letters from him, some of which commend, some of which criticize these exposures. As in this way every case of false naming, etc. that I have known about has been promptly printed in the *R. N. Y.*, and as Mr. F. has read every one of them, it will appear that it would have been a needless task to rewrite what the chairman of the committee was already quite familiar with.

Since the committee's report, which informed us that it "had found it a difficult matter to find out mistakes intentionally committed with a view to deceive and defraud," I have sought information from several leading members of the S. A. F., whose names I have—at present, at any rate—no right to divulge. "Why is it," I asked, "that the committee did not publish the whole truth?" The replies were in substance, "The committee does not dare to do so. It would result in a breaking up of the society or in libel suits which it could not stand. Every member of the committee knows this and feels that he has been engaged in a work, the ugly parts of which must be smoothed over or suppressed."

The objectionable editorial note in the *R. N. Y.*, which the chairman quotes, was, therefore, written with the view of saying what the committee, for reasons of policy, did not deem it judicious to say. The committee, we assumed, gave greater weight to the necessity of maintaining an *entente cordiale* than by telling unpalatable truths to endanger the union and harmony of the society.

We have made no charge that the committee was not *"prompt and fearless in its investigations"* The charge is that it has not promptly and fearlessly presented the results to the public.

That there is anything "untrue" or "cowardly" in the *R. N. Y.'s* position must rest upon other evidence than the assertion of the accomplished chairman of the committee on nomenclature of the worthy Society of American Florists.

E. S. CARMAN.

River Edge, Bergen Co., N. J.

[The sentence in the nomenclature committee's report that has so greatly disappointed the *R. N. Y.* will be heartily endorsed by every fair-minded florist in the country, certainly the FLORIST endorses it, and we do pretend to have considerable means of knowing something about the florists and the florist business in this country. And while Mr. F. was reading from his report before the S. A. F. at the convention at Toronto, his audience right there and then applauded that very sentence. They knew the truth, and they were neither slow nor afraid to show their appreciation of the truth.

The present report of the nomenclature committee is one of the most vigorous and substantial papers ever presented to the society, a paper from first to last filled with solid common sense.

Mr. F.'s letter was mailed to us on Thursday, October 15, and he informed us that he had mailed an identical letter to the editor of the *R. N. Y.* the same day in New York City. No doubt whatever facts Mr. F. has gleaned from the *R. N. Y.* have been made good use of by him. The FLORIST is perfectly willing to publish facts about frauds perpetrated by florists, but they have got to be substantiated facts. According to circulars freely distributed at the *Agricultural Fairs* this fall, we were told the *R. N. Y.* was being sued for $150,000; there's a big difference between that amount and $75,000.

From what we know of Mr. F. we are satisfied that he is both able and willing to abide by every word he has written in private correspondence or public print.

The committee have treated the whole matter in a gentlemanly, straightforward and forcible manner, and they have not catered to any morbid taste or curiosity. In fact, they one and all ill deserve the charge made by the *R. N. Y.* that they are *afraid* to tell the truth. They were appointed by the S. A. F. to handle the nomenclature question. They are the servants of the S. A. F.: they are responsible to the S. A. F., and the S. A. F. are highly satisfied with the way and manner in which they have performed their duties and the work they have accomplished, and especially do they appreciate the labors of the chairman of the committee. And we are strongly of the opinion that any "assertion" made by the chairman will not only receive the ready endorsement of every one of his colleagues, but the S. A. F. at large as well, the *R. N. Y.* notwithstanding.

The florists of America are not the thieves, robbers and blacklegs some folks would fain paint them; they are a hard-working, honest, and honorable people, and we are proud of them. And we rejoice to know that after the strictest investigations made by a committee of the most uncompromising practical florists in the country, they "found it a difficult matter to find out *many* mistakes intentionally committed." Our correspondent will please observe that he has, for some reason or other known to himself, probably, omitted the word "many" in his quotation.—ED.]

Boston.

The November meeting of the Gardeners' and Florists' Club took place on Tuesday Eve., Nov. 3. This being election day, the rival attractions of the stereopticon bulletins on Washington street proved too much for some of the members but the meeting was fairly well attended, notwithstanding. Pres. Morton occupied the chair and Mr. W. H Long served as secretary pro tem. Mr. Robt. Farquhar, chairman of the committee appointed to procure a charter for the club, brought up that matter, asking for further instructions. In the discussion that followed Mr. P. Welch waxed eloquent and expounded to his hearers the duties and the limitations of a chairman of a committee to the great amusement of Mr. Ed. Hatch and Judge Hoitt, who encouraged him on as best they could. The committee on revision of the by-laws made a report recommending that the name of the club be changed to the "Gardener and Florist Educational Society of Boston." This will be acted upon at the next meeting.

Mr. S. Coleman reported for the committee in charge that the bowling match would take place on the afternoon of November 11, and the annual supper on the evening of the same day. Mr. H. Bayersdorfer and John Walker, of Philadelphia, being present were called upon to make a few remarks, and responded accordingly. Much enthusiasm was created by the reception of a telegram from New York that the secretary of the club, Mr. E. A. Wood (Little Wooddie), had beaten the New Yorkers on their own ground and had captured the big premium for chrysanthemum blooms, and that his big pink seedling Ed. Hatch was sweeping everything before it in the cup contest. Mr. Hatch himself feels deeply his duty to his associates in connection with the latter matter and is understood to be already making preparations for a suitable acknowledgement of the honor.

The cut flower trade is in bad shape. Chrysanthemums are coming in by the cart load and there is no longer any established price on them. Roses feel the pressure and also are in the dumps. Carnations hold their price fairly well. There is not likely to be much change for the better for a couple of weeks.

Philadelphia.

Good chrysanthemums are selling well at from $3 to $5 a dozen retail; pot plants are also moving lively at prices varying from 5 cents to $3.

The past week business has been quiet with a grand wind up on Saturday, when there was a rush for violets, dark red roses and carnations and yellow roses and chrysanthemums, these being the colors of the University of Pennsylvania and Princeton College.

There was a grand foot ball match in the afternoon, the attendance being something like 20,000 people. A great many ladies were present and nearly all wore the colors of their favorites, while their escorts wore immense yellow chrysanthemums or violets and dark red roses or carnations in their buttonholes.

In the contest the large yellow chrysanthemum proved to be too much for the modest and retiring violet, and the University boys were defeated. But some day the violet will emerge from its retirement and the atmosphere hereabouts will assume a cerulean hue and the air will be redolent with the fragrance of this popular flower.

There was a general exodus of the trade here to the New York show, and certainly nobody could but be satisfied with their visit, for it was a fine exhibition taken altogether. The chrysanthemums in pots were not up to expectation, and the show in Philadelphia will very largely excel them in this department, but we doubt very much if it will be possible to equal the display of cut blooms, which were certainly the finest so far exhibited in this country.

The vases of Mrs. Hardy in the Henderson collection were a revelation, nothing approaching them, having been on exhibition before.

A few varieties that we thought particularly fine were: Vivian Morrell, very large pink and of fine form, this was in the Dailledouze collection; Edward Hatch, one of Wood's seedlings, a very fine pink, perfect form, a truly magnificent flower, this was purchased by Gurney Hill; Mrs. E. D. Adams, a Pitcher & Manda seedling, an immense white with a faint lemon tint. These three will certainly be seen in exhibition collections for some time to come.

The ten pin match which came off Tuesday afternoon, Nov. 3, was very exciting. At first it seemed as if the Gotham boys were not "in it," but as the game wore on they seemed to gain confidence and the Philadelphia boys became nervous and finally rattled; when at the end of the fifth frame of the last game it was seen that the score was tied, they went to pieces and the New York boys won in a canter. Kennedy played a steady game, but all the others seemed to lose their grip and threw away easy chances for spares. But this is characteristic of the game, for the best rollers sometimes make very poor scores.

The Florists' Club turned out in goodly numbers last Sunday and under the guidance of John Westcott, the superintendent of the chrysanthemum exhibition, Horticultural Hall was decorated in fine style with greens, autumn leaves, Japanese lanterns, parasols and the like.

There promises to be fine collections of cut roses and the competition in the arrangement of floral designs, such as plateaus, table pieces, etc., will be very close.

New York.

The cut flower market is at a stand still. Roses and chrysanthemums are coming in faster than they can be handled. The chrysanthemum show has been the all absorbing topic among the brethren and they seem to have forgotten all else.

Pitcher & Manda accomplished a great feat. Their own chrysanthemum show closed at their greenhouses at Short Hills, N. J., on Saturday night. By Monday morning they had transported to New York City and arranged in Madison Square Garden, ready for judging, their whole chrysanthemum exhibit, besides a very extensive collection of foliage plants and orchids in bloom. It was a tremendous undertaking.

The great bowling contest between New York and Philadelphia came off as announced at Immen's Alleys, corner of Fourth avenue and 32nd street, on Tuesday p. m., Nov. 3. Three games were played. The scores were as follows:

	New York.	Phila.
1st game	782	867
2nd game	932	850
3rd game	913	857
	2627	2574

Balance in favor of New York 53. This glorious result was announced to the assembled crowds in a bedlam of yells which would have put a tribe of wild Indians to shame, Mr. Ernst Asmus officiating as chief howler.

The dinner tendered by the Madison Square Garden Company to the judges at the chrysanthemum show on Monday evening at the Garden restaurant was a brilliant and successful affair. The table was beautifully decorated with baskets and vases of chrysanthemums, American Beauties and Cusins. There were present of the garden company Mr. A. Ladenburg, who officiated as chairman, Secretary J. W. Morrissey, F. K. Sturgis and others. Representing the New York Florist Club were Jas. Dean, J. N. May, C. B. Weathered, J. H. Taylor, S. C. Nash, Alex Burns, Gus Bennett, Ernst Asmus, A. Dimmock, Wm. Plumb and John Young.

Among the invited guests were W. R. Smith and J. R. Freeman, of Washington; H. H. Battles, Rob't Craig, W. K. Harris, John Westcott and Ed Lonsdale, of Philadelphia; J. T. Anthony, of Chicago; Mr. Meredith, of Pittsfield, Mass.; E. A. Wood and W. J. Stewart, of Boston; E. G. Hill, of Richmond, Ind; B. F. Dorrance, of Wilkesbarre; Mr. Murdoch, of Pittsburg; Thos. H. Spaulding, of Orange; J. R. Pitcher, of Short Hills; and W. J. Palmer, of Buffalo.

Chairman Ladenburg made a speech of welcome in which he thanked the judges for their services rendered and paid a high compliment to horticulture as a pursuit.

He was followed by Pres. Burns, who spoke for the New York Florist Club, and said that if the chrysanthemum kept on going we should soon have blooms of such a size that one would make a center piece. President-elect Dean spoke for the Society of American Florists. Short addresses followed from Rob't Craig and E. G. Hill and the pleasant occasion came to an end with many hearty expressions of good will and predictions of success.

Overheard in the exhibition: "There, see that palm there, that martinezia? Well, I call that the Lawyer Palm because it is so full of points!" It is unnecessary to add that the voice was that of W. R. Smith.

Toronto.

Just at this time chrysanthemum show matters take precedence over all others amongst horticulturists, and the secretaries of the various clubs are hustling things generally. In this city the show is certainly well advertised; one can hardly walk a block without the word "chrysanthemum" staring him in the face. The daily papers have been well "fixed," too, and a good crop of "locals" has been the result.

Entries have been coming in well, though there are many more sure ones to come yet. Everything points to the best show that has been held in Toronto yet.

Messrs. Pitcher & Manda, of Short Hills, N. J., will send cut blooms for competition in several sections, but from what I have seen about town I don't think they are going to take all the firsts. Several other firms from over the border will send cut blooms, too, but not for competition.

Single stem, single flower plants will be well represented, also plants of Mrs. Alpheus Hardy and Louis Boehmer. Concerning the latter, I have yet to hear a favorable opinion as to color; "dull," "muddy," "no good for market," seems to be the verdict. "Big" and "hairy" are its good points.

My next letter will be a report of the show. May the first word of it be "success," and may the reports of all the other shows begin with the same magic word. E.

Chicago.

The exhibition opened Tuesday and the display is very far in advance of that at any previous exhibition in this city. The show can be set down as a decided success as a display, but the financial outlook is not encouraging. It began to rain Saturday and has continued to drizzle dismally up to Tuesday afternoon. Worse weather could not have been devised and unless it changes before the exhibition closes the attendance will be light, for it would be folly to expect anything but an exceedingly light attendance during such extremely forbidding weather. Full report in next issue.

Miscellaneous Plant Notes.

BY WM. FALCONER.

THE STRIPED-FLOWERED NYMPHÆA.—Mr. Benjamin Grey, of Malden, Mass., a specialist in ornamental aquatic plants, writes me apropos of the Brooklyn striped lily mentioned on page 166 of the FLORIST. "If it will continue to keep its marks it will be a great novelty, for it is certainly a strange freak and pretty. As you are aware, however, Nymphæa Devoniensis is a garden hybrid between N. Lotus and N. rubra, the latter being only a red variety of N. Lotus, which is usually white, but varying to striped or pink. May be it was an attempt to revert to N. Lotus.

A BIG CEREUS TRIANGULARIS.—Mrs. Shepherd tells me about a plant which is growing against the corner of her residence in Ventura. It is 11 years old, with vine-like stems 35 feet long that reach to the top of the two-story house and intertwine together, clinging to the building by means of strong, cord-like roots, which it unites from its side next the boards. This is one of the rankest growing vines of the genus, night blooming, and it has the largest flowers; they are pale yellow, and 12 to 15 inches across.

MUSA ENSETE, a Californian specimen.—Mrs. Shepherd sends me a photograph of a commanding specimen in her garden, showing flower and fruit and bold leaves tattered and torn by strong winds. She writes: "It was 25 feet in height; stem, 9 feet in circumference, 3 feet from the ground; flower raceme 6 feet long, and it ripened 6,000 seeds."

BLANCHE FERRY SWEET PEA.—Mr. C. L. Burr, of Springfield, Mass., says: "Planted with other varieties, it came into bloom two weeks earlier than they did, and sold in the stores for a good price before the rush of sweet peas came in. But I have not found it dwarf, as recommended; with me it requires brushing."

DOUBLE CORNFLOWERS.—Mr. Burr says he found four plants among his lot last year that showed extra points in the way of doubleness. He isolated them and saved seed from them, and in the seedlings raised this year from these seeds he finds a marked improvement over the ordinary strain. Selection pays. He also writes:

"THE MARGUERITE CARNATION is a good thing, and the new dwarf variety is an improvement, but not quite fixed yet."

THE LILIPUT ZINNIAS he also recommends, but they need selection.

Store Trade.

This department will be devoted to matters of interest to the retail, or store florist. Communications invited.

An Unfortunate Situation.

Three young men recently called at a store in this city and ordered on the same day, to be delivered to the same young lady, flowers as follows: A ordered two dozen mixed roses, made up into a corsage bouquet; B ordered two dozen red roses in a corsage, and C ordered two dozen Bride roses. All left a note to go with the flowers requesting the young lady to wear the flowers that evening.

Question: How could she most gracefully comply with all these requests?

P.

It is more in our province to advise as to the best and fashionable way to arrange and send flowers than it is to answer the question as stated. To answer it, it would be necessary to grapple with a social problem far beyond our experience.

The act of one lady, pleasing three men, is a problem that has been a poser for centuries. Among the men that have tackled it you will find such names as Plato, Socrates, Webster, Train, J. L. Sullivan, and many others of equal force, but to no purpose. The secret is still hidden behind a gentle voice and pleasant smiles. Many men have conquered many snubs and many smiles have conquered many men, but the problem still remains unsolved.

We have a number of times in these columns advised against large corsage bouquets, and especially so when the wishes of the lady that is to wear them are not known. It would have been far better had A, B and C sent a pretty assortment of well chosen flowers that the lady might select those she wished to wear. The color and cut of the dress are always to be considered.

For a moment imagine that a lady is going to wear a dress of some shade of purple and cut decollette, what can she possibly do with a bunch of twenty-four red roses that B has ordered? A we think still more unfortunate in his selection. As the young lady was going to a reception it would also have been in good form for the men to have had the flowers loosely arranged in hand bouquets.

If any one of the three were to accompany her it would not have been out of place for him to have asked her preference as to color, etc., yet even this is a very delicate question. But it is putting quite a tax on a young lady's disposition to ask her to wear a large bouquet which may not at all be suited to her costume.

YOU CAN give the AMERICAN FLORIST your fullest support by confining your orders to those who advertise in its columns, and when ordering mentioning the fact that you were induced to order by the adv. in the FLORIST.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

Buffalo, Nov. 12-14—Buffalo Florists' Club. Dan'l B. Long, Sec'y, 457 Main St.

Providence, R. I., Nov. 12-14—Rhode Island Hort. Society. C. W. Smith, Sec'y, 55 Westminster St.

Willmington, Del., Nov. 12-14—Florists of Wilmington

Bay City, Mich., Nov. 16-21—Bay County Hort. Society. T. J. Cooper, Sec'y, 811 N. Water St.

New Orleans, La., Nov. 17-19—New Orleans Hort. Society. Charles Wise, Sec'y, Third and Prytania Sts.

Milwaukee, Wis., Nov. 17-20—Wisconsin Florists' and Gardeners' Club. C. B. Whitnall, Sec'y, 438 Milwaukee St.

St. Paul, Minn., Nov. 17-20—St. Paul Florists. L. G. Venzke, Sec'y, 131 East Sixth St.

Philadelphia, March 29-April 1—Penn. Hort. Society. D. D. L. Farson, Sec'y Horticultural Hall, Broad St.

THE PRESS AND POPULAR FLOWERS.

Both as a flower show and financially the chrysanthemum exhibition recently held in New York has been an unparalleled success and this was largely due to the unstinted support given to it by the great newspapers of the city. Not only did the press give prominent and full reports of the exhibition, but by illustrated articles on chrysanthemuns before the show opened, the public appetite was whetted for a sight of the regal beauties. The most prominent of these chrysanthemum articles, five columns long and freely illustrated, appeared in the *Sun* of Sunday, Nov. 1. And instead of being a gushy, aerial screed, as we often find about flowers in the daily press, it is a carefully written, historical and practical article, trustworthy throughout and easily understood by anybody. Material of this sort cannot fail to do good.

THE American Carnation Society is an exceedingly robust infant. The second meeting, held last week for the purpose of completing the organization, was, as will be seen by the report in this issue of the FLORIST, of very great value to its members, and in fact to every carnation grower in America. It is very gratifying to note the active interest shown, and above all the actual work that was accomplished. Such a society, full of life and vigor, realizing the necessity for good work and possessing the power and inclination to put good ideas into execution, is a grand, good thing.

"WHY DO YOU preach so much about cost of production?" some one may ask. Because we believe that if every grower knew when he had got down to the cost line he would call a halt, whereas now many drop below this line without knowing it, in the heat of competition, and thereby injure the whole trade, as well as themselves. It is for the best interests of the whole trade that everyone in it should be educated up to the absolute necessity of knowing positively what it costs him to produce the plants he sells. A man will not knowingly grow stuff at a loss—not a second time, at least.

A NEW YORK daily paper tells us that Hindoo women of certain castes in a portion of India have given up wearing nose jewels and have substituted flowers therefor. And an illustration that adorns its columns shows one of these Hindoo women wearing a small chrysanthemum in her nose. The rich and peculiarly penetrating "fragrance" of the chrysanthemum must make it an extremely desirable nose ornament.

JUDGING from the clippings from daily papers that are sent us the exhibitions have in nearly every case received very generous advance notices from the daily press.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Rose Notes.

The roses grown by Mr. D. B. Fuller, of Downer's Grove, Ill., who retails all his flowers in his Chicago store, are of the following varieties: Brides, Mermets, Perles, Woottons, La France, Albany and Gontier.

Speaking of the Wootton, Mr. Thos. Hopkinson, Mr. Fuller's foreman, said: "We like it and consider it a profitable rose to grow for cut flowers. There are a good many defective buds, but on the whole it is very satisfactory."

He likes the Albany too. Some of the buds come deformed, but he cuts so many finely colored buds that the average results are satisfying.

He also has a good word for the Gontier, and while he laughs at the idea of cutting more buds from a given space of this rose than from an equal space of Bon Silene he says that the Gontier certainly does give larger returns per square foot, but wholly on account of the better prices that the Gontier buds bring.

Chrysanthemum Names

Messrs. Pitcher & Manda, Short Hills, N. J., have registered "W. A. Manda." A flower was sent and it resembles Mrs. A. Hardy in form and hairiness but the color is a rich deep yellow.

EDWIN LONSDALE,
Sec'y Am. Chrysanthemum Society.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a German, middle aged, single and sober, some experience, want work in greenhouses only. Address F K, care Western House, 81 83 W. Main St., Springfield, O.

SITUATION WANTED—Foreman. Roses a specialty; will propagate by the thousand. Designer and decorator. First-class stock only. Would like California. Address W., care American Florist, Chicago.

SITUATION WANTED—Jan. 1st or after, by young man thoroughly experienced in experimental gardening, including knowledge of notes, records, descriptions and classifications. Good references. F. A. WAUGH, 722 W. 8th St., Topeka, Kan.

SITUATION WANTED—By a practical gardener as manager of private or public grounds or large commercial plant; thorough knowledge of all branches; a successful hybridizer of orchids; unexcelled in palms, stove plants, roses, cut flowers, grapes, etc.; rockery and landscape gardening; 20 years' experience; unexceptional references; sober; married, with small family; only first-class position desired. Address BOTANIST. Niagara St., Pittsburg, Pa.

SITUATION WANTED—By practical florist; single, middle aged, who has devoted all his life to the business with the greatest interest. Successful rose grower. Very capable of taking charge with the greatest interest. Know something about forcing mushrooms. Very temperate; of good habits. To those who wish such a man the greatest satisfaction will be assured. Satisfactory references. Address PRACTICAL FLORIST. 263 W. Randolph St., Chicago.

WANTED—At once—A thorough, practical man as fireman; good wages; state references. ANCHORAGE ROSE CO., Anchorage, Ky.

WANTED—Florists to send their wholesale price lists to Secretary Maple Hill Floral and Nursery Co., Danville, Ill.

WANTED—A young man with some experience who is very quick and a good worker. Wages $35 00 and board. EMIL GLAUBER, Montclair, Colo.

WANTED—To rent for years—A small florist establishment in vicinity of St. Louis; will take charge of place Jan. 1 or 15, 1892; please write at once and give full particulars. FLORIST, 404 S. Second St., St. Louis, Mo.

WANTED—A good, sober, industrious cut flower grower; must be well up in roses, carnations, and violets; single man preferred; state wages expected with board. Address at once, W. G. HUSCROFT, Steubenville, O.

WANTED—For our floral department a young man who has had several years' experience in selling and making up cut flowers. Must come well recommended. Apply by letter, stating age and experience. BROWN, THOMSON & Co., Hartford, Conn.

FOR SALE—Stocked greenhouse, dwelling and land, near Baltimore, Md. Address WM. INGLE, Arbutus, Md.

FOR SALE—Cut flower store doing business under the name of The Bijou; seven years established; have a good trade; reason for selling given upon application. Address CHAS. W. RIEMERS. 329 Fourth Av., Louisville, Ky.

FOR SALE—A first-class retail florist business, palm greenhouse attached and well stocked with fine salable palms. Owner giving good reason for selling. Address W. M. HAYES, care Ellison & Kuehn, 1122 Pine St., St. Louis, Mo.

WANTED—Gardener. Having built two large new houses for the purpose of engaging in the retail catalogue plant trade in connection with my seed business, I want a good man to take charge of same. Must be young or middle aged, married, sober, industrious, honest, intelligent, and thoroughly understand the propagation and growing of miscellaneous plants. One who has had some experience in the mail and express trade preferred. Good and permanent position to the man that fills the bill. Good references as to character, etc., required. Correspond for further particulars. State capabilities and wages expected. L. W. GOODELL, Pansy Park, Dwight, Mass.

TO GARDENERS AND FLORISTS.

J. C. GOODING, the well-known rose grower, wishes to retire, and will dispose of his greenhouses, all well arranged, heated by steam, about 16,000 feet of glass, dwelling and barn; lot 160x350; good location, within city limits. Cash, half down. Address 1216 Euclid Ave., Cleveland, O.

REMOVAL.

BURNS & RAYNOR,

Wholesale Florists,

HAVE REMOVED TO

49 West 28th Street, NEW YORK,

where they will have larger store space and better facilities for their rapidly increasing business. Their method of **Shipping Roses** has given them a large out of town trade and for good flowers, especially **Beauties** and **large Mums** the above address is **Recognized Headquarters.**

CUT SMILAX

Over ¼ acre solid beds. First-class quality, 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.

JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price list write for same.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.

E. J. HARMS,
Wholesale Dealer in
CUT FLOWERS,
And Florists' Supplies.
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

C. STRAUSS & Co.
GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

CUT FLOWERS.
The Western Trade Solicited.
Write or Telegraph.
SMITH FLORAL CO.
77 7th Street S. Minneapolis, Minn.

TRY DREER'S
GARDEN SEEDS
Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia

F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.
Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.
☞ Wholesale Catalogue on application

Wholesale Markets.

Cut Flowers.

NEW YORK, Nov. 10.

Roses, Bon Silene	1.00
" Perle, Niphetos, Souvs	2 00@ 3 00
" Cusin, Watteville	2 00@ 3 00
" Gontier, Hoste	2 00@ 3.00
" Mermet, Bride	2 00@ 4 00
" La France	5 00@ 8.00
" Albany	5 00@ 6 00
" Woottons	1.00@ 3.00
" Beauties	5 00@30 00
Lily of the Valley	5.00@ 6 00
Carnations, long	1 00@ 1 25
Violets	1 00@ 1.50
Smilax	10 00@15 00

Trade very quiet The demand for chrysanthemums has made the price of roses very low.

BOSTON, Nov. 10.

Roses, Bon Silene	1.00
" Gontiers	2 00
" Niphetos	3.00
" Perles, Sunsets	3 00@ 4.00
" Mermets, Brides	3 00@ 4.00
" La France	4 00@ 6.00
Carnations, long	1.00@ 1.50
" short	50@ .75
Valley	6.00
Violets	.50@ .75
Chrysanthemums	2 00@ 8 00
Pansies	.50
Adiantums	1 00
Smilax	12.00
Asparagus	50.00

PHILADELPHIA, Nov. 10.

Roses, Beauties	12 00@20.00
" La France, Albauy	4.00@ 5 00
" Mermets, Brides, Bennetts	4 00@ 5.00
" Pierre Guillots, Dukes	4 00@ 5.00
" Cusins, Watteville, Hoste	3.00@ 4 00
" Perles, Niphetos	2.00@ 3.00
" Gontiers	1.50@ 2.00
Valley	8.00
Carnations, long	1 00
" short	50@ .75
Chrysanthemums, specimen flowers	8.00@25 00
" ordinary	1.00@ 2.00
Smilax	15.00@20 00
Adiantums	1 00
Violets, single, bunches	3 50@ 5.00

CHICAGO, Nov. 11.

Roses, Am. Beauties	12 50@18 00
" Perle, Niphetos	3 50@ 5 00
" Gontiers, Hostes	3.00@ 4 00
" Mermets, Brides	4.00@ 6.00
" La France, Albany	4.00@ 6 00
" Bennetts, Woottons	4 00@ 6.00
" Bon Silenes	1 50@ 3.00
Carnations, long	1.50@ 2.00
Carnations, short	75@ 1.00
Smilax	15 00@18.00
Chrysanthemums	1 50@ 3 00
Adiantums	1.00@ 1.25

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

GEO. MULLEN,
WHOLESALE FLORIST,
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order.

C. E. & S. S. PENNOCK,
WHOLESALE FLORISTS,
38 S. 16th Street, Philadelphia, Pa.

EDWARD C. HORAN,
Wholesale Florist
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.

THOS. YOUNG, Jr.
Wholesale Florist
20 West 24th Street, NEW YORK.

CHRYSANTHEMUMS.
Specimen Blooms of the finest Prize varieties, carefully packed.
LILY OF THE VALLEY, and the Choicest ROSES for the fall and winter season.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST
32 West 30th Street,
NEW YORK.
ROSES SHIPPED TO ALL POINTS.
Price List on Application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.
Mention American Florist.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.
Mention American Florist.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

The Vick Auction Sale.

Some bitter comments are made by the creditors on the short notice given of the sale. The fact that creditors were not permitted to inspect inventory, and the fact that goods, lists of names, etc., aggregating some $40,000 or $50,000, were sold for about $5,000. It is said creditors will receive a very small percentage on their claims.

A Liberal Commission.

The following letter, copied verbatim, would indicate a shocking state of affairs in the commission seed trade:

———, Texas, October 30, 1891.—THE HARNDEN SEED CO.—*Dear Sirs:* Your terms on seeds to sell on commission to hand. It seems you only allow 40 % commission on all seeds sold, while ——— & Co. allow 100 % on all seeds sold. Unless you could do as well as ——— & Co., we would not handle your goods.

Yours truly, ———.

VISITED CHICAGO: C. A. Morse, J. A. Robbins, Henry A. Salzer, A. H. Goodwin, J. Cómont.

W. R. STRONG & Co., seedsmen, of Sacramento, Cal., are reported to have failed with liabilities of $200,000.

WHAT WILL be the retail price on onion seed? Shall it be 25 cents per pound higher? Let us hear from Mr. Maule.

RED Wethersfield onion is firm at 85 to 90 cents per pound in quantity. White onion scarce. Cucumber not in the market.

MR. HENRY A. SALZER does not anticipate as large a general seed trade the coming season as last, owing to the large supply grown by most farmers.

Carnation Notes.

D. B. Fuller, of Downer's Grove, Ill., sells nearly all his flowers in his Chicago store, and below is given the varieties he grows and the number of plants of each, showing the proportion that he has found most advisable.

In whites he grows nothing but Silver Spray, and of these he has 1,500 plants.

In red, President Garfield is his reliance, and he grows 1,000 plants of this sort.

Of pink sorts he grows 500 plants of Tidal Wave and 1,000 plants of a variety known around Chicago as "Anthony's Pink." The last named carnation was received by Mr. Anthony some years ago from an eastern florist under the label, "Queen of the Whites." And from this one plant has been grown the stocks held by Chicago growers. When flowers were sent to the party from whom the "Queen of the Whites" were obtained, he was unable to name it. And for the lack of its real name it has been called "Anthony's Pink." This seems to be a case for the American Carnation Society to look into.

Mr. Fuller's soil is a loamy clay, and he uses the same soil for his carnations that he does for his roses.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Forcing Roses. First-Class.

ALL IN 4-INCH POTS.

American Beauty, Mrs. Jno. Laing, Magna Charta, Paul Neyron, Gen. Washington, Wootton, Capt. Christy, $10.00 per 100; $95.00 per 1000.

Duchess of Albany, Perle, Niphetos, Bride, Sunset, Souv. d'un Ami, Watteville, C. Soupert, Papa Gontier, La France and Luciole, $8.00 per 100; $75.00 per 1000.

We have lots of Roses in 2½-inch pots, **well grown, at 3 cts.** Send us $3.25 for a sample hundred of these, all labeled, **free by mail.**

WILSON BROS., Springfield, Ohio.

WABAN ROSE. Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants for immediate planting, price $20 00 per hundred.

WABAN ROSE CONSERVATORIES,

Edmund M. Wood & Co., NATICK, MASS.

Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Bon Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000.

TEA ROSES, 30 sorts, from open ground, extra strong, $4.00 per 100.

HERMOSA, strong plants, $6 00 per 100.

HYBRID PERPETUAL, sorts including JACKS, 2 years old, extra strong, $10.00 per 100.

SMILAX. Good strong plants, $2.50 per 100; $20.00 per 1,000.

WOOD BROTHERS,

FISHKILL, N. Y.

Mention American Florist.

KAE SHEAN CO.,

Growers of CHINESE SACRED LILY,

HONG KONG.

Goods can be obtained at the following houses:
John L Childs Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F R Pierson..... Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN. CONN.

LILY OF THE VALLEY PIPS.

100,000 Berlin, extra selected quality, offered for sale, to arrive in quantities per case to suit, at $9.00 1000.

Special prices to the trade, as to quantity.

C. C. ABEL & CO., New York.

WE CAN NOW SUPPLY

VOLUME 6

—OF THE—

AMERICAN FLORIST

Bound in Half Leather.

PRICE $3.00 POSTPAID, OR $2.50 BY EXPRESS NOT PREPAID.

AMERICAN FLORIST CO.

54 La Salle Street, CHICAGO.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

ROSES.

Very fine plants of the following varieties from 3-inch pots, purchaser's selection, $8 per 100; our selection, $7 per 100.

Andre Schwartz,	Madam de Watteville,
Arch Duke Charles,	Madam Lambard,
Adam,	Marechal Niel,
Adrienne Christophle,	Madam de Vatry,
Bon Silene,	Papa Gontier.
Cels,	Queen's Scarlet,
Charles Rivolli,	Safrano,
Duchess de Brabrant,	Sprunt,
Lucullus,	Souvenir d'un Ami,
Louis Phillippe,	White Daily.

Send for Wholesale price list, now ready.

MICHEL PLANT AND SEED CO.

St. Louis, Mo.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.

ROSES.

H. P., MOSS, AND YELLOW, leading varieties, very strong plants, and a large quantity of Anemone Japonica, white, which are offered at low prices.

GEO. MOULSON & SON,

Union Nurseries, ROCHESTER, N. Y.

Mention American Florist

CARNATION

GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "**DORINDA,**" a seedling of 1888—one of the best.

Catalogue will be ready Dec. 10, '91. Send for it.

R. T. LOMBARD,

WAYLAND, MASS.

Field-Grown

CARNATIONS

Hinze's White, Garfield, Portia.

Very strong plants, in bud and bloom, $8.00 per hundred.

L. HEINL, Terre Haute, Ind.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies Etc., Etc. For prices examine Wholesale Catalogue.

Address with business card

136 & 138 West 24th Street,

STATION E. NEW YORK.

JAPANESE PLANTS

Trees, Shrubs, Bulbs, Seeds, Etc.

SEND IN YOUR ORDERS NOW, for

Lilium Auratum, Rubrum, Longiflorum, Etc.

Cycas Revoluta at **greatly reduced prices.**

Camellias in all colors, **MAGNOLIAS, TREE PAEONIES, MAPLES, Etc.**

Give us a trial, we can supply you with all Plants and Seeds, and can pack safely to any part of the world.

F. GONZALEZ & CO.,

303 to 312 Wayne St. & Crescent Ave., SAN FRANCISCO, CAL.

C. C. ABEL & CO., New York, Agents for

C. G. VAN TUBERGEN, Jr., Florist and Seedsman, **Haarlem, Holland.**

V. LEMOINE & SON, Florists, New Varieties of Plants a Specialty, **Nancy, France.**

FRANCIS REBUFA, Roman Hyacinths and other Bulbs, **Ollioules, France.**

ERNST RIEMSCHNEIDER, Lily of the Valley a Specialty, **Hamburg, Germany.**

PIERRE SEBIRE & SONS, Nurserymen and Florists, **Ussy, France.**

G. BENARD, Rose and Nursery stock, **Orleans, France.**

Catalogues free on application, when received for distribution. All orders for these houses should be addressed to **C. C. ABEL & CO.,** 15 to 25 WHITEHALL ST., P. O. Box 920 NEW YORK.

GLADIOLUS BULBS.

Over 100 named varieties and many fine seedlings all mixed together. The quality of this collection has not been lowered by having the best sold under name or color. Several new named sorts have been added this year, and thousands of the least desirable have been destroyed.

FIRST SIZE, $10.00 per 1000

SECOND SIZE, 7.50 "

M. CRAWFORD, Cuyahoga Falls, O.

Mention American Florist

J. A. De Veer,

154 East 34th St., NEW YORK,

Importer and Dealer in

Bulbs, Seeds, Plants

AND FLORISTS' SUPPLIES.

CATALOGUE FREE TO APPLICANTS.

The Cultivation of Mushrooms.

The following standard works will be sent post free on receipt of price:

MUSHROOM CULTURE Robinson. $.50
MUSHROOMS—How to Grow Them. Falconer. 1.35
MUSHROOMS FOR THE MILLION, 16 pages. Free.

JOHN GARDINER & CO.,

Seed and Bulb Growers, Importers and Dealers,

Philadelphia, Pa., U. S. A.

Dyed Immortelles.

Wholesale Florists and Dealers in Immortelles will find great advantages in purchasing this stock from us.

Our dyeing is done by the latest method. Samples and price list free on application.

ALPHONSE ROCHE,

OLLIOULES, (var.) FRANCE.

PANCRATIUM CARIBBAEUM.

(The Great Spider Lily.)



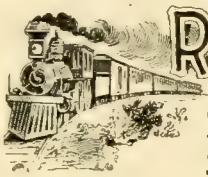
This was one of the best selling novelties last season, and not only sold, but gave **SATISFACTION** to the purchasers. Thousands of bulbs have bloomed freely in all parts of the country. Every **LIVE FLORIST** will catalogue it this season, and to meet the popular demand we have secured 250,000 bulbs of blooming size.

We offer these at $3.00 per 100; $22.50 per 1000, packed and delivered f. o. b.

We also have a few bulbs of the **CRINUM NOBILE** that great average over 2 lbs. weight, at $35 per 100, and some fine **CRINUM AMERICANUM** at $7 per 100. These bulbs are all first quality and size. Order now, and be in time to insure your supply.

THE AMERICAN EXOTIC NURSERIES,

R. D. HOYT, Manager, SEVEN OAKS, FLORIDA.



READY · THIS · WEEK

CHINESE NARCISSUS.
BOUQUET GREEN.
L. AURATUM and RUBRUM
SPIRÆA JAPONICA.
Order Holly and Green now.



J. C. VAUGHAN CHICAGO

CHRISTMAS ROSES.

THE LARGE WHITE FLOWERING VARIETY.

Orders are now booked for fall delivery. Having the largest home-grown stock in the world, and in splendid condition, I can do them well. Last year the large size produced over seventy flowers. For several years they have given the greatest satisfaction to my customers.

Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
2nd size	14.00	"	115.00	"
3rd size	10.00	"	72.00	"
4th size	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000)	2.50	"	23.00	"

Unknown correspondents are requested to add cash or good European references with the orders Orders can be executed at once. Special prices for bulbs and plants on application.

HERMAN BUDDENBORG, BULB GROWER,

Hillegom, = = Holland.

THE BERLIN LILY OF THE VALLEY PIPS

we sell are of exceptionally rooty growth, thoroughly matured and capable of early forcing, they will arrive during November. We have in transit 100,000 above orders in hand, and we would like to place them in lots of 1,000 each, at $10.00 per 1,000, with one hundred growers who have not heretofore used **OURS,** that they may compare their quality, and know with whom to contract next year, for their full supply.

Z. DE FOREST ELY & CO.,

Wholesale Importers of Bulbs and Seed Growers,

1301 & 1303 Market St., PHILADELPHIA, PA.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

Address **EDENWALD, FLORIST,**

Hempstead, Long Island, for

Smilax, 6 to 7 feet, ready now, 15 cts. per string. Cyclamen persicum, 4-in., budding, per doz. $1.50. Vincas, green and variegated, per 100, $1.00.

SEA PINKS (Armeria Laucheana).

Very fine, good sized plants, $5.00 per hundred; $35.00 per thousand.

Send for list of other HARDY PINKS.

THADDEUS HALE,

SOUTH BYFIELD, MASS.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

News Notes.

GALESBURG, ILL.—Pillsbury & Gesler are building a new house 80x20, to be used mainly for growing cut flowers.

SAN FRANCISCO.—The chrysanthemum show of the California State Floral Society, October 28 to 30, was very successful.

COLUMBUS, OHIO.—At the October meeting of the Horticultural Society, Prof. F. M. Webster delivered a most interesting address on parasitism.

LAWRENCE, KANS.—Mrs. P. R. Brooks will give an exhibition of chrysanthemums and other flowers and plants the 11th, 12th and 13th insts.

LITTLE ROCK, ARK.—The project of a chrysanthemum show has been abandoned for this year. Hope one will materialize O K for next autumn.

PUEBLO, COLO.—Willam Clark, the Colorado Springs florist, has opened a cut flower store at 116 Central Block in this city. Frank Hayden is manager.

SAGINAW, MICH.—Florists A. Grohman & Son, Mrs. George Waldbauer, and J. B. Goetz will give a chrysanthemum show at Arbeiter Hall the 11th to the 14th insts., inclusive.

PUEBLO, COLO.—The Pueblo District Horticultural Society will give its first annual chrysanthemum show November 17 and 18. The prizes offered are mainly diplomas. The exhibition will be held in the Board of Trade building. Mr. E. Brayton is secretary of the society.

TOLEDO, OHIO.—Mr. Edward Salyer, foreman at George A. Heinl's, will leave Toledo early in November to accept a position with Nathan Smith & Son, at Adrian, Mich. During his stay in Toledo Mr. Salyer has made many friends, who greatly regret his departure from the city, and all join in wishing him every success in his new position.

Scented Tuberous Begonias.

I notice in the FLORIST a number of articles devoted to the tuberous begonia, but have not yet noticed any mention of perfumed or scented varieties. I have been experimenting with tuberous begonias ever since their first introduction and two years ago I produced a scented variety. Is this rare or uncommon? The perfume of mine is identical with that of a Marechal Niel rose, though perhaps not quite so strong. FRED MITCHELL.

Innerkip, Ontario.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

WANTED.

FEW GOOD PLANTS OF

ACACIA PUBESCENS.

Address L. F. care American Florist.

PANSIES. PANSIES.

200,000 plants of the Jennings strain now ready, 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies A No. 1 in every respect. Large flowering, fine colors and fine stocky plants. Seed 50 cts. and $1.00 per packet.

All sizes in Pansies, flowering plants same price, but must be sent by express. Yellow can be had separate from mixed.

ADDRESS E. B. JENNINGS, Pansy Grower,
Box 76. SOUTHPORT, CONN.

HYDRANGEA PANICULATA GRANDIFLORA

Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine	$5.00	per 100;	$40.00	per 1000
TWO YEARS, 18x24 inches, fine	6.00	"	50.00	"
TWO YEARS, Extra selected, 2½x3 feet, strong	7.00	"	60.00	"
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00	"	70.00	"

Packed in best manner and delivered to Express or R. R. free of charge. Orders Solicited.

ADDRESS THE DINGEE & CONARD CO.,
West Grove, Pa.

CARNATION BLOOMS.

IN FANCY COLORS—LONG STEMS.

I solicit standing orders from florists and others throughout the country, as I make a specialty of shipping them long distances safely by express.

CHAS. T. STARR, Florist, Avondale, Chester Co., Pa.

P. S.—A few large field plants of Golden Gate and Wm. F. Dreer still on hand which I will sell at $8.00 per 100.

AUCTION SALES
OF
Plants and Bulbs
BY
Messrs. Wm. Elliott & Sons,
COME OFF EVERY
Tuesday AND Friday,
AS USUAL, AT THEIR SALESROOMS,
54 & 56 Dey St., NEW YORK,
AT 11 O'CLOCK.

Catalogues mailed to applicants.

WM. ELLIOTT, Auctioneer,
54 & 56 Dey Street, NEW YORK.

ORCHIDS.

THE FINEST STOCK IN THE WORLD.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

CATTLEYA PERCIVALIANA.

A fine consignment of this beautiful winter-blooming Cattleya just to hand. Plants have arrived in excellent condition. Also an immense stock of well established Orchids at very low prices. Write for price list.

FREDERICK MAU,
P. O. Box 322 SOUTH ORANGE, N. J.

100 FOR $25.00.

Orchids.

BRACKENRIDGE & CO.,
Established 1864. Govanstown, Md.

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
SMILAX, 2½ inch pots	$1.50	$12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CARNATIONS, field-grown	6.00	

Address J. G. Burrow,
FISHKILL, N. Y.

CYCAS REVOLUTA STEMS



by weight, roots and fronds cut off. For these we book orders at EXTRA FAVORABLE RATES up to

NOVEMBER 20TH,

in small or large quantity.

THE TRUE LONG-LEAVED VARIETY,

in sizes from 3—4 inch to 4—6 feet. We imported past season over 30,0 o lbs., and can refer to some of the best known firms in the U. S. as to satisfactory results.

Remember a Cycas is a safe investment.

ALSO ORDERS TAKEN FOR

RHAPIS FLABELLIFORMIS.

Can send you all safely by freight. Full information as to prices, time of delivery, freight rates, etc given on application. SEND FOR CATALOGUE.

Send orders to

H. H. BERGER & CO.
SAN FRANCISCO, CAL.

Cycas Revoluta.

EXTRA FINE STEMS, ROOTS AND FRONDS CUT OFF.

VERY BEST LONG LEAVED VARIETY,

from 6 inches to 6 feet, per lb. 10c.
Discount on large orders.

CYCAS CIRCINALIS by January, '92. Price on application. MYRICA RUBRA SEED.

Rhapis flabelliformis, 25c. to 45c. per shoot.

FELIX GONZALEZ & CO.,
303 to 312 Wayne Street, SAN FRANCISCO, CAL.

Clematis. Roses.

H. P. and Monthly, both pot and outdoor grown, good assortment, own roots, fine plants.

CLEMATIS, fine, well grown plants in choice assortment. Plenty of Jackmanii.

Prices very low, on application.

F. A. BALLER, BLOOMINGTON, ILL.

FERNS. FERNS.

We offer well established in 2½-inch pots, at

$3.00 PER 100.

Adiantum cuneatum, Anemia phylisus,
Adiantum pubescens, Onychium japonicum,
Pteris serrulata.

JOSEPH KIFT, West Chester, Pa.

FIELD GROWN CARNATIONS.

L. L. LAMBORN,

Only $5.00 per 100.

A. F. PRINCE, HINCKLEY, ILL.

Fresh Palm Seeds.

We have just received from New South Wales, a large consignment of the following Palm Seeds; they are in splendid condition, and some are already germinated. Orders will be filled in strict rotation until stock is exhausted:

	Per 100
ARECA BAUERI	$ 1.50
KENTIA BELMOREANA	2.25
KENTIA CANTERBURIANA	5.50
KENTIA FORSTERIANA	2.25
KENTIA MOOREI (very rare)	6.00
PTYCHOSPERMA ALEXANDRÆ	1.00
SEAFORTHIA ELEGANS	1.00

We have also a large consignment from Central America, the West Indies, and Keys of South Florida.

	Per 100
ACROCOMIA HAVANENSIS	$ 6.00
CARYOTA URENS	.75
COCOS ALPHONSII	1.75
LATANIA BORBONICA	per lb. 50c.
LIVISTONA ALTISSIMA	2.00
OREODOXA REGIA	.25
PANDANUS UTILIS	1.00
THRINAX ARGENTEA	.30
THRINAX PARVIFLORA	.25
SABAL PALMETTO	.25

The above prices include packing and postage, seeds ordered by the 1000, to be sent by express, will be subject to 15% discount.

Terms, cash with order.

THE AMERICAN EXOTIC NURSERIES,
R. D. HOYT, Manager,
SEVEN OAKS, FLORIDA.

PALMS AND FERNS

Well grown Specimen Plants, fit for immediate use.

	Each.
KENTIA, 3 to 3½ ft. high, 6-inch pots, 7 to 8 leaves	$2.50
do 2 to 2½ ft. high, 5-inch pots, 5 to 6 leaves	1.50
do 1½ to 2 ft. high, 4-inch pots, 3 to 4 leaves	1.00
COCOS WED. 2 to 2½ ft. high, 6 to 8 leaves	2.00
LATANIA BOR. 2½ feet high, 6 to 8 leaves	1.00
PANDANUS VEITCHII, 2 to 2½ ft. 6-in. pots	2.00

FERNS—Well grown plants in 3 in. pots, for fern dishes, etc., in following varieties:

Pteris Hastata, Sieboldi, Cretica and Alba Lineata, Davallia Stricta and Fijiensis, Lastrea Leptophyllum, Polypodium, Blechnum and Polystichum, assorted, at $10.00 per 100.

E. W. WEIMAR, Mt. Vernon, N. Y.

Two Superb Plants.

ANTHURIUM SCHERTZERIANUM (Flamingo Flower.)

A grand scarlet flower of great substance and durability; when cut will last for weeks; long stems; grown easily as a calla. Two year old seedlings from one of the finest varieties in Europe, will bloom this winter.

3½-inch pots, Dozen, $6; 100, $40.
Extra strong plants, $1 to $50 each.

ASPARAGUS PLUMOSUS NANUS.

This elegant plant has no rival for cutting. Strong, in 3½ inch pots, per 100 $4.00.

12 HANDSOME PLANTS for DECORATION at ONCE, $6:

ARECAS, COCOS, DRACÆNAS, ASPIDISTRA, Etc., Etc.

in 5 & 6-inch pots, 1 to 2½ feet, according to sort.

F. O. B. same day as order received.

JOHN H. LEY,
TROPICAL NURSERIES,
ANACOSTIA, WASHINGTON, D. C.

PANSIES ONLY.

The Greatest Collection ever offered, including all the Latest Novelties. Our Seed is Warranted to be Fresh, Pure and Strictly First-class. Send for new circular and price list to the trade.

ALBERT BENZ, Douglaston, N. Y.

ROOTED CUTTINGS.

CARNATIONS AND OTHER STOCK.

I will devote some 30,000 feet of glass to Carnations this season, and will give my whole time and attention to the getting out of strictly first class cuttings.

Of the three best Novelties of last season (**GOLDEN GATE, HECTOR** and **LIZZIE McGOWAN**) I have an extra large stock, and in the best of condition.

My Miscellaneous Stock will occupy some 7,000 feet of glass and consist of **GERANIUMS, FUCHSIAS, COLEUS, ETC.** It will be grown for me by Mr. D. K. Herr, and gotten up in better shape than if I were to grow both these and Carnations myself.

Give me a chance to figure on your orders. List on application. Satisfaction assured.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.



PALMS and DECORATIVE PLANTS

ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

PANSIES OF THE BEST STRAINS.

$5 per 1000 by Express; 75 cts. per 100 by Mail. CASH WITH ORDER.

NOTE.—That my Specialties for the coming season are best varieties of

CARNATIONS, COLEUS, GERANIUMS. FIRST-CLASS ROOTED CUTTINGS.

Descriptive Trade List ready in November. Send for it.

ALEX. McBRIDE, - Alplaus, N. Y.

4,000 Adiantum Cuneatum, 6-in. pots, $35 per hundred.

15,000 Chrysanthemums, fine plants.

Rooted Cuttings of Roses, Carnations, Violets, Geraniums, Chrysanthemums, Coleus, Alternantheras in all the leading varieties.

10,000 Rose plants, prices on application.

A. N. PIERSON, Cromwell, Conn.

OUR TRADE CATALOGUE
—OF—

Rare Florida Flowers AND FRUITS

Has been mailed to every name in the Directory of Florists. If you have not received one, send us a postal card AT ONCE. We are offering AT BED ROCK PRICES a choice variety of Seeds, Plants and Bulbs most desirable for catalogue trade and for cut flower growers and decorators. Seeds and plants of rare **WATER LILIES** and other choice aquatics.

Ferns, Zamia integrifolia, Amaryllis, Crinums, Hymenocallis (Spider Lily), **Orchids and Air-Plants, Hardy Orange, Canna flaccida, New Hardy Tuberous-rooted Ipomæa, Tropical and Semi-Tropical Fruits,** ETC., ETC.

We are offering **SPANISH DAGGER** (Yucca aloifolia) canes which soon make grand decorative specimens, such as it would require years to grow from small plants. They make fine companions for Palms, Tree Ferns, etc.

PIKE & ELLSWORTH,
PASCO CO., JESSAMINE, FLA.
Mention American Florist.

Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10 00 each. Cycas revoluta, 50c to $5.00 and $15 00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII, DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots strong, 15 to 18 inches $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

PRIMULAS.

	Per 100
Chinensis, single white and pink, 2-inch	$4 00
" single white and pink, 4-inch, fine	6 00
Obconica, 3½-inch	5 00
Floribunda 2-inch	4 00
Begonia Rubra and Metallica	4 00
" Rex	5 00
" Rex Lucy Closson, 2-inch	10 00
Hydrangeas Red Branched, 4-inch	20 00
" Thos. Hogg and Otaksa, 4-inch	15 00

Sold out of Violets.

I. N. KRAMER & SON, Marion, Iowa.

ROOTED CUTTINGS

PETUNIA.

Double Fringed.

5 best sorts, by mail $1.00 per hundred; by express, $8.00 per 1000.

VERBENA—Mammoth.

15 sorts, by mail, 65c. per 100; by express, $5.00 per 1000.

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77. *UPPER SANDUSKY, OHIO.*
Mention American Florist.

YOU CAN'T AFFORD TO DO WITHOUT THE SNOWFLAKE DAISY

DON'T depend on us for the cut flowers every flower we can cut is sold now, and as many more if we could get them; there is and will be a pressing demand for this inimitable flower; a few hundred pot plants still on hand, 3-inch, $5 00; 2-inch, $3 00 per 100 **5 000** clean, thrifty plants in fists coming into bud and blooming, $2 50 per 100; $20.00 per 1000, (no more clumps) 1000 Bouvardia Davidsoni, 200 Mrs. Cleveland, (crimson), 200 Multiflora Pinks, $2 00 per 100. Variegated Vincas field grown 5 to 10 vines, 4 feet, $6 00 per 100; 3 to 5 vines $4 00 per 100. Eulalia Zebrina and Japonica, fine stock, first size $10 0 ; 2d size $8 00 per 100. Chrysanthemums, finest vars., 4-inch, $1.50, 6-inch, $2, 7-inch, $3, 8-inch $5 per doz ; also **Cut Blooms** at 40-50c per 100, all colors. A few thousand 2d c ass mixed Freesia bulbs, 25c. per 100; $2 per 1000 Early flowering Moonvines, 2-in. $3 00 per 100 No risk; satisfaction guaranteed or money refunded.

J. C. GIBSON. WOODBURY, N. J.
Mention American Florist

DO YOU USE ROOTED CUTTINGS?

If so, send for my price list of CHRYSANTHS, COLEUS, FUCHSIAS and GERANIUMS.

S. B. FIELD, Roselle, N. J.

Woes of the Catalogue Man.

A reader sends us the letter that appears below, and writes: "Pity the poor fellow who has customers like this to satisfy."

"Oct the 30 1891 Deare Sir

I rite you a few lines to get yure Price one a few Plants, all redy Rooted What you price will be on these. if you are not too deare. I Will send for moore. and I can get you good menny orders for yure plants heare. they all say they will wait and see mine first. I Will rite What kind I want and I want you to tell me what they will cost me. I want you to let me have them as cheap as you can and if they are not to huy I will send for moore and get you all the orders that I can.

rite at once and let me no what you can do

these are What I want now

one Dubble Red tea Rose one Dubble yellow tea Rose one Dubble Red fusa to of the best wax Plants that you have got ones that has Dubbel flowrs an to colars of these to best lilies to colors Dubbel if you have I want them that has the largest flowers. I don't want the small kind of Plants. if you do rite buy me I will buy you."

Transatlantic Wit.

Bill B—— was a bothy poet. Parodies were his great hold, and his bothy mates thought him very clever.

One day some boiled salt beef was the dinner fare, and it proved to be unmercifully tough. Bill tried a bite and was mastered. His mates saw from his countenance that something was coming, and they had not long to wait before Bill, with tragic voice and gesture, burst forth thus:

"Old horse, old horse, what brought ye here,
Ye've carted stones for many a year;
Worn out at last by sore abuse,
Ye've been salted doon for bothy use."

Dove Manure

Will some reader of the FLORIST enlighten me as to the best way of applying dove manure, and what plants it would best suit? I am where I can get it in large quantities, but am unfamiliar with its value as a fertilizer. I grow roses and carnations, principally for the wholesale trade. B. W. SMITH.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA

GEO. W. MILLER,

WHOLESALE FLORIST,

1748 N. Halsted Street,

Chicago, Ill.

ROSES AND PALMS A SPECIALTY.

FLORAL DESIGNS.

The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address (with $3.50 for the book)

J. HORACE McFARLAND,

Box 655, HARRISBURG, PA.

THE TRUE

HYDRANGEA

RAMULIS COCCINEA.

Strong one year old plants from open ground.

$3 to $4 per Dozen; $25 to $30 per 100.

J. B. KELLER, FLORIST,

Rochester, N. Y.

ENGLISH BEGONIAS.

The unrivaled plant for Bedding as well as for Glass.

BOX'S CHOICE HYBRIDS are best wherever tried. H. C. Merriam, Esq., of Salem, writes to J. R. B. on 29th Sept., 1891: "I wish to express my delight in the Begonias you supplied to a firm of florists here, from which I have added many to my own collection, they are finer than any named varieties I have seen." The Elyria Weekly *Republic* of Ohio, reporting the display of Begonias and Gloxinias (supplied by J. R. B.) at Copes & Son's greenhouses says: "They are enthusiastically admired by all lovers of choice plants." Mrs. Parks Foster asserts "that for a brilliant mass of bloom they excel anything of the kind she saw in Europe, where they make a specialty of these favorite flowers. The shades of color are gorgeous and most brilliant."

BEGONIA TUBERS ready for dispatch in November, the cheapest as well as the best on market.

Singles, BOX'S CHOICE HYBRIDS, all colors mixed, 1st size, $4.50 per 100; 2nd size, $4 00 per 100.
Singles, BOX'S CHOICE HYBRIDS, in separate colors, viz: Crimson, Scarlet, Rosy Pink, White, Yellow, and Golden Orange; these 6 choice varieties assorted or separate, $5.50 per 100.
The same, extra selected for pot work, $8.00 per 100.
Doubles, BOX'S CHOICE HYBRIDS, mixed colors, 1st size, $12.50 per 100; 2nd size, $10.00 per 100.
Doubles, BOX'S CHOICE HYBRIDS, in 6 separate colors, $16.50 per 100; extra selected, $3.00 per 10.

BEGONIA SEED. The quality of Box's seed is far ahead of others, buyers discard other strains. J. R. B. has already booked orders for nearly $500 worth for November delivery. You can have packets of fixed quantities, mixed or in 6 separate colors, of either double or single, at 1, 2, or 5 dollars per packet. With this seed you can "get in" to advantage and raise thousands of tubers next season. An Indiana grower sends this line: "I have raised some grand Begonias from your seed."

BOX'S OTHER SPECIALTIES are GLOXINIAS, splendid mixed colors, chiefly spotted, $6 per 100; seed, $1 per packet. CALADIUMS, named sorts, $4 per 10. Achimenes $1 per 100. **MY ANNOUNCEMENT** on Begonias in the *Horticultural Advertiser* was posted on July 1st to 5 000 American florists—refer to page 5.

N. B.—Orders must all be prepaid and shipping cost covered. If you state your wants and leave selection to me I will give you full value for 5, 10, 20, 100 or more dollars and ship promptly. Catalogues free. Address **JOHN R. BOX, Begonia Grower, CROYDON, ENGLAND.**

DO YOU NEED

Straw Mats, best, heavy, hand-made, 6x6 feet, each $1.50.
Plant Stakes, Hardwood, unpainted, 28-inches, per 100, 30c.; per 1000, $2.50.
" " " " 36-inches, " 40c.; " 3.50.
Bone Flour, best, free from acid; for bench crops and potting. 25 lbs. $1.00; 100 lbs. $2.75; in barrels, 2¼ cts. per pound.
Best Guano, 20 lbs. $1; 100 lbs. $4; bag $7.50. **Tobacco Dust,** 5 lbs. 30c.; 100 lbs. $4.50.
Florists' Wire, No. 24, per stone, $1.10; No. 26 $1.20.
Tinfoil, per lb. 15 cts. **Labels,** all sizes, cheap.
Choice New Seeds—**Cyclamen grandiflorum,** pkts., about 50 seeds, 40c. **Primulas,** all the very best sorts, pkts., 40c. **Bugnots own-saved Pansy,** pkts., about 90 seeds, 40c.
☞ **NEW SEEDS** of choice strains of flowers arriving daily.

R. & J. FARQUHAR & CO.,

10 and 19 S. Market St., BOSTON.

Tuberous Begonias.

Splendid strain, extra fine habit, perfect flowers, unrivaled for variety and brilliancy of colors.

TUBERS, per 100, 1000, or 10,000, offered by

ZOCHER & CO., Haarlem, Holland.

FOR SALE. PELARGONIUMS, from 4 in. pots, $10 00 per hundred. SANSEVEIRA, from 5 inch pots, $3.00 per dozen.

M. PHILLIPS, Dallas, Texas.

FLORISTS

please place your orders for

Wild Smilax, Pines and Palms,

for Decorations, early with

A. C. OELSCHIG,

SAVANNAH, GA.

TOBACCO STEMS IN ANY QUANTITY

at $1.00 per 100 lbs.

WISCONSIN FLOWER EXCHANGE,

131 Mason Street, Milwaukee, Wis.

SPECIAL OFFER.
CLEMATIS.

HOME GROWN ON OWN ROOTS.	Per 100
JACKMANNI, 2 years,	$25.00
HENRYII, "	25.00
FLAMULA, 3 years,	5.00
" 1 year,	3.00
VITICELLA, 3 years,	5.00
" 1 year,	3.00

AMPELOPSIS.

VEITCHII, from 4-inch pots,	8.00
" field-grown, 2 years,	8.00
" " " 1 year.	4.00

ROSES—On Own Roots.

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The pretty florist noted that though he invested his nickel almost as regularly as the morning came around he never wore a button-hole bouquet. He always hid away his purchase in his shabby old hat and crept out of the store as if he was ashamed of his extravagance in decorative purposes. One day she asked him if he would like a pin with which to fix his flower to his coat.

"Oh, dear, no, miss," was his reply. "You are very kind, but I don't wear things of this sort. Nor would a pin be of much service in fixing the flower on the grave upon which I lay it."

"Pray, forgive me, sir," interposed the young lady, as a shade of pain flitted across her bright face; "pray forgive me. I had no idea that the flowers were used for such a sad purpose."

"Oh, that's all right, young lady. You haven't hurt my feelings in the least. The flowers I buy are tokens of sympathy rather than emblems of regret."

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"You don't seem to catch on," said the man. "Well, I'll explain. These flowers are to be laid upon the grave of a man whom I never saw and did not hear of until after his death. But there is a bond of sympathy which binds his memory to my life. I know he suffered as I have suffered, and from the same cause, and I never lay a little blossom on his tomb without feeling that I am paying my silent homage to the heroic fortitude with which, for twenty years, he bore up under that affliction to which I succeeded as his sole heir and residuary legatee."

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ESTABLISHED. 1866.

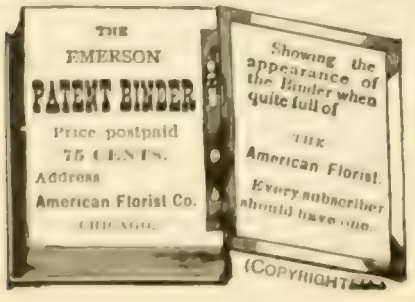
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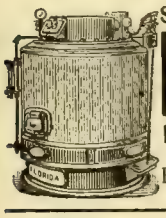
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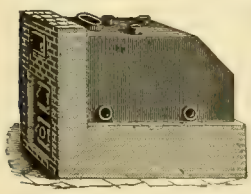
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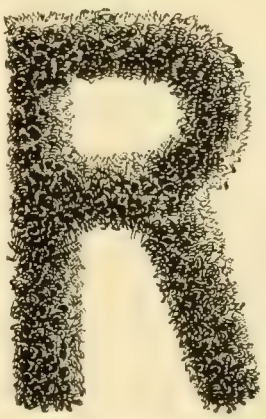


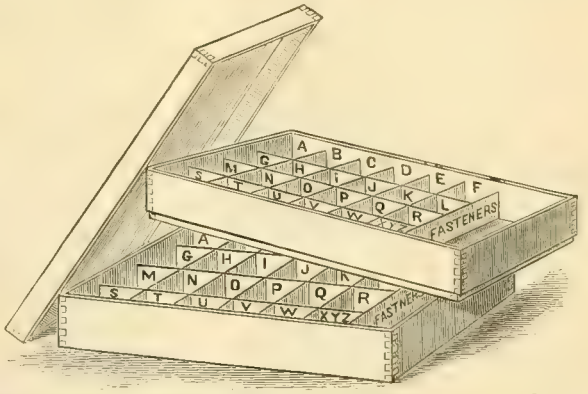
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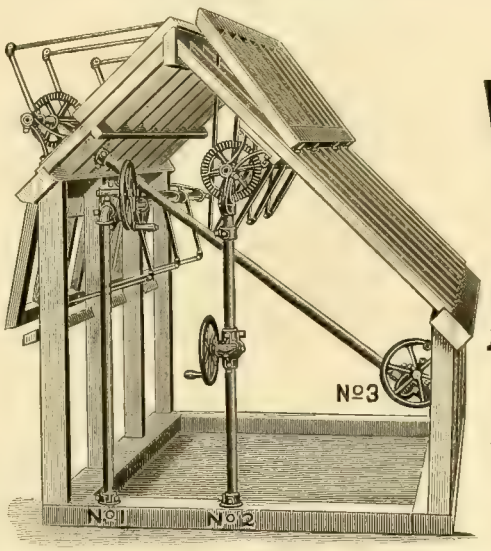


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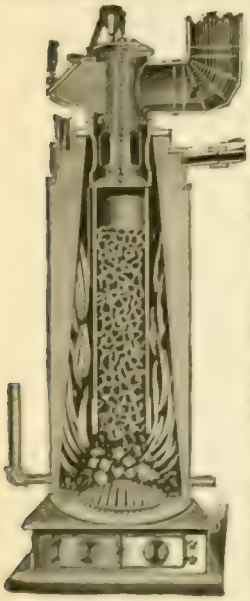
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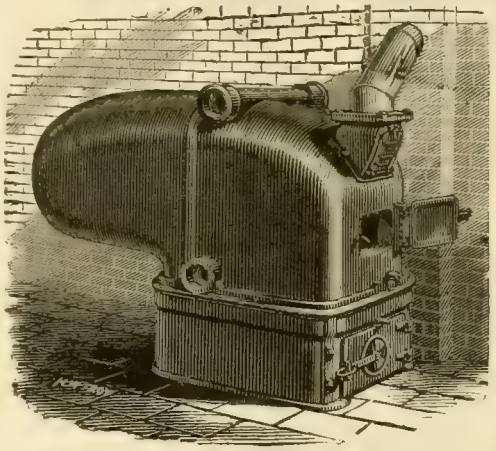
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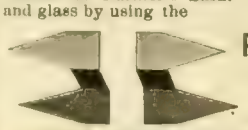


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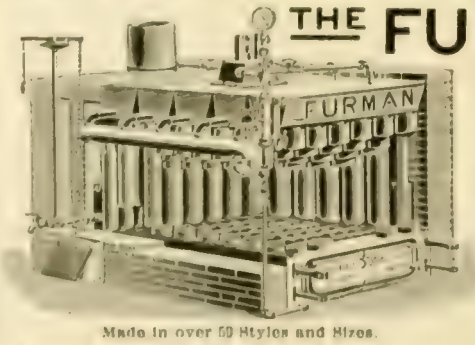
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CHRYSANTHEMUM flowers grown by experts near cities where they are shown have lately been exhibited in the name of growers a thousand miles away. If this practice is to prevail it should be fairly understood, to put all exhibitors on an equal footing. Why not have one expert near all large cities to grow all show flowers for outside exhibitors?

A LARGE NUMBER of additional show reports will appear in next week's issue.

Chrysanthemum Shows.

Boston.

The annual chrysanthemum show of the Mass. Hort. Society opened at Horticultural Hall, Boston, on November 10. As on previous occasions the upper hall was devoted entirely to the display of plants and the lower to cut flowers. Of disbudded and trained specimen plants there were practically none, and once more the conviction is forced upon us that the Boston growers are not inclined to devote the time and expense necessary to produce such. But the plants shown were healthy and well covered with flowers of good size. They were as a rule superior to those shown here in any former exhibition, and the grouping and massing of color was most effectively done. To some eyes, however, there is a charm about these naturally grown plants with their loose clusters of irregular blossoms and buds which is lacking in the shapely but artificial looking trained specimens, whose regularity of outline and individual perfection of bloom soon become tiresome to the eye, and which in too many cases are made positively hideous by the fearful and wonderful underpinnings and scaffoldings of the professional staker. One class of plants as seen in perfection at this present exhibition is that known as market plants. These low grown tidy little specimens with their abundant foliage and wealth of bloom are particularly attractive and are just the thing for window and hall decoration. The leading premium in the plant section, that for twelve distinct varieties, all classes, was awarded to Walter Hunnewell. These plants were very well grown, and being of various heights made a fine group, the center plant being a remarkably good specimen of Louis Boehmer, 4 to 5 feet across, well furnished with flowers of full size. Arthur Hunnewell took second premium in this class with a fine group, among which were several of the best specimens in the hall, notably W. H. Lincoln, Robt. Bottomly and Pres. Hyde. N. T. Kidder's group was third, the best plants shown here being Puritan and W. H. Lincoln.

The entries for incurved or Chinese classes were few and far between. The Japanese type seems to have captured the growers as well as the public. This is unfortunate, and the best consolation is that without a doubt there will yet be a reaction and the Chinese type will receive that attention to which its superior form entitles it. F. B. Hayes and N. T. Kidder took the best premiums in the Chinese classes.

The competition in the Japanese classes was quite brisk, the honors being divided between Arthur Hunnewell, N. T. Kidder and F. B. Hayes. For specimen trained standard Dr. C. G. Weld took all the prizes. Pompons and anemones are an almost forgotten section, but they have their place and will undoubtedly in time regain a portion of their old popularity. Dr H. P. Walcott's seedling pompon which took the first premium as single specimen was one of the most admirable plants in the exhibition. It was a perfect mound of golden blossoms, backed by clean luxuriant foliage and required no stakes. The plants in 6-inch pots bearing each a single bloom were all very good. Forty plants, not less than twenty varieties, was the number called for and the prizes were awarded to Dr. Weld, J. L. Gardner, Geo. B. Gill and the Bussey Institution respectively. The groups of market plants shown by W. H. Elliott added much to the attractiveness of the show, and their value for hall and window decoration was favorably commented upon. Another valuable addition to the display was the general collection from F. B. Hayes, which filled all of one side of the upper hall.

But it was in the department of cut flowers that this exhibition exceeded all its predecessors and surpassed in quality, by general acknowledgement, all other shows in this country. The uniformly high grade of all the exhibits here and the absence of rubbish was noted by all visitors. There was not a single exhibition board in the hall, nor a short stemmed bloom, everything being shown in vases with stems and foliage. Many of the vases, especially the very large ones, were of the richest material, adding greatly to the general effect. These were generously loaned to the society by Abram French & Co.

The $75 prize offered by the Gardeners' and Florists' Club for ten vases, ten varieties, ten long stemmed blooms of one variety in each vase, was awarded to Galvin Bros. This exhibit cannot be too highly praised, the vases of Mrs. Fottler, Domination, W. H. Lincoln, Pelican and Cullingfordii showing those varieties in wonderful perfection. It would not be a bad idea for the exhibitors, however, to introduce the Mrs. Thos. Mack chrysanthemum to the Nomenclature Committee of the S. A. F. with a diagram of the points of difference between this variety and the one exhibited by them in another stand under the name of L. Canning.

The second premium in this class, $50, was awarded to Mr. Edgar, whose display was also grand, most noticeable being the vases of Gold, Puritan, Rohallion, Cannell and Mrs. Frank Thomson.

The Henderson prize for Louis Boehmer went to Galvin Bros. for a set of six superb blooms. Messrs. Galvin Bros. also won the Bradlee Plate prize for fifty blooms. Here again was shown Mr. Coleman's superiority as a chrysanthemum grower. Ada Spaulding, L. Can-

ning, Ivory, Mrs. Fottler, Pelican, C. W. DePauw and other leading kinds being shown in unequalled perfection.

In the six vase section Lawrence Cotter, gardener to C. V. Whitten, had made up his mind to come out on top, which he did, the varieties shown being Cullingfordii, W. H. Lincoln, Violet Rose, H. E. Widener, Mrs. Alpheus Hardy and Mrs. Wheeler. Wm. Edgar came second, his L. B. Bird and Domination being especially good.

In the twelve bloom and six bloom classes the competition was very large on the Japanese kinds, but small on the Chinese kinds, the winners in the latter being E. A. Wood, J. H. White and C. G. Weld. On twelve blooms, Japanese, Jas. Brydon was first, his best specimens being Edwin Lonsdale, Violet Rose, Domination, H. E. Widener and Sandyside. A. H. Fewkes came next, showing among others Bronze Jewel, Duchess of Connaught and Etoile de Lyon in great form. On six blooms Mr. Fewkes came first and Geo. B. Gill second. The best bloom in Mr. Fewkes' lot was a superb Beacon, and in Mr. Gill's Mrs. Langtry.

In the class calling for a collection of cut blooms of not less than twelve varieties sent out during the current year, the only exhibitors were E. A. Wood and A. H. Fewkes. The former showed 18 and the latter 26 new varieties.

There were a great many seedlings shown, many of them being very promising. The first prize was awarded to Pitcher & Manda for Harry May, which also received a silver medal. The second prize and a silver medal were awarded to H. A. Gane for white seedling Mrs. Jerome Jones, and the third with honorable mention to Geo. B. Gill for Adeline Bradley, color rich coppery yellow. A set of ten superb seedlings of this year by Walter Hunnewell received honorable mention, and one of the number, the Walter Hunnewell, was given a certificate of merit. To Norris F. Comley was given honorable mention for seedling No. 2, a fine promising red. In the exhibit by Jos. H. White there were some very promising seedlings, two of the best being Jos. H. White and Mrs. S. K. Sanford, both white. To the former was awarded a certificate of merit. Other groups of seedlings were shown by Geo. Hollis, F. H. Gifford and C. D. Kingman. The latter received honorable mention for Kildare and Eglantine. Honorable mention was also given to Pitcher & Manda's new Annie Manda. Among the prime attractions of the show were mammoth vases of specimen blooms from E. M. Wood, Jas. Brydon, C. V. Whitten and J. Comley, to all of which were given liberal gratuities.

There was quite a good showing of carnation blooms. H. E. Chitty exhibited L. L. Lamborn and Lizzie McGowan, R. T. Lombard showed Golden Triumph, Edw. Swayne showed Thos. Cartledge, Sewall Fisher showed No. 113, a promising white and got honorable mention for it, L. S. Fife showed white seedling Evangeline, and Jas. Tulis staged a fine exhibit of the best standard varieties.

There was also quite an attractive display of roses. F. R. Pierson, of Tarrytown, N. Y., came with American Beauty, Cusin and Meteor; J. F. Curtis showed Mermets, and E. M. Wood & Co. Meteor, Bride, Mme. de Watteville, Cornelia Cook, Mme. Cusin and Waban. The injustice of recent attacks on the Waban was apparent to all who saw the rose as shown here. Mr. Wood says "don't judge it too hastily, have a little patience." J. H. Dunlop received honorable mention for his sport from Perle des Jardins, "Toronto."

Geo. McWilliam staged a nice group of orchids, among which was a grand plant of Dendrobium formosum giganteum. This plant, which has bloomed seven years successively, bore two spikes of 13 blooms each. In this connection the following extract from the London *Garden* of October 10, page 333, is amusing as well as interesting: "Dendrobium formosum giganteum. The flowers are very fine and five on a scape is as many as I remember to have seen. Within the last two or three years I have seen plants that have done well under cultivation, some two and others three years, whilst one plant I saw last season was flowering for the fifth time in succession."

Philadelphia.

The ninth annual chrysanthemum show opened with great *eclat* on Monday evening at Horticultural Hall, Broad street. It was said last year that for general effectiveness nothing could surpass the efforts made then. The evidences are before us that such was not the case.

Heretofore it was the exhibits in competition which first claimed attention, but now the arrangements for effect first demand notice. The symmetrical specimens of the sweet bay tree (Laurus nobilis) are among the first to be seen. Standing like silent sentinels at the entrance and within the portals, lending an importance to the affair which nothing else could do. The stairway was adorned with gracefully festooned laurel (kalmia) wreathing, hemlock boughs, forest (oak) leaves and bunting.

From the head of the stairway at the entrance to the main hall a very beautiful scene presents itself, the showy coloring of the chrysanthemums, interspersed with graceful and towering palms, gave an enchanting appearance to the whole, which was very satisfying to the beholder.

The management longed for a Madison Square Garden in which to display the plants and flowers. Up to the present time Philadelphia has appeared to be fortunate with a hall in which to hold its semi-annual floral exhibitions; but the exhibition as seen last week in New York has caused a few of the workers here to feel that the Quaker City is not so favored as the Great Gotham now is with her popular and commodious GARDEN, in which to hold its horticultural displays. In this city the show is divided into four parts: The main hall, which contained the groups of specimen plants in competition for the higher prizes, the displays of ferns, palms and other foliage plants, the foyer being occupied by the cut chrysanthemum blooms on tables around the sides, and the three dinner table decorations had possession of the center.

In the lower hall were the standard chrysanthemums and those grown in 6-inch pots, as well as some specimens equal to those in the main hall, as well as those in competition for the *Record* prize, which calls for six naturally grown plants in six varieties. Some of the entries for this premium were disqualified because evidences were apparent that disbudding had been resorted to, even if three or four flowers had been left on each shoot.

On the lower floor another room had to be pressed into service to accommodate the cut flowers, roses, carnations, pansies, etc.

Among the prominent exhibits in this room were magnificent blooms of the roses American Beauty and Meteor, from F. R. Pierson, Tarrytown, N. Y., and a large vase of 50 superior flowers of Perle des Jardins, from James Taplin, Maywood, N. J.

The lighter pink variety of American Beauty, pleasantly referred to by some as the "Wyndmoor Winner," was exhibited by John Burton. This is not supposed to be its real name, but when mentioned it is spoken of in that way in order to convey an idea of its merits. This was equally as worthy of being awarded a silver medal or certificate of merit as any of the chrysanthemums which received one of those distinctions. I venture to predict that Mr. Burton's rose will be known and grown and appreciated long after many of the chrysanthemums which have been so favored with a medal or a certificate are numbered with the missing. This is here noted only in the interest of justice.

The general display of cut roses in competition for the society's regular premiums were fully up to what has been shown here before, and in some cases superior. Hugh Graham's were especially noteworthy. He was awarded first premiums as follows: Bride, Catherine Mermet, American Beauty and La France; to John Burton, for Perle des Jardins, Duchess of Albany, Mme. de Watteville, Cusin, and the *sport* above referred to; Joseph Heacock, first for Niphetos, Papa Gontier, Sunset; 2d, American Beauty, Brides, Mermets, Cusins and Souv. de Wootton; this was in the class "any other variety," Mr. Burton's Watteville taking 1st. Charles E. Meehan was second for Perles and Sunsets; John Burton, 2d for La France.

The cut carnations were also in this room—the ladies' reception-room. Thos. Butler took first premiums for pink carnations with Grace Wilder; this was a fine bunch of flowers, of good color and size. Mr. H. E. Chitty was awarded 2d in this class, with the same variety. For scarlets the order was reversed—Mr. Chitty receiving 1st and Mr. Butler 2d. Both lots were Portia. Mr. Chitty carried off the 1st for whites with L. L. Lamborn; also for striped variety with American Flag.

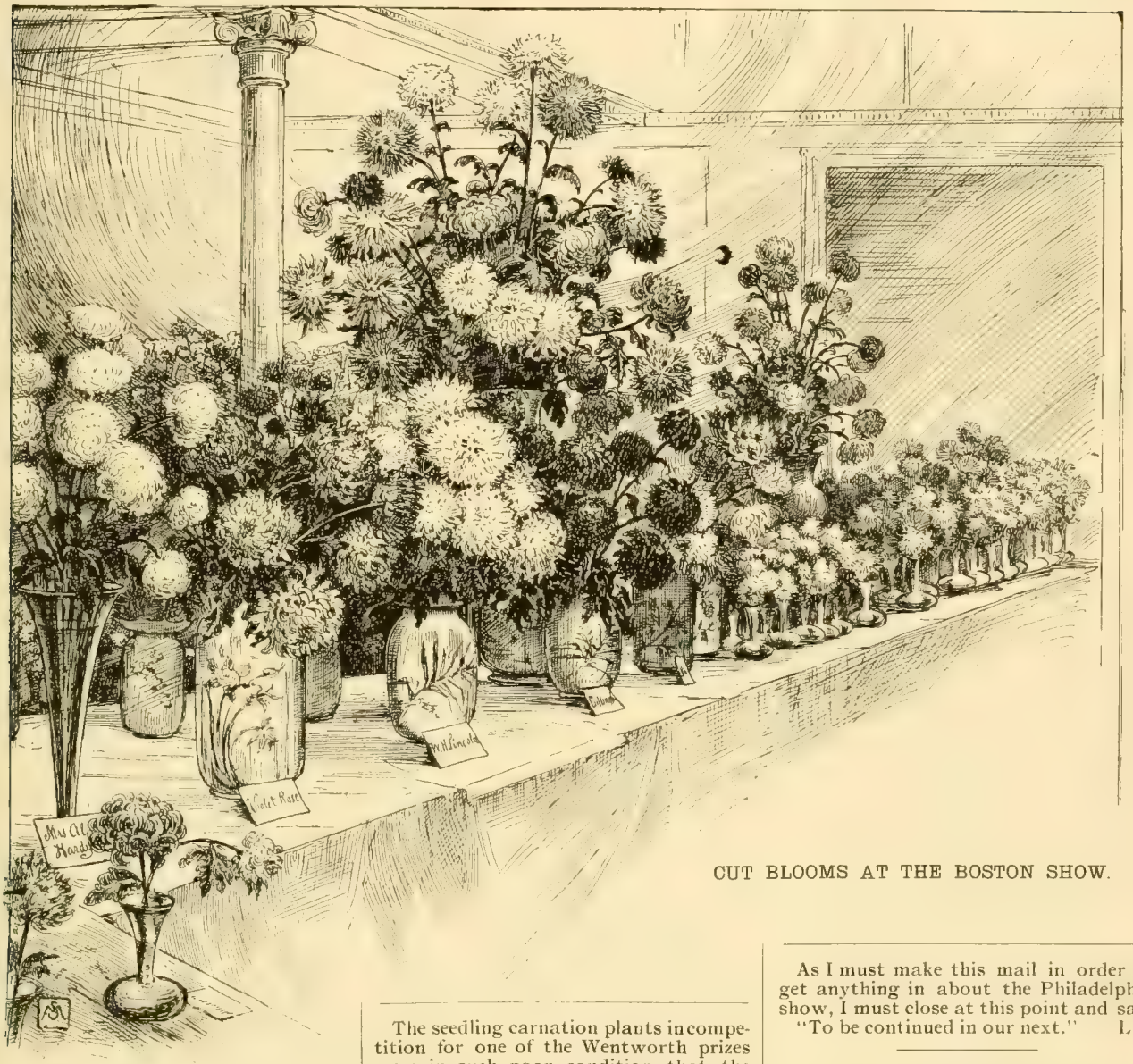
For the "Wentworth prize," donated by Dr. E. H. Williams for the best collection cut blooms, Mr. Chitty was the only competitor. He had a fine lot of all the leading kinds. Mr. J. C. Chambers brought a vase each of his new Grace Darling, a bright, pleasing shade of pink, and Buttercup. Certainly when this old variety comes as it does with Mr. Chambers there is no other in the same line of color to equal it. The flowers were large, of good form and size, and in good color.

It is to be hoped that the Carnation Society will in due time find out why it is that some varieties do well with some people while they are failures with others. Some of our leading horticulturists were at one time successful carnation growers; now they have abandoned their cultivation because with them they are failures. There is a reason for this and it is to be hoped that the cause will be investigated and discovered and a remedy proposed and tested and not found wanting.

There were some seedlings on exhibition from John McGowan, Edwin Lonsdale, J. William Colflesh, Edward Swayne and Isaac Larkin.

The latter had Wanderer, a good white, and Morning Ray, higher in color than Century or Tidal Wave.

Edward Swayne had Aurora (winner of the Ladenburg cup at the New York show); it is a light pink in color and very fragrant; and Pendleton, a darker pink



CUT BLOOMS AT THE BOSTON SHOW.

in color, but a better formed flower, and another, named Thomas Cartledge, is of that darker shade of pink similar to Tidal Wave. I dare not undertake to call those colors by name, besides it is better understood by most florists to compare the colors to well known varieties.

Mr. Colflesh had a very fine new variety which he has distinguished by naming it after his wife. This is pink in color also, but quite distinct from either of the others named. It is darker than Swayne's Aurora, yet it is a pleasing shade and the flowers are larger and spreading. It is likely to become popular. Mrs. Colflesh and Aurora were both awarded certificates of merit.

Mr. A. M. Herr had a good collection on two different days, some fine examples of Golden Gate, Lizzie McGowan, Anna Webb, Ferdinand Marigold, Christmas and some others. What struck me as being remarkable was that varieties like Mangold and Golden Gate, which split their calyx with a good many growers, are perfectly intact in this collection. Mr. Herr expressed himself as believing that the reason of this is because he keeps his plants on the dry side as to water and grows them on a table, under which are steam pipes to furnish bottom heat.

The seedling carnation plants in competition for one of the Wentworth prizes were in such poor condition that the judges refused to notice them. There were two lots in competition, neither of which were considered worthy of mentioning. Mr. John Westcott is emphatic in his declarations that it is the illuminating gas which is at the root of the trouble. The flowers appeared all right when placed in position on the afternoon of the first day, but on the morning of the next when the judges undertook to examine them they appeared as though they wished to take a little nap.

Carnations do not stand well in these large buildings, it appears. It may be that a combination of gas, draughts, etc., will make the holding of an exhibition for carnations only result successfully for no more than one night, unless we find a breed which will stand the pressure.

In addition to the regular premiums awarded specials were awarded as follows: To J. M. Hughes, gardener to Mr. Geo. W. Childs, for a collection of palms and a general collection of fine foliage plants, which were used for decorating the stage. Many of the yellow chrysanthemums were also used in this prominent position, giving it an effective appearance. The same exhibitor was awarded a special for a magnificent specimen of the Latania borbonica, which occupied a prominent place on the floor of the main hall.

As I must make this mail in order to get anything in about the Philadelphia show, I must close at this point and say: "To be continued in our next." L.

Indianapolis, Ind.

As upon former occasions the show was opened by the mayor of the city. In a characteristic speech he dwelt upon the good influences of flower and plant culture upon the people at large. E. G. Hill in response thanked the mayor and the citizens of Indianapolis for their generous hearted support which has been given continuously since our first exhibition five years ago.

Mr. John Thorpe, who is an expert judge, declared that the decoration of the hall was by far the finest and most artistic that he had ever seen for similar purpose; all the visitors, also, were loud in their praise of Mr. Truemper's work. We understand that this gentlemen has been engaged by the World's Fair people to act as decorator for that occasion.

A fair critic of the show would say: Great excellence and superiority were observable in the cut blooms of chrysanthemums, but the plants were far behind former efforts at this place; the show is unquestionably very strong in cut blooms, and quite up to high water mark in the classes for 25 varieties, with three of a kind, and for best 10 blooms one of a kind. In the former class, Bertermann Bros. were first; their collection contained fine examples of Mermaid, E. W. Clark, Kioto, George Bullock, Cullingfordii,

Baronald, Excellent, Mrs. Irving Clark. L. B. Bird, Canning and others. Henry Rieman won 2d in this class; in his entry were fine blooms of Violet Rose, E. G. Hill, Mrs. Langtry, Kioto, T. C. Price, Mermaid and Boehmer. Fred Dorner was third, with splendid blooms of Widener, Bird, Evaline Stein, Emma Dorner, Baronald and Mrs. Irving Clark. It is only fair to say that the above contestants were only a few points apart, and that each of the three exhibits was a triumph of cultural skill.

The Huntington prize for best 10 blooms was won by E. G. Hill by half a point, so close was the race between Gause & Bissell and Hill. The flowers were of unusual size and finish in both collections. The winners were Maud Dean, Flora Hill, Alcazar, Vivand-Morel (this variety was singled out for a certificate of merit), Beacon, Lizzie Cartledge, Atlanta, Etoile de Lyon, Mrs. George Bullock and Widener. Gause & Bissell's were Bird, Kioto, J. V. Farwell, Mrs. Irving Clark, Mrs. M. M. Thomas, Etoile de Lyon, E. G. Hill, Widener, Mermaid, Violet Rose.

M. A. Hunt had a fine exhibit, not for competition, containing charming examples of Evaline Stein, Vivand-Morel, J. C. Vaughan, Mermaid, Sugar Loaf, Beacon, Frank Thomson and Bird.

Pitcher & Manda were out in force with all their latest productions, and made a most interesting display; to be noted specially in their collection were George Savage, a fleecy white; Harry May, Ada McVicker, Mrs. Hicks Arnold, Frank Clinton and Excellent.

Mr. Dorner was first with best 25 of the new introductions of this year; J. C. Vaughan second. Owing to the lateness of the blooming season, neither of the exhibits was as well done as the contestants would have wished.

Bertermann Bros. were first with five blooms of Boehmer, which were fine and very nicely colored.

There were four groups of 100 plants each, grown to a single stem and one flower, which were quite a feature of the show. M. A. Hunt took first with best 100 of all kinds, Mr. Henry Rieman, second. Mr. Hunt had fine specimens of Aug. Swanson, Viviand-Morel, Advance, Waban, Evaline Stein, and Mrs. E. W. Clark; the circles of 100 Widener, by Mr. Hunt, and 100 Mermaid by Dorner, were striking features and were much admired.

In standards the finest and best six were by J. C. Vaughan, who easily took first. These were nicely done and greatly admired.

As on former occasions, Indianapolis was the center of a seedling contest; in fact, the interest in the new varieties outweighed everything else in the minds of the florists present. Mr. John Thorpe was expert judge, and gave great satisfaction to all exhibitors. It is only fair to say that the seedlings exhibited equaled those shown at Madison Square, and not a few thought they would average higher than any lot ever gotten together. Of course, several of the Madison Square varieties were also shown here, and were prize winners on both occasions. The winner of the prize for best seedling was Harry May (Pitcher & Manda). This is a fine, erect, bold flower of light bronze yellow and is in every way a grand sort.

The winner of the $25 prize for best pink was Olga (Henry Rieman). This variety is a fine, well-built flower on stiff stem, full and double to the center, color soft rose with majenta shadings.

The best seedling yellow was Miles A. Wheeler (Nathan Smith & Son); soft, primrose yellow, brightening at the center. It is all that could be desired in form and finish.

The $25 premium for best red was easily won by O. P. Bassett (E. G. Hill & Co.). This is a seedling from Cullingfordii, the exact color of its parent, but quite distinct in size and form.

The $25 premium for best white was won by Mrs. Gov. Fifer (Nathan Smith & Son), a fine, pure white of informal shape; the petals are broad and blade shaped, giving it a fine contour, quite a striking variety and quite distinct from other whites.

The following were certificated as being of great excellence, and were deservedly decorated with the red ribbon. It might be well to mention that these certificated sorts were most carefully judged, and in no case received the ribbon where they were not entirely distinct from and superior to existing sorts; it may also be said that they were extremely close seconds to the prize winners, several losing by only a single point.

The pink varieties were Esther (Fred Dorner), a wonderfully beautiful glowing pink of fine form and finish, destined to be a leader; Spartel (Nathan Smith & Son), delicate rose pink of the Alpheus Hardy type, without any trace of violet or magenta; Harry Balsley (Nathan Smith & Son), a fine pearl pink, almost a pure self pink of very distinct form; Maud Dean (E. G. Hill & Co.), a splendid incurving pink, which was also certificated at Madison Square; Edward Hatch (E. G. Hill & Co.), this variety won the Whitney cup at Madison Square as best pink, but was ruled out at Indianapolis as not being pink, therefore not eligible to compete in the class in which it was entered. Mr. Thorpe said afterward that had it been entered in the sweepstake class it would have won easily, as in his opinion it was the best seedling in the show. It is immense and incurving—a soft lemon suffused with pink.

Red seedlings: Ernest Rieman (Henry Rieman), a fine, bold flower of splendid texture and excellent form; Benj. Schiltgies (H. Rieman); this is another finely formed flower, with stiff, stout stems and ball shaped flowers, brownish red.

Yellow: These were out in force, and were of rare excellence. Ridondo (Nathan Smith & Son), rich bronze yellow of fine incurving form and good substance; color extremely good; Mrs. Maria Simpson (E. G. Hill & Co.), splendid incurving form, broad petals, color chrome yellow; Mrs. Louis Childs Madeira (E. G. Hill & Co.), a splendid golden ball of quill-like petals.

In whites: Mrs. Robert Craig (E. G. Hill & Co.), intermediate between the Chinese and Japanese, a splendid ball of white, certificate at Madison Square and silver medal at Philadelphia; Jaguar (Nathan Smith & Son), a white sport from Mrs. Irving Clark, identical with this grand variety save in color, which will make it a grand acquisition.

Another entry in the seedling class was from John H. Sievers, of San Francisco. Mr. Sievers has a very beautiful collection of Japanese seedlings, though many of them seem identical, or nearly so, with existing sorts. No. 75, or Golden Gate, has every appearance of being a grand sort; it was a little past its best by Thursday, but is a distinct and beautiful thing; No. 83 was greatly admired, especially by the lady visitors; it is an incurving variety of broad, creamy outer petals, with short-petaled whorled center of bright, golden yellow, to our mind the best in the set; the collection made a very beautiful display.

The display of orchids was most interesting, and proved a drawing card. These were furnished by Mr. F. T. McFadden, of Cincinnati, and Siebrecht & Wadley, of New York.

Roses were staged by M. A. Hunt and W. W. Coles, of Kokomo; Mr. Coles had magnificent examples of La France, and Bride, which took first premium, while his Perles were a good second. Mr. Hunt's roses, as usual, were up to the highest standard and as fine a lot of roses as ever were staged, stems stiff and foliage clean. He was first with Niphetos, Sunset, Gontier, Perle, Mermet, American Beauty and Duchess of Albany. Other fine collections were staged by Miss Frick, of Ft. Wayne, and John G. Heinl, of Terre Haute. Strauss & Co., of Washington, sent splendid clusters of Augustine Guinnoisseau (White La France) and Mme. Pierre Guillot. These were greatly admired by the florists present. Mme. Pierre Guillot is a rose of great beauty, and destined to become very popular. The writer also greatly admires a cluster of the White La France.

The carnation display was admirable. Mr. Dorner took first for the best general collection containing many of his later sorts. John Hartje also showed some seedlings of promise. H. E. Chitty sent fine examples of Lizzie McGowan, Lamborn and Tidal Wave. Richard Witterstaeter had the finest examples of Lamborn, Swayne, Buttercup, Mrs. Fischer, and Annie Wiegand, that the writer has ever had the privilege of seeing. E. G. Hill & Co. had vases of all their new varieties, which were greatly admired. Certificates were awarded to Ben Hur, Edna Craig (owned jointly by Robert Craig and E. G. Hill), White Dove and M. A. Hunt; all fine pink novelties except White Dove.

The show promises to be a success financially, as well as in excellence of display. A meeting of the florists was held on Wednesday and Thursday evenings. At the first of these Prof. Joseph Arthur, of Purdue University, gave us a most interesting and instructive lecture on the carnation and its diseases, which was greatly appreciated by all present. E. G. Hill was asked to tell about the Madison Square show, which he did in a twenty minutes' talk.

Thursday night we were entertained by Mr. Thorpe in his usual inimitable way about World's Fair matters in general, and the seedling chrysanthemums in particular. Mr. Thorpe made the broad statement that the world had never seen so fine an array of new seedlings as were gathered there in Tomlinson Hall. He averred that several dozen meritorious seedlings had been set aside which three years ago would have been counted prize winners.

The show was enlivened by one of the finest orchestras in the state, supplemented by the noted cornetist Billstedt, of Cincinnati, who proved a winning card. H.

NOTES.

Probably the largest flower in the show was Ada McVicker, a white from Pitcher & Manda, but it lacks several petals of being fully double.

Among those present from abroad were John Thorpe, B. F. Auger, M. A. Hunt, J. D. Carmody, William Blackman, H. H. Ritter, J. A. Peterson, H. L. Sunderbruch, John G. Heinl, Fred Dorner, S. Humfeld, W. W. Coles, J. S. Stuart, Ed Bissell, Mr. Niedringhaus, J. A. Pettigrew.

Mr. Thorpe's position as expert judge on the seedlings was certainly not one to be envied.

Clara Bertermann, an old gold in color, with very large flower, a sport from John Collins, attracted considerable attention in Bertermann Bros.' exhibit.

Very noticeable among the seedlings was a collection of 30 varieties shown by Henry Rieman, who also captured the lion's share of the plant prizes.

The number of extra good seedlings shown was remarkable, and foretells wonderful things in chrysanthemums in the future if the improvement here shown can be maintained.

In plants the show was not equal to last year's display, growers claiming that premiums offered would not justify the outlay in time and work.

The seedlings were not judged on time, doubtless being held back for recuperation.

Chicago.

It was a beautiful display that was opened to the public Tuesday of last week by the Horticultural Society of Chicago, far in advance of anything of the kind before seen in this city. And in addition to the array of well grown plants and specimen flowers and groups of handsome decorative plants that occupied every foot of floor space not needed for standing room, there hung from the girders overhead and on the face of the balcony such a wealth of laurel wreathing as to turn the great barn-like structure into almost a fitting place for such an exhibition. No less than 2,500 yards of wreathing were used.

The exhibition was opened with an address by Hon. Thos. B. Bryan, vice-president of the World's Columbian Exposition, one of Chicago's most eloquent speakers. In the course of his address Mr. Bryan alluded to the gift of sentiment as one that Americans, above all people, should cherish and said that the love of flowers is closely akin to the purest love for humanity. "Astronomers point out the stars of heaven," he concluded, "but florists cherish the air-woven children of light which form the most beautiful mosaic of our own planet."

It rained dismally all the first day and as a result the attendance was very light, but the three following days the weather was more favorable and the attendance was large, on Wednesday reaching nearly 3,000 paid admissions. All who had attended the three former exhibitions united in saying that while each year had shown a marked improvement the present show was a greater stride in advance than any other one had been.

CHRYSANTHEMUM PLANTS.

The display of plants was most excellent. There was a large number of them; fine taste was shown in the arrangement of the groups and the individual plants were evidence of great skill in cultivation. Never before have such fine plants been exhibited in this city. The principal exhibitors were Messrs. J. C. Vaughan, W. N. Rudd, Frank Leslie and O. P. Bassett, Lincoln Park and Mrs. S. P. Gardner.

Mr. Vaughan's display was decidedly the largest and contained some plants that would be hard to beat. He had the only standards in the hall, and they were so well done as to be one of the most taking features in the plant display. His standard Waban was a grand plant and his group of three standards, three colors, also excited universal admiration. But the plant that captured both amateurs and professionals alike was a splendidly grown plant of Ivory, very dwarf, two feet across and bearing 56 blooms of uniform excellence. It took the blue ribbon for best specimen plant, white, and won in a walk.

Mr. Vaughan captured the majority of the first premiums on plants, taking firsts for six white, 6 yellow, 6 any other color, 6 of this year's introduction, specimen plant white, same yellow, same pink, specimen standard, 3 standards, 50 plants in 6-inch pots grown to single flower and 50 in 6-inch pots, 3 flowers. O. P. Bassett took the seconds in most of these classes. W. N. Rudd was first for 50 plants in 10-inch pots and pushed Mr. Vaughan hard in the class for 50 plants in 6-inch pots grown to single flower. For seedling of this year Frank Leslie was first, Jno. S. Forster second and H. E. Gabel third. Pitcher & Manda were first for specimen plant any other color than noted. In addition to Messrs. Vaughan, Rudd and Bassett, Mrs. S. P. Gardner received several prizes, displaying some plants that would have been formidable had the flowers been more fully developed.

Among the new sorts shown in good condition in the various groups were Mrs. O. Laughton, Pandanus, Beatrice Card, Waban, Mrs. D. D. L. Farson, Rose Queen, Eurus, Mrs. R. J. Baylis, Mrs. R. d'Oyley Carte, Mrs. Senator Hearst, J. C. Vaughan, Mrs A. C. Burpee, Mrs. J. T. Emlen, John Firth, Beacon, Mary Moran, Yoshuke, Penelope, Ernst Asmus, Vivian Morel, Emily Dorner, Gypsy, International, Mrs. John Westcott, Frank Thompson, Mrs. J. G. Whilldin and Target. Mr. Vaughan exhibited a plant of Etoile de Lyon in a 6-inch pot that was very good and V. H. Hallock, shell pink, was very prominent in Mrs. Gardner's groups.

Waban was very much admired and Mr. Thorpe expressed the belief that this will be a very popular variety. He also said that the display of 6-inch pot plants in number of varieties could not be excelled in this country.

The first prize seedling of this year, shown by Frank Leslie, is named Mrs Agnes C. Allerton. It is a distinct coppery yellow, incurved, of large size. Mr. Thorpe considers it one of the most promising new sorts. Other seedlings shown were King's Daughter, by J. C. Vaughan, a very large flower, flat petals of snowy whiteness — certificate; Golden Gate, shown by J. C. Vaughan, a large reflexed flower, rich chrome yellow, double and extremely promising—certificate; W. A. Manda, shown by Pitcher & Manda, golden yellow of the Hardy type, flowers not so double, but petals broader—certificate. Various other seedling of more than ordinary merit were shown, but were not yet considered worthy of certificates.

Pitcher & Manda exhibited an exceedingly well grown and well bloomed plant of John Dyer.

CHRYSANTHEMUM CUT BLOOMS.

In cut blooms Messrs. W. N. Rudd, J. C. Vaughan and Frank Leslie all made grand displays and they each contained some magnificent flowers. Mr. Rudd's Wideners attracted much attention and were a feature of the show. He took first for 100 blooms and 12 blooms and second for general display, Mr. Vaughan taking first for general display and second on 100 blooms, the second and third on 12 blooms going to Frank Leslie and Lake Geneva Floral Co. respectively. Pitcher & Manda also made a fine display of cut blooms on the second day, too late for competition. Among the sorts shown were Miss M. Colgate, a globe of white; Harry May, large orange yellow—certificate; Ada McVicker, large white; Hicks Arnold; Miss Annie Manda, a seedling from Mrs. Alpheus Hardy, of more globular shape, not so hairy, but having a pronounced fragrance—favorable mention; Mrs. W. S. Kimball and George Savage. This display was a very interesting and instructive feature of the exhibition.

On the last day were shown a number of flowers from Mr. John Thorpe's place. Among them was his George W. Childs, a pronounced clear crimson for which he was awarded a first class certificate. In the collection there were a lot of very promising seedlings and the committee made favorable mention of No. 203, a beautiful clear pink; No. 202, a tint approaching what is termed "crushed strawberry"; No. 204, a large full white flower and No. 205, a globular, tooth-petaled white.

Mr. Thorpe was very enthusiastic regarding the flowers exhibited by Mr. Rudd and predicted that he would be heard from in the future as one of the champion growers of fine flowers.

An interesting feature of the display was a collection of chrysanthemum blooms brought in by Senator McDonald of California, from Mrs. Addie Decker, of that state. They came through in very good condition considering the great distance they had travelled, and while not specially fine blooms, they attracted much attention.

CUT FLOWERS.

Mr. W. H. Chadwick had the only display of orchids, but the collection was a very creditable one and the orchids, as usual, attracted a goodly crowd.

The display of roses was not what it should have been. In fact Mr. O. P. Bassett had just about a clean sweep, and but for him this department would have been a complete failure. Mr. W. N. Rudd competed in a few classes and got two firsts, the remainder going to Mr. Bassett, who also won the Chicago Florist Club's special prize for best display of cut roses.

In carnations it was no better, Mr. N. Singler and W. N. Rudd dividing the firsts between them, the Art Floral Co. securing a few seconds. Some very good Lamborns and Lizzie McGowans were shown by H. E. Chitty, Paterson, N. J. The Hill prize of $25 for 25 blooms of any one new carnation was awarded to Robert Craig, Philadelphia, for a vase of the new carnation, Edna Craig, a beautiful pink, in the way of Grace Wilder, but of a lighter shade.

In the general display of cut flowers on the first day O. P. Bassett had no competition, but the manner in which he had arranged his display on a round table made it very effective. M. F. Gallagher took the prize for general display on the third day, also without competition.

FLORAL ARRANGEMENTS.

On the first day F. F. Benthey received the prizes of $40 and $25 for arrangement of orchids in basket and hand bouquet of orchids. The hand bouquet was composed mainly of cypripediums and cattleyas, with a few sprays of odontoglossums and a couple of lycastes. The basket contained pretty much the same sorts, only with a larger proportion of cattleyas. The arrangement was excellent in each case. Though there was no competition the entries were well worthy of the premiums awarded.

There was quite a brisk competition in the class for arrangement of chrysanthemums, any design, on same day. Mr.

Benthey took first, $35, with a large vase formed of white carnations, in which were very loosely and gracefully arranged a collection of superb yellow chrysanthemums, including some magnificent Wideners, well foliaged, the additional green consisting of adiantum ferns. On the base at one side a loose, graceful bunch of bronze chrysanthemums were very effectively placed.

Second prize, $20, went to P. J. Hauswirth for an arrangement of white, pink and yellow chrysanthemums, among hardy ferns, in a large gilded wicker urn.

Third premium, $10, was taken by the Art Floral Co., with a large gondola, very well worked out, but this and other formal arrangements received but scant courtesy from the judges.

There were five entries in the class for table decorations on the second day. The first prize of $50 was won by M. F. Gallagher. His center piece consisted of four handsome bowls of American Beauty roses around a somewhat larger bowl of the same roses, each bowl standing on a small, round, bevel-edged mirror. The arrangement was as graceful as possible while keeping it low enough not to materially obstruct the view across the table and Adiantum Farleyense was very effectively used on the table among the cut glass bowls. At each plate was an oak leaf, upon which was lettered in gilt the name of the guest and tied to each with a small bow of brown ribbon, the same shade as the leaf, a bit of Roman hyacinth or other small flower. But the glory of this table was the china and glassware. The Richelieu hotel had laid out its very choicest and rare indeed it was. The plates were old French ware and are alleged to have cost $125 each. There were seven wine glasses at each of the twelve plates and no two were alike and the color tones of each group harmonized beautifully. Some were heard to criticise the rich display of ware as out of place in a flower show, but from the crowds that continually surrounded the display it must be acknowledged that it was decidedly a drawing card.

The second prize of $30 was taken by F. F. Benthey. His center piece was a combination of four small plateaus of Mme. Pierre Guillot roses, and the effect was charming. The favors were of the same roses. But there was a yellow tint in the ware used that by daylight did not harmonize well with the buff and pink of the rose used, though the effect was very good by gaslight. But for the yellow tinted ware this arrangement would probably have been first, for it possessed one very strong point over the other in that there was absolutely no obstruction of the view across the table, while the arrangement was still graceful, which was more easily accomplished with the rose used than with the bolder American Beauties.

The third prize of $20 went to Joseph Curran. His table was in the form of a triangle with a center piece of same shape composed of Mme. Pierre Guillot roses, crotons and ferns. The favors were of "White La France" roses.

For best arranged $5 box of flowers, flowers used to be of the sorts usually sold over the counter, and the arrangement to give the best possible effect on opening the box, the first prize, $10, was taken by M. F. Gallagher, and the second, $5, by P. J. Hauswirth. Mr. Gallagher also received first, $10, for most artistically arranged vase of flowers, the second prize, $5, going to the Art Floral Co.

On Thursday came the competitions in the basket classes. For basket of roses the Art Floral Co. took the first prize, $20, for an arrangement of Brides and pale Mermets in a basket in the form of a champagne hamper. The arrangement was very loose and effective, the roses apparently flowing to one corner and dripping over the rim there. A bunch of the same roses was very gracefully placed on one end of the open cover of the hamper.

M. F. Gallagher was second in this class with a large handle basket of Duchess of Albany among adiantum ferns.

For basket of flowers, any style, Mr. Gallagher was first with a tall handle basket of mixed roses and adiantum ferns with a bunch of bouvardia in one side and carnations in the other and a bloom of L. Harrisii at one side of the handle. P. J. Hauswirth was second with a large handle basket, one side Brides and the other Duchess of Albany, arranged very gracefully among adiantum ferns.

The competition in mantel decorations took place on the last day. The first prize of $75 was awarded to P. J. Hauswirth by a unanimous vote of the judges, some twenty ballots being cast. But it was an easy matter to decide, for Mr. Hauswirth's mantel stood more than head and shoulders above the other entries. It was a most beautiful creation and was well worthy of the unstinted admiration it evoked. Along the mantel shelf were adiantums, with at one end a perfect plant of Nephrolepis cordata, placed on its side so that the sword-like fronds stood boldly, but not too obtrusively, out, shaded to the mirror at the back by a large foliaged adiantum. At the other end, extended gracefully out over a massive plant of Adiantum gracillimum, several grand sprays of Oncidium ornithorhynchum, the soft rose purple of the mass of tiny flowers harmonizing most gratefully with the varying green tones of the heavily fronded adiantums. At the back was a plant of Dendrobium thyrsiflorum with just one perfect raceme of flowers hanging over the ferns. In the center of the shelf, at the back of the adiantums and rising above them, was a well flowered plant of Cattleya Bowringiana, and from the extreme end of the shelf on one side clambered a single vine of Cissus discolor, most gracefully disposed, while from the other end Asparagus plumosa sprang in a different direction and with an entirely different effect. In the grate a splendid specimen of Ananassa sativa variegata was framed in a group of small palms and similar decorative plants, while a tasteful group of palms, pandanus, draceenas, etc. gave an added finish at each side, the arrangement being sufficiently varied to avoid any appearance of formality. In the group at one side rose from the foliage two blooms of the "Bird of Paradise" flower (Strelitzia Reginæ) that added a surprising touch of richness to the effect. It was certainly the most finished and artistic mantel decoration ever seen in Chicago and that it was thoroughly appreciated was evidenced by the unanimous vote of the twenty ladies that passed judgment upon it.

M. F. Gallagher received the second prize of $50 for a conventional arrangement of roses, chrysanthemums, lilies, carnations, adiantums, etc. The grate filled with red carnations and a group of decorative plants at each side.

MISCELLANEOUS.

Of the McNally prizes for group of decorative plants first went to J. T. Anthony, second to E. Weinhoeber & Co. and third to Albert Fuchs. The Hutchinson prizes for begonias were won, first by O. P. Bassett and second by W. H. Chadwick. Mr. Bassett's group was arranged in the form of a low pyramid and contained a superb collection. The Anthony prize for pair of palms, open to amateurs only, was taken by Mrs. M. Cudahy, while the Samuels prize for pair of palms, open to all, was won by Mr. J. T. Anthony. The Leland Hotel prize for vase filled for outdoor purposes went to Albert Fuchs and the Gallagher prize for fernery filled and the Pitcher & Manda prize for 6 orchid plants in flower were both taken by Mr. W. H. Chadwick.

Mr. Chadwick also received first for 20 ferns, 20 varieties, his group containing some excellent specimens. He also took first for specimen plant other than palm, with a magnificent Adiantum Farleyense. Mr. J. T. Anthony received first for 12 palms in not over 10-inch pots, a very fine collection.

In fruit Klehm's Nursery had a walk-away, taking first in each of the classes for apples, pears and grapes, Mrs. C. R. Williams taking the seconds in the classes for apples.

The judges of plants and cut flowers were Messrs. John Thorpe, Alex. Reed, Samuel Muir, Fred Kanst, Alex. Newett and E. Hobbs. The floral arrangements were judged by 24 ladies selected from the customers of the various florists.

Among the visitors at the exhibition was Mrs. Emily Taplin Royle, who was prior to her marriage New York correspondent for the FLORIST. She had not attended a chrysanthemum show for two years and she made some interesting comments on the progress made by the chrysanthemum in that time. After noting the absence of varieties that had been dropped, those that had been retained and the new ones that had come in, she observed that the tendency was more in the direction of real beauty in the flowers rather than to merely odd or curious forms and colors as had been the case some years back and she commended the wisdom of the growers in striving for beauty rather than for monstrosities.

The daily press was very liberal with complimentary notices, several of the most influential morning papers giving freely illustrated descriptions of the exhibition on their front pages on Wednesday and all giving more or less space each day while the show was in progress. Taken altogether it was decidedly the best and most satisfactory exhibition of plants and flowers ever given in this city.

Washington.

With much of misgiving during its inception as to the final result, the first chrysanthemum show of the Washington Florists' Club has been brought into shape. And now we laugh at our fears, for the large hall of the Light Infantry is full to overflowing of the most creditable sort of stuff.

It must be borne in mind that Washington has never doted on the chrysanthemum like some of her sister cities in the north, and we all feel proud that out of our comparative inexperience we have evolved such good results.

Entering the hall, the first group consists of the combined exhibits of merchantable chrysanthemums, palms, etc., of A. Gude & Bro. and C. Schellhorn; chrysanthemums slightly drawn by their exclusive indoor culture, but flowers very clear and delicate in their colors. Next comes "From the Cradle to the Grave," by N. Studer. Upon a platform slightly separated into sections by a beautifully

decorated framework and edged by stove plants and chrysanthemums in the most tasteful manner, at the upper end, is a rug in red and yellow chrysanthemums creditable in conception and execution, lying before a cradle containing a tiny babe who has received the usual natal floral offerings. Through the doorway one sees a bridal couple richly dressed approaching the altar. Maidenhair ferns, nephrolepis and Marguerites predominate in the decoration of this section. Next comes a richly decorated dinner table, sideboard and chiffonier, richly embellished with roses. Mandarin orange plants appear on top of the sideboard in very good shape. Huge bottles of wine flank a plaque of Beauties, while beer and wine bottles peer out of the floor decorations. A most magnificent pair of candelabra add much to the dinner table effect. From the festive scene to the last section is a vivid contrast. There a grave covered with Selaginella Martensii, headed by a huge block cross, in capes and milkweed balls, a large wreath of Brides and La France, urns of American Beauties and Meteors supplemented by banks of ferns, dracænas and chrysanthemums. There is shown in the whole conception great merit and an appreciative regard of the adage, "Whatever you do do well."

Now we have the competing chrysanthemums in 10-inch pots. Studer first, large plants, but a trifle drawn and consequently loose; good merchantable stuff, but not commanding the admiration of judges. Next comes a group liberally decorated with premium cards. Clark Bros. grew them; plunged plants, only in greenhouse about a month, well furnished and symmetrical. They take the first premium for the best twelve plants; second premium for best six.

C. F. Hale made another of the thorough grown exhibits, excelling in Ivory, showing plants 30 inches in diameter, 15 inches high and a solid mass of flowers. Taking all of Hale's competing exhibit together, I believe no more even and skillfully handled stuff could be found.

A. Gude & Bro. and Robert Bowdler show groups of twelve that are very good. Perhaps if they had disbudded and staked out a little more better results would have been obtained.

The two largest plants of the show come next, exhibited by Studer. Yeddo stands 5 feet high, head 4 feet in diameter; Lilian B. Bird 5 feet high, 3 feet in diameter; very good plants.

Now comes the unique collection exhibited by Philip Gauges. He shows five plants grown as standards. Tyro, with a head 2 feet in diameter, flowers very even and symmetrical, stem clean, 3 feet above pot. The Duchess and Superbiflora compete in spread and effect. Empress of Japan, with more foliage but even flowers, makes a fair standard in white. Mr. Gauges shows a great variety; while his flowers are not large they are uniform in size and clear in color. Bride of Roses and Puritan are good specimens. A plant of Frank Wilcox grafted with Ivory, Mrs. John Petit, Mabel Douglass, Mrs. Wm. Barr, Medusa and Mrs. A. Hardy is a great curiosity.

Edward S. Schmid stages a large assortment of florists' supplies and accessories. The aquariums are extra fine and numerous. Metal wreaths in quantity show that they can't be pooh-poohed down, as has been attempted by some of our critics, for his investments are not made without knowing his market.

J. L. Loose, of Alexandria, stages a magnificent lot of Adiantum Farleyense in from 3-inch to 8-inch pots; grand stuff, indeed. Pandanus utilis is fine, and Adiantum cuneatum in 8-inch, with 3 feet spread, are shown.

J. H. Ley has about the same space in stoves. A good lot of Araucaria excelsa in 5-inch is the only exhibit of that plant. He also has the following novelties: Pteris Smitheana, Dracæna Ducati, Cattleya Waroqueana, Rhapis humilis, Cupania filicifolia, Alocasia imperialis, Pandanus amaryllifolia, and Aralia Kerchoveana.

John Saul shows the only collection of orchids and a fine pitcher plant, Nepenthes Dominiana, attracts much attention. His collection of stoves shows a wide range of sorts in good shape.

Now comes Washington's pets—cut roses. It is almost impossible to particularize, but let me say that a table 60 feet long and 6 feet wide covered with jars of specimen blooms is a sight not soon to be forgotten. Robert Bowdler gets first prize on La France; he is rapidly becoming celebrated for a particular shading of pearly pink to his La France to which the rest of us cannot generally attain. Ed Miller's Perles are grand, but he comes in second on them, and his Bon Silenes are simply magnificent. His Brides capture the first premium. A. Gude & Bro., first on Mermets, and they are Mermets sure enough; second on Watteville, but since Mme Pierre Guillot has appeared we are rapidly losing interest in Watteville. Gude's 100 violets take the first premium. Studer first on American Beauties. George Field & Bro. make a fine show of roses, but do not compete for premiums.

W. H. King shows some grand carnations. In the case of Anna Webb he deserves great credit, as they don't flourish well here generally. He also shows some extra fine Lamborns. Clark & Bro. first on Duchess of Albany and Woottons. Bebus, of New York, first on Watteville and second on American Beauty.

C. F. Hale shows the best twelve cut blooms of chrysanthemums and the best trusses in the show. A. Gude & Bro., best 25 all different and they are certainly fine flowers. W. H. Ernest stages a finely arranged collection of standard pots and cut flower jars which attracts attention by the artistic manner in which it is put up. Alex. Garden shows nice floral work and a general assortment of good flowers.

Pitcher & Manda show a fine lot of cut blooms, mainly novelties. Ada McVicker, a white, noticeable for width and thickness of petals, together with great size of the flower; Miss Annie Manda, very similar to Mrs. Alpheus Hardy; it is to be hoped the latter has been improved upon in manner of growth; Miss M. Colgate, pineapple shaped white, is apparently the pioneer of a new form of "ye mum;" Harry May, in pale orange, is good; W. A. Manda is of novel form, petals drooping from stamens downward; others which are apparently improvements upon old types are good examples of what may be done in that direction. J. R. Morgan & Bro., a firm of young florists, exhibit a very creditable display of merchantable chrysanthemums, and have them tastefully grouped.

The music balcony is staged about and Robert Bowdler has it decorated very tastefully with several wagon loads of chrysanthemums and palms, aided by some large palms belonging to Cadmus. The five huge columns which range through the middle of the large hall are also staged about and decorated in a pyramidal form, 10 feet wide on the floor, with the tops of palms touching the ceiling. To this very artistic work Studer, Clark Bros. and E. Miller contributed excellent material and made very tasteful arrangements. Abundance of chairs are provided, and sitting among bowers our patrons can listen to the strains of the Marine Band and the song of birds.

Much praise and no criticism has greeted our first effort, and we think we have reason to be proud. C.

Buffalo.

Our show opened auspiciously on Thursday. Having engaged the hall for the day before the plants were all in position and everything ready prompt on time for the opening. But the attendance was comparatively light. It seemed as though the 50 cent rate in the afternoon worked to disadvantage.

The daily papers gave good notices, especially the Buffalo *Courier*, whose reports from the able pen of Mr. Miner, formerly in the trade, were very accurate.

Peter Crowe of Utica, N. Y., gave eminent satisfaction generally (barring of course the perennial kickers) on his judging of plants and cut flowers displayed on Thursday. Richard Salter of Rochester acted in same capacity on designs, cut flowers, etc., and his task was not light or easy. A number of exhibitors felt disappointed at the decision arrived at. It's a pity they can't all get first prizes.

The royal blue chrysanthemum which its originator, Prof. J. F. Cowell gives the name of "He-go" was in full display under a glass case, occupying a table by itself. It attracted unlimited attention from the well posted public. It is hoped its projeny may meet with extended distribution in time for World's Fair display.

In the chrysanthemum plant classes Wm. Scott received firsts for 24 in 24 distinct varieties, 24 in any variety, 12 in any variety, 6 in 6 varieties, 6 any variety and 4 white; D. Newlands, for 12 in 12 varieties, 6 yellow and 4 any other color than white or yellow; J. H. Rebstock, for single specimen any variety.

In the other plant classes firsts were awarded to Wm. Scott for 12 geraniums, any variety, 12 carnations in 6 varieties, 6 in 3 varieties, specimen any variety, 12 flowering begonias 4 varieties, 6 in 3 varieties, 12 show leaf varieties, display of orchids in bloom, 12 palms 6 varieties, 6 in 3 varieties, specimen any variety and 6 dracænas in 3 varieties; to J. H. Rebstock for 12 bouvardias 3 varieties, 6 in 3 varieties, specimen any variety, 12 dracænas 4 varieties, specimen any variety, 12 ferns 6 varieties, 6 adiantums, 6 show leaf begonias, 50 stove and greenhouse plants and 25 ditto; to J. F. Cowell for 12 double primulas and 12 single ditto; to D. Newlands for 12 coleus 6 varieties.

In the growers' classes for chrysanthemum cut blooms firsts went to Wm. Scott for best collection 25 named and 12 varieties; to G. Ransom for single specimen; to J. F. Cowell for collection of varieties introduced in 1890 and 1891. The Laing prize for 50 named blooms, any named variety, went 1st to Wm. Scott and 2d to J. H. Rebstock.

In the open to all classes for cut blooms Mr. Scott also took firsts for collection, 25 in 6 varieties, and vase of 12 blooms, Mr. Rebstock winning on single specimen.

In the growers' rose classes firsts were taken by Wm. Scott for American Beauty, Mermet, La France and general display; by J. H. Rebstock for Bride; by Jas. Milley for Perles. In the open to all classes

J. H. Rebstock took firsts for general display and 36 in not less than 3 varieties.

In carnations first prizes were won by Wm. Scott for 100 not less than 4 varieties and 25 not less than 5 varieties. First for display of pansies, not less than 100 blooms, went to A. J. Scott.

In floral arrangements J. H. Rebstock won firsts for handle basket of chrysanthemums, basket any style, hand bouquet, mantel decoration, 24-inch cross and 24-inch pillow; Wm. Scott for any design in chrysanthemums, dinner table center piece, thanksgiving design, 24-inch anchor and standing cross; D. B. Long for lunch table decoration, wedding design, and piece of artistic floral work; Adams & Nolan for bride's bouquet and plateau of chrysanthemums; Palmer & Son for vase of roses; Wm. Belsey for 15-inch wreath.

Among other exhibitors were Geo. Pickelman, Pitcher & Manda, Mrs. Carpenter and Brampton Bell.

Minneapolis, Minn.

Our exhibition opened on Tuesday, the 10th, at noon. The weather was very fine and the attendance has been good. The following were the exhibitors: R. J. Mendenhall, C. A. Smith Floral Co., E. Nagel & Co., Wessling & Hartman, Gust Malmquist, gardener to Hon. W. D. Washburne, J. S. Gray and F. W. Nagel, all of Minneapolis; and Aug. S. Swanson, and L. L. May & Co., of St. Paul; Pitcher & Manda, Short Hills, N. J.; J. C. Vaughan, Chicago. A few seedlings were exhibited. Three of J. C. Vaughan's seedlings, No. 2, No. 4, No. 9, received a certificate of merit. Also No. 1 seedling from the State Reform School and No. 1 of Mendenhall's received certificates. The judges on seedlings were Wm. Hull, James Lowden; judges on plants, and flowers, Prof. Sam B. Green, S. Y. Haines and Franklin Benner.

In the classes for chrysanthemum plants premiums were awarded as follows:

Display of plants, 25 varieties, C. A. Smith Floral Co., 1st diploma and $50; R. J. Mendenhall, 2nd, $50; Wessling & Hartman, 3rd, $30; E. Nagel & Co., 4th, $10. Twelve varieties, C. A. Smith Floral Co., 1st, $25; R. J. Mendenhall, 2nd, $15; E. Nagel & Co., 3rd, $10. Twelve specimen plants, all different kinds, C. A. Smith Floral Co., 1st, $25; Wessling & Hartman, 2nd, $15; R. J. Mendenhall, 3rd, $10. Display of standards, L. L. May & Co., 1st, $25; R. J. Mendenhall, 2nd, $15; Aug. S. Swanson, 3rd, $10; Six specimen plants, all different kinds, C. A. Smith Floral Co., 1st, $25; J. C. Vaughan, 2nd, $15; Wessling & Hartman, 3rd, $10. Single specimen plant, Wessling & Hartman, 1st, $25.

In the classes for chrysanthemum cut blooms, for 25 blooms 25 varieties, C. A. Smith Floral Co. received 1st, $30; R. J. Mendenhall 2d, $25; J. C. Vaughan 3d, $15; Pitcher & Manda 4th, $10. For 12 varieties, one bloom each, R. J. Mendenhall 1st, $15; C. A. Smith 2d, $10; Pitcher & Manda 3d, $5.

Special arrangement of foliage and decorative plants, Gust Malmquist, gardener to Hon. W. D. Washburne, 1st, $25; R. J. Mendenhall 2d, $15; C. A. Smith Floral Co. 3d, $10. Display of blooming plants other than chrysanthemums: E. Nagel & Co. 1st, $25; R. J. Mendenhall 2d, $15; Wessling & Hartman 3d, $10.

Chrysanthemums, design most tastefully arranged: C. A. Smith Floral Co. 1st, diploma and $50; J. S. Gray 2d, $50, Aug. S. Swanson 3d, $30; Hartman & Wessling 4th, $15. Design of miscellaneous flowers, quality, workmanship and flowers to govern: C. A. Smith Floral Co. 1st, $50; R. J. Mendenhall 2d, $30; E. Nagel & Co. 3d, $25; R. Wessling 4th, $15.

Cut roses, 12 blooms of each variety: R. J. Mendenhall 1st, $3 on each of the following varieties: Bride, Beauty, Mermet, Waban; C. A. Smith Floral Co. $5 each on the following: La France, Albany, Bennett, Meteor; R. J. Wessling on Wootton.

Six varieties carnations, 6 blooms of each: C. A. Smith 1st, $15; R. J. Mendenhall 2d, $10; Wessling & Hartman 3d, $5; E. Nagel & Co. 4th, $3.

Premiums offered by Wyman Elliott, president of the State Horticultural Society, in behalf of said society, for six varieties of chrysanthemum plants grown as standards, stems not over 12 inches high and pots not more than 8 inches across: Aug. S. Swanson 1st, $10 and life membership in said society; E. Nagel & Co. 2d, $5 and life membership in said society. Six blooms of chrysanthemums nearest to 12 inches, Pitcher & Manda 1st, $10 and life membership in said society.

Of the other special premiums two were taken by R. J. Mendenhall, three by E. Nagel & Co. and one each by Aug. S. Swanson and Jacob Hartman.

Providence, R. I.

The chrysanthemum exhibition of the R. I. Horticultural Society opened November 12 with splendid weather, a veritable Indian summer, and a fine collection of plants and cut flowers, to which was added a large display of winter fruit. The attendance from the first was of a nature pleasing to the management and evincing the great interest felt in the "Queen of Autumn." During each evening of the exhibition there was an organ recital under the direction of one of Providence's best organists, Prof. Macdougal.

The hall has a large floor space and has one of the best organs in the city. Electric lights lent brilliancy to the occasion and fair women and gallant men filled the hall on each evening.

Chrysanthemum seemed to be the word on every lip mingled with praises of its wonderful beauty and growth.

Exhibitors were present from beyond our state and our own growers were well represented. Messrs. Pitcher & Manda, of Short Hills, N. J., exhibited some beautiful specimens of cut chrysanthemums together with a new seedling, the "Harry May." H. E. Chitty, of Paterson, N. J., exhibited three varieties of pinks, Lizzie McGowan, Lamborn and Tidal Wave. R. T. Lombard, of Wayland, Mass., exhibited the carnation Golden Triumph. Edward Swayne, of Kennett Square, Pa., exhibited his Aurora carnation.

Among Rhode Island exhibitors of chrysanthemums were James Andrews, James Nisbet, Robert Johnston, N. D. Pierce, Jr., Wm. A. Appleton, Jr., Rowland Hazard, Charles Fulford, David Phillips, Wm. Hill, gardener for Mrs. L. P. Shepherd, George McMillan, gardener for R. H. I. Goddard, Alfred Powers, gardener for L. P. I. Goddard, William Hay, Sam W. Lewis, Mrs. R. Jencks, and many others of less note, numbering in all nearly fifty exhibitors.

Of fruit there were 41 exhibitors, making a collection of two hundred plates of fruit.

The chrysanthemum, however, was the chief attraction, and during the days of the exhibition nearly 10,000 persons viewed this really extraordinary collection.

E. I. Nickerson is president of the society and C. W. Smith secretary and treasurer.

The largest exhibitors were James Andrews, who for three years has made large exhibitions, sometimes as many as 400 plants. He was followed in order by R. H. I. Goddard, Robert Johnston, James Nisbet, T. P. I. Goddard, Mrs. T. P. Shepherd, N. D. Pierce, Jr., Wm. A. Appleton, Jr., David Phillips and William Hay.

William Hill, gardener for Mrs. L. P. Shepherd, exhibited a fine specimen of trained standard plant, the Puritan, and Robert Johnston a trained standard of Lilian B. Bird. Messrs. Pitcher & Manda exhibited a new variety the "Harry May," and T. P. I. Goddard the Mrs. D. D. L. Farson.

Among the popular plants we noticed Mrs. Langtry, a beautiful flowering white bloom, W. H. Lincoln, Val d' Andorre, Puritan, Ada Spaulding, Gloriosum, Lilian B. Bird, Mrs. Alpheus Hardy, Empress of India, Lady Spaulding. S.

Newport, R I.

The chrysanthemum exhibition of the Newport Horticultural Society was far ahead of that of last year both in cut blooms and plants. The standards were exceptionally fine and the plants on single stems, of Louis Boehmer, Mrs. W. Barr, Puritan, Mary Wheeler and Charity, were all worthy of special mention. The anemone that took first prize was a beautiful thing. The seedling that received the silver medal was something after the style of Waban, color deep rose, white shading through the center, incurved. It is a grand acquisition, not yet named. It was shown by Richard Gardner, gardener to C. Vanderbilt.

Pitcher & Manda showed their new varieties, Ada McVicker, Harry May, Mrs. E. D. Adams, Annie Manda and W. A. Manda, all very fine.

In the plant classes, Richard Gardner, gardener to C. Vanderbilt, received 6 first premiums, 2 seconds and 2 thirds; Thomas Beattie, gardener to Alfred Tuckerman, received 6 firsts and one second; Alex McLellan, gardener to J. W. Ellis, received 1 first, five seconds and 2 thirds; Wm. C. Russell, foreman for C. Vanderbilt, received 1 first; Gibson Bros., florists, received 2 seconds; Andrew Svenson, gardener to Mrs. Geo. F. Jones, and James Doherty, gardener to J. Van D. Reeves, each received 2 thirds.

In the cut flower classes the premiums were pretty well scatttered. Richard Gardner, gardener to C. Vanderbilt, received 1 first and 1 second; Pitcher & Manda, 1 first and 1 second; W. C. Nichol, gardener to Theodore Davis, Andrew Svenson, gardener to Mrs. Geo. F. Jones, and Andrew Ramsey, gardener to Mrs. Ed. King, each received 1 first; Gibson Bros., florists, 1 first and 1 second; Alex McLellan, gardener to J. W. Ellis, 1 first and 1 second; Chas. Stark, gardener to Mr. Fiske, and James Doherty, gardener to J. Van D. Reeves, each 1 third.

Gibson Bros. received the special prize for basket of chrysanthemums.

New Haven, Conn.

The annual exhibition of the New Haven Chrysanthemum Club opened under very auspicious circumstances November 9. The show in a general way is superior to anything ever before seen in the state.

Among the special features deserving particular mention might be named a plant of Acme, also specimens of Elm City and Faith, all seedlings and raised and

exhibited by Mr. Wm. J. Rowe, of this city. Mr. John H. Slocombe shows magnificent flowers of Lilian B. Bird, Coronet, Mermaid and Belle Hickey that good judges claim were superior to any exhibited in New York.

Robert Veitch & Son exhibited very fine specimen plants of Prelate, Acme and Buttercup, all seedlings originated in New Haven; Buttercup particularly is one of the finest Japanese yellows yet seen and well worthy of general distribution. They also show some beautiful specimens of pot grown coleus, all seedlings, that are very fine.

Mr. Archibald Veitch shows some superb specimens of Mon. Bernard, Ed. Lonsdale, Sunflower and Mme. Prunae; the last is one of the finest soft pink varieties yet seen. Mr. A. N. Pierson shows some beautiful specimen flowers, notably Marvel, Mrs. Langtry and Pres. Harrison, which seems yet to be the finest dark colored sort. C. P. Lines & Co, exhibit a seedling from Thibaut & Keteleer, which, if it should prove to hold the color, will be a decided improvement on the parent.

Among the specially fine new sorts might be mentioned Mrs. Libbie Allen, Mermaid, Eureka, Jamie Rowe, Elliot F. Shepard, Mrs. Burpee and Mrs. Farson, several of them New Haven seedlings, and to the growers of this city great credit should be given. R. V., JR.

Baltimore.

It was a great exhibition, the best we have ever had, and the growers may be proud of their productions. The exhibition opened on Tuesday and has been very largely attended, making it a financial success.

The following were exhibitors and prize takers: L. Huggins, W. Fraser, John Cook, H. Bauer, John Wiedey, Halliday Bros., S. Feast & Son, Wm. McRoberts, Mrs. Mary J. Thomas, John Donn, C. M. Wagner, C. C. Hoffman, Isaac Moss, F. G. Burger, H. Frederick and others, including Pitcher & Manda, Short Hills, N. J.

Judges were secured from Washington and the exhibitors were highly pleased with the way the awards were made by Messrs. W. R. Smith, John Saul, J. R. Freeman and George Field, all from the National Capital City.

The chrysanthemum plants were as a whole unusally fine and a credit to the growers. In the plant classes Halliday Bros. received 5 first premiums, Wm. Fraser 3 firsts and 5 seconds, H. Bauer 3 firsts, 1 second and 2 thirds, John Donn 1 first and 1 second, H. Frederick 1 first and 4 thirds, C. M. Wagner 2 seconds and 3 thirds, J. Beal 1 second.

For collection of cut sprays H. Frederick was first and C. M. Wagner second; for 25 blooms S. Feast & Son first, Halliday Bros. second and J. Wiedey third. For design of chrysanthemums J. Cook was first, J. Wiedey second and H. Frederick third.

For dinner table decoration Halliday Bros. were first and S. Feast & Son second, and for Mantel decoration Halliday Bros. were first, S. Feast & Son second and J. Wiedey third.

In the other classes for floral arrangements Halliday Bros. took firsts for funeral design, wedding design and basket; T. Patterson for table design and hand bouquet; S. Feast & Son for corsage bouquet.

Isaac Moss took first for 6 palms, 1 palm and 25 decorative plants, C. Hess taking second in the last named class.

J. Cook was first for display of roses, J. Beal for 6 begonias and Thomas Patterson for display of carnations.

In orchids Brackenridge & Co. received first for best display and Halliday Bros. for single specimen. H.

Worcester, Mass.

Wednesday and Thursday, Nov. 11 and 12, were the days set apart by the Worcester County Horticultural Society for their eighth annual chrysanthemum exhibition.

The attendance was poor the first day owing to the inclemency of the weather, but Thursday it was all that could be desired.

The hall was arranged nearly the same as last year. The cut flowers were displayed on two large round tables in the center of the hall, each table graced by a specimen areca in the middle. The plants were arranged on terraces along the sides and the stage banked with arecas, kentias, araucarias, etc.

The State Lunatic Hospital, John Nelson gardener, was the largest exhibitor and as usual carried off the cream of the plant prizes. He showed fifty plants which would have been almost perfect if we had not had that hot spell, which caused them to "spindle." Joseph Brierly had an exceptionally good plant of W. H. Lincoln, which was awarded first for specimen plant.

Cut flowers in tall vases were the most popular feature of the show and they certainly were very fine; a vase of Etoile de Lyon shown by Joseph Brierly was given first in this class; State Lunatic Hopital a very close second with a vase of Mrs. A. Hardy. For the best six and twelve Japanese blooms Joseph Brierly received first and State Lunatic Hospital second. Among the best blooms in this class were Robert Crawford, Louis Boehmer, Etoile de Lyon and W. H. Lincoln.

The Chinese blooms were not quite as good as usual; the Japs seem to get all the attention. Six well shaped blooms shown by Mrs. C. E. Brooks secured the first premium.

Pitcher & Manda showed twenty-five magnificent blooms that excited much admiration, among which were Miss Annie Manda, Ada McVicker, Harry May and Shasta.

Edward Swayne exhibited a vase of his new carnation Aurora, which took the Ladenburg cup at New York.

The exhibition was very encouraging to local enthusiasts as a whole, showing that the Autumn Queen is more popular than ever and has come to stay.

ALBERT H. LANGE.

Philadelphia Notes.

Hugh Graham had a fine chrysanthemum show on his own account at his Chestnut street store; in fact it was almost too good to keep the regular exhibition at Horticultural Hall.

Henry A. Dreer had a fine display of bulbs, put up in the excellent style for which that firm is noted.

SEE NEXT issue for exhibition reports not given this week.

St. Louis.

The second annual banquet to florists, nurserymen and gardeners, in accordance with the provision made by the late Henry Shaw, took place at the Mercantile Club the evening of November 10. Covers were laid for 80 guests, on tables handsomely decorated with chrysanthemums.

After the elaborate menu had been discussed to the entire satisfaction of all, toasts were responded to as follows: "Henry Shaw," by Mr. Norman J. Coleman, who was Commissioner of Agriculculture under President Cleveland; "Economic Entomology," by Prof. S. A. Forbes; "What I know of amateur gardening and orchids," by Mr. Charles E. Hay, Springfield, Ill; "Horticultural Literature," by Mr. Edgar Sanders, Chicago; "Weeds," by Mr. James Gurney, head gardener at the Missouri Botanical Gardens; "Chrysanthemum Shows," by W. A. Manda, Short Hills, N. J.; "St. Louis," by Mr. W. S. Chaplin, the newly elected chancellor of Washington University and trustee of the Missouri Botanical Gardens.

Prof. William Trelease, director of the Missouri Botanical Gardens, presided.

All present voted the evening a most enjoyable one.

The directors of the Missouri Botanical Garden will award three scholarships prior to the 1st of April next, in accordance with the intention of the late Henry Shaw in founding the garden, i. e., to provide adequate theoretical and practical instructions for young men desirous of becoming gardeners. One of the scholarships is reserved for the nomination of the Florists' Club, and in case the entire number is not then awarded the remainder will not be awarded until the corresponding period of the following year. Applications must be in the hands of the directors not later than the 1st day of March next.

"Afraid to Tell the Truth."

Referring to your comments on my answer to Mr. Falconer (page 306) permit me to say that the *Rural New Yorker* is indeed being sued for $150,000; for $75,000 by a Long Island florist and seedsman and for $75,000 by a country trading association of this city—both libel suits. The first case was mentioned simply because the prosecutor is a florist and seedsman.

The omission of the word "many" was unintentional. It will appear, however, that the sense is not thereby materially changed.

I heartily agree with you that the "florists of America are a hard-working, honorable people" and that we have all reason "to feel proud of them," as a class. No stronger reason could be given why the black sheep should be fearlessly shown up and summarily dealt with.

E. S. CARMAN.

[The omission of the word "many" did very materially change the sense. With this word omitted, the impression was given that the committee failed to find *any* errors intentionally committed, whereas the report itself tells us in substance that some were found, but only a *very few*. And the committee further told us that where the offender acknowledged his error the matter was left in abeyance until another year should show whether he was sincere or not and if he was not then the case would be brought to public view. As the object of the committee was to *remedy* existing evils rather than to simply make a sensational report, the course they pursued was certainly a wise one and we heartily commend it.—ED.]

WHEN sending out premium lists, mail copies to the secretaries of other organizations giving exhibitions. Each organization should have the benefit of the ideas of all the others.

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

New York.

The cut flower trade is very dull at present. The weather has been warm and pleasant and little improvement is looked for in trade until the advent of colder weather. Chrysanthemums show no signs of diminution, but are rather on the increase. The country about here is overwhelmed with them and judging from appearances it will be some time before they are cleaned up. For extra quality blooms the price holds good, however, the best lots bringing from $20 to $25 per 100. An indication of the unseasonable weather was a basket of chrysanthemums on Burns & Raynor's counter, which had been cut from out doors and were of fair quality. Roses have stiffened up again slightly. Quite a number of Harrisii lilies are coming in already. Violets are still inferior in quality and pansies are abundant, of good quality and cheap. Lily of the valley is more plenty and has dropped back to September prices. Smilax is coming in faster than it can be disposed of and prices on it are simply anything which may be offered.

Mr. Albert Benz of Douglaston, L. I., died of pneumonia on Tuesday, Nov. 10., after a few days' sickness, resulting from a cold contracted while attending a yacht club dinner. Mr. Benz was widely known as a pansy fancier and specialist. His place at Douglaston was devoted mainly to the growing of pansy seed, the strain grown having attained an enviable reputation. At certain seasons he grew large quantities of lily of the valley for the New York market. Mr. Benz was one of the most prominent citizens of Douglaston, which he has made his home for some seventeen years. He was postmaster of the town and was very prominent in local secret society work and was also a member of the S. A. F. He came to America from Wurtemburg about eighteen years ago, having been a student in Dr. Lucas' celebrated Pomological Institute at Reutlingen. He was very highly respected by his neighbors and the flower trade about New York or wherever he was known. He is spoken of as a man of strictest honesty and business integrity. He was very active and ambitious in his business and his decease at the age of 38 is a grievous loss to the trade. His death under the present circumstances is particularly sad. His wife died quite suddenly last May and a family of five little ones, one of them a cripple and in feeble health, are now doubly orphaned. Other members of his family also are said to be in failing health, and much sympathy is expressed among those who know the circumstances. He fortunately had been successful in his business and had built up a nice home. The business will be continued through the winter. A handsome floral design was sent to the funeral by the florists and growers frequenting the 34th street market.

The meeting of the Florist Club on November 9 was very slimly attended, most of the regular standbys being in attendance at the Philadelphia chrysanthemum show and supper. Resolutions on the death of Chas. P. Anderson were presented by the committee appointed for that purpose and a copy ordered to be sent to the family of deceased. Arrangements were perfected for having the annual club dinner in January next.

John Burton profited at the auction sale at Rob't B. Young's last Tuesday by the sharp rivalry between Mr. Weir and Mr. Stumpp, both of whom wanted the same pair of palms. Areca lutescens was the variety and they went up to $40 apiece on $5 bids, when Johnnie Weir's backbone gave out and Stummp was the possessor at $41 apiece, which was considered to be considerably above the market value of the plants.

The New York *World* is just now engaged in a commendable agitation of the question of street trees and earnestly advocates the planting of shade trees on all the broader streets in New York City. It is to be hoped that the effort will meet with success and that practical results will follow. Brooklyn is far ahead of New York City in this matter.

A Christening at Boston.

The christening of the new seed ing "P. Welch" is to be held at the Quincy House November 9 at 6 o'clock p. m. You are invited to be present.
S. J COLEMAN, Secretary.

The above is a copy of a missive which found its way into the hands of the faithful, and the unanimity with which they all appeared at the appointed place and time indicated that there had been no doubt in anybody's mind as to the advisability of accepting the invitation. After a social hour in the parlor the party, numbering about fifty, marched arm in arm to the banquet hall, where they found well laden tables awaiting them. Vases of chrysanthemums adorned the board and at the head of the table stood the new born child in its dress of red and gold standing up sturdily with a vigor unlooked for in a child so young.

After the customary onslaught on the good things, Judge Hoitt, as chairman, called the congregation to order and introduced as the parson Pres. Norton of the S. A. F., who he stated had been secured at great expense to the management to perform the ceremony. Mr. Norton, after a mild objection to being taken for a parson, then asked for sponsors for the child and Wm. Edgar and Lawrence Cotter were duly presented as such. "I christen thee, P. Welch, in the name of the gardeners and florists of America," said the parson, and in his zeal he accidentally scattered a goodly portion of the water over the sponsors, who beat a hasty retreat. Great applause followed. Mr. Coleman was then called upon for a statement as to the parentage of the child, to which he replied, naming Cullingfordii and Mrs. Wheeler.

An original poem in honor of the occasion was then read by Judge Hoitt. Copies of the same may be obtained from the judge by duly accredited parties. Lawrence Turley then gave a recitation on the Cannibal Maid and the Hottentot Blade, which was highly appreciated. Speeches followed by Mr. P. Welch, Elijah Wood, W. H. Long, P. Norton, Ed Hatch, J. H. Woodford, E. M. Wood, Frank Becker, Jackson Dawson, L. H. Foster, Warren Ewell and others, with an occasional song by way of variety, Jas. Rough winning all the glory in the latter accomplishment.

It being but two days previous to the proposed assumption by Mr. Welch of the bonds of matrimony, the occasion took on a double significance and the chaffing and sage advice freely bestowed upon him may be more easily imagined than described. Ed Hatch said that P. Welch had privately informed him that this christening at this particular time was intended to do double duty, "so that the boys wouldn't come to the wedding and holler round the church."

The affair terminated at a late hour, much regret being expressed that Mr. Welch would on account of important engagements be unable to attend the bowling match on Wednesday afternoon, but he expressed his inability to attend to two things at once.

THE first annual exhibition and meeting of the American Carnation Society will be held at Buffalo, N. Y., Tuesday, February 16, 1892.

WE HAVE in hand a very interesting article on advertising exhibitions, by G. C. Watson, of Philadelphia, that will appear next week.

WE GIVE in this issue reports of the exhibitions in most of the larger cities, but we have another big batch of reports for next week.

NEXT WEEK we will have Mr. Thorley at the telephone on the subject of novelties in floral arrangements.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

WE SHALL present in next issue a view of the Philadelphia exhibition.

REMOVAL.

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Roses, Bon Silene	1.00
" Gontiers	2 00@ 3.00
" Niphetos	3 00@ 4 00
" Perles, Sunsets	3 00@ 4.00
" Mermets, Brides	4 00@ 6.00
" Watteviles, Woottons	3 00@ 5 00
Carnations, long	1.00@ 1.50
" short	.50@ .75
Violets	.75
Valley	5.00@ 6 00
Pansies	.50
Chrysanthemums	6 00@ 8.00
Smilax	10.00@12.00
Adiantums	1.00
Asparagus	50.00

NEW YORK, Nov. 17.

Roses, Gontiers, Niphetos	2 00@ 3 00
" Perle, Cusin	2 00@ 3 00
" Watteville, Woottons	2 00@ 4 00
" Mermet, Bride	3 00@ 4.00
" Beauties	25 00@30 00
Carnations	.5@ 1 25
Violets	1 00
Lily of the Valley	4.00@ 6 00
Pansies	10 00@25.00
Chrysanthemums, specimens	15 00@25 00
Smilax	6 00@10.00
Adiantums	1.00

PHILADELPHIA, Nov. 17.

Roses, Beauties	12 00@20.00
" La France, Albany	4.00@ 5 00
" Mermets, Brides, Bennetts	4 00@ 5.00
" Pierre Guillots, Dukes	4.00@ 5.00
" Cusins, Watteville, Hoste	3 00@ 4.00
" Perles, Niphetos	2.00@ 3.00
" Gontiers	1.50@ 2 00
Valley	8 00
Carnations, long	1 00
" short	50@ .75
Chrysanthemums, specimen flowers	8 00@25 00
" ordinary	1 00@ 2.00
Smilax	15.00@20 00
Adiantums	1 00
Violets, single, bunches	3 50@ 5 00

CHICAGO, Nov. 18

Roses, Am. Beauties	12 50@18 00
" Perle, Niphetos	3 50@ 5.00
" Gontiers, Hostes	3.00@ 4 00
" Mermets, Brides	4.00@ 6 00
" La France, Albany	4.00@ 6 00
" Bennetts, Woottons	4 00@ 6.00
" Bon Silenes	1 50@ 3.00
Carnations, long	1.50@ 2 00
Carnations, short	.75@ 1.00
Smilax	15 00@18.00
Chrysanthemums	1 50@ 3 00
Adiantums	1.00@ 1.25

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Mention the AMERICAN FLORIST when writing advertisers on this page.

CARNATION BLOOMS.
IN FANCY COLORS—LONG STEMS.
I solicit standing orders from florists and others throughout the country, as I make a specialty of shipping them long distances safely by express.
CHAS. T. STARR, Florist, Avondale, Chester Co., Pa.
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34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
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Specimen Blooms of the finest Prize varieties, carefully packed.
LILY OF THE VALLEY, and the Choicest ROSES for the fall and winter season.

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ROSES SHIPPED TO ALL POINTS.
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HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
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FLORISTS
please place your orders for
Wild Smilax, Pines and Palms,
for Decorations, early with
A. C. OELSCHIG,
SAVANNAH, GA.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

MR. W. H. MAULE asks what is the best manner to profitably circulate a catalogue. He is undecided whether to give it away or charge 25 cents for it, but rather favors the latter plan. Several other seedsmen are looking for a solution of this question.

MR. W. H. MAULE has just finished enlarged office rooms at an expense of over $1,000. We understand more holes have been cut in the tables where letters are opened and remittances checked, so that the increased business of 1892 may not be delayed.

GRAHAM, EMLEN & PASSMORE, makers of Phila. lawn mowers, Philadelphia, were damaged by fire November 10 to the amount of $10,000. Insured.

PETER HENDERSON & Co. are reported as adding many new engravings for use in their forthcoming "Everything for the Garden."

JAS. VICK'S SONS will use many new electrotypes of a class radically different from the engravings formerly used by Vick.

MR. W. ATLEE BURPEE is recovering the use of his eyes. It is reported that Mr. B. will not long remain a bachelor.

F. C. HUNTINGTON & Co., Indianapolis, have enlarged their warehouse capacity as well as office room.

ROBT. SCOTT & SON will reduce the size of the pages of their catalogue to that of Burpee's.

PRICES on yellow onion sets are no stronger than when last reported.

THE Dixie watermelon is slated for a hard push this season.

Chicago.

W. D. Allen, for many years in the trade in this city, died Nov. 16, aged 68 years.

Among the visitors to the exhibition last week were J. T. Temple and Charles Dannacher, Davenport, Iowa; J. G. Hancock, Grand Haven, Mich.; W. A. Manda, Short Hills, N. J.; W. A. Harkett, Dubuque, Iowa; Messrs. Whitnall, Ellis, Dilger, Edlefsen and others, Milwaukee; W. H. Parkin, Galva, Ill.; A. W. Orr, Ottawa, Ill.; W. Hughes, Hillsdale, Mich.; Walter Helms, Janesville, Wis.; John Wunder, Winona, Minn.

As the time for the regular meeting of the Florist Club came during the exhibition no attempt was made to hold a meeting. There will be considerable business for the meeting next Thursday.

During the exhibition the Horticultural Society received quite a number of new applications for membership. President Chadwick kept a youth busy distributing at the show copies of the constitution and by-laws, with a membership blank in each one, with the above result.

CINCINNATI.—While the "Queen City of the West" will, we are sorry to say, have no chrysanthemum show this year, she will be in the procession next year.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By thoroughly practical gardener and florist; single man; age 32; commercial or private. Address
J. CARLYLE, 417 70th St., Englewood, Ill.

SITUATION WANTED—By a young man; single; American. Have had 8 years' experience in private and commercial places. Salary no object. Address SALARY, care American Florist.

SITUATION WANTED—By a young man, German, in vicinity of Chicago. Have had 11 years' experience, and can give first-class references. Address Z F, care American Florist, Chicago.

SITUATION WANTED—By a German, middle aged, single and sober, some experience, want work in greenhouses only. Address F K, care Western House, 81-83 W. Main St., Springfield, O.

SITUATION WANTED—By a practical florist and gardener; fully competent to take charge of a first-class commercial or private place; German; 10 years' experience; married; best of references. Address R B, care American Florist, Chicago.

SITUATION WANTED—By first-class florist of executive ability; German; married; 20 years' experience in this country. Specialties: cut flowers, Easter stock and bedding plants. Can be engaged by January 1st. Address M F,
723 South Laurel Street, Richmond, Va.

SITUATION WANTED—As manager or foreman in a large commercial place, where order and neatness with system are appreciated. First-class rose and plant grower. Western States preferred. First-class references. Good wages expected.
D P N, care American Florist, Chicago.

WANTED TO RENT—An established florist business with 16,000 to 20 000 feet of glass; must be in good condition. State particulars. Address
W 10, American Florist, Chicago.

WANTED—For our floral department a young man who has had several years' experience in selling and making up cut flowers. Must come well recommended. Apply by letter, stating age and experience. BROWN, THOMSON & CO., Hartford, Conn.

WANTED—A young man to take a one-third interest in a well established greenhouse trade, in a city of over 25,000 inhabitants, a short distance from New York City; over 1,200 feet of glass; well stocked. References required. Address
H B, care American Florist, Chicago.

WANTED—Gardener. Having built two large new houses for the purpose of engaging in the retail catalogue plant trade in connection with my seed business, I want a good man to take charge of same. Must be young or middle aged, married, sober, industrious, honest, intelligent, and thoroughly understand the propagation and growing of miscellaneous plants. One who has had some experience in the mail and express trade preferred. Good and permanent position to the man that fills the bill. Good references as to character, etc., required. Correspond for further particulars. State capabilities and wages expected.
L. W. GOODELL, Pansy Park, Dwight, Mass.

FOR SALE—Two No. 17 Hitchings boilers in good order. Address W. C NOLAN, Cincinnati O.

FOR SALE—A good property within 50 miles of Chicago; four acres, 10 000 feet of glass; complete All the trade you want. Satisfactory reasons for selling. CORNELL, care Am. Florist.

FOR SALE—Cut flower store doing business under the name of The Bijou; seven years established; have a good trade; reason for selling given upon application. Address CHAS. W. RIEMERS.
329 Fourth Av., Louisville, Ky.

FOR SALE—A first-class retail florist business, palm greenhouse attached and well stocked with fine salable palms. Owner giving good reason for selling Address W. M. HAYES.
care Ellison & Kuehn, 1122 Pine St., St. Louis, Mo.

TO GARDENERS AND FLORISTS.

J. C. GOODING, the well-known rose grower, wishes to retire, and will dispose of his greenhouses, all well arranged, heated by steam, about 16,000 feet of glass dwelling and barn; lot 160x350; good location, within city limits. Cash, half down. Address 1216 Euclid Ave., Cleveland, O.

WANTED TO PURCHASE

Any OLD BOOKS ON GARDENING. State title of work, date of publication and price. Any old Nurserymen's or Seedsmen's Catalogues are included in this want.

Address SAMUEL HENSHAW, Thompson, Conn.

GLADIOLUS BULBS.

Over 100 named varieties and many fine seedlings all mixed together. The quality of this collection has not been lowered by having the best sold under name or color. Several new named sorts have been added this year, and thousands of the least desirable have been destroyed.

FIRST SIZE, $10.00 per 1000
SECOND SIZE, 7.50 "

M. CRAWFORD, Cuyahoga Falls, O.
Mention American Florist

JAPANESE PLANTS

Trees, Shrubs, Bulbs, Seeds, Etc.

SEND IN YOUR ORDERS NOW, for
Lilium Auratum, Rubrum, Longiflorum, Etc.
Cycas Revoluta at **greatly reduced prices.**
Camellias in all colors, **MAGNOLIAS, TREE PAEONIES, MAPLES, Etc.**

Give us a trial, we can supply you with all Plants and Seeds, and can pack safely to any part of the world.

F. GONZALEZ & CO.,
303 to 312 Wayne St. & Crescent Ave.,
SAN FRANCISCO, CAL.
Mention American Florist.

J. A. De Veer,

154 East 34th St., NEW YORK,
Importer and Dealer in
Bulbs, Seeds, Plants
AND FLORISTS' SUPPLIES.
CATALOGUE FREE TO APPLICANTS.

G. J. MOFFATT,

Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN. CONN.
Mention American Florist

BOSTON

Chrysanthemum Show.

Photographs of this memorable event on mounts 11x14 inches, at $1.00 each, or $5.00 for a set of six views. Remit with order.

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25 Bromfield Street, BOSTON, MASS.



VAUGHAN'S "CREAM OF THE SHOWS" CHRYSANTHEMUMS

COMPLETE STOCK.

EVERY VARIETY SOLD ON ITS MERITS.

[GREENHOUSES: WESTERN SPRINGS.] J. C. VAUGHAN, Box 688, CHICAGO.

WHY You Should Grow Mushrooms.
Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.
During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.
Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or outhouses, in the open field or in mushroom houses.

HOW You Should Grow Mushrooms.



First get spawn that will grow. It must be fresh, well spawned, and in good condition. **Gardiner's Celebrated English Mushroom Spawn** is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, **"Mushrooms for the Million,"** Mailed free. **Falconer's "Mushrooms and How to Grow Them."** Published at $1.50. (Gardiner's price $1 35 post free.) **Robinson's "Mushroom Culture,"** 50 cts. postpaid.

GARDINER'S ENGLISH MUSHROOM SPAWN.
John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, $8.00 per 100 lbs. Special rates to large growers. Address all correspondence to **21 North Thirteenth Street,** Philadelphia, Pa.

JOHN GARDINER & CO.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies Etc., Etc For prices examine Wholesale Catalogue.

Address with business card

136 & 138 West 24th Street,

STATION E. NEW YORK.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

C. PLATZ & SON,

Wholesale Seed Growers, Merchants and Exporters,

—— ESTABLISHED 1756. ——

Furnishers to His Majesty The Emperor of Germany and King of Prussia,

ERFURT, GERMANY,

offer their very large stock of every kind of flower and vegetable seeds in finest condition, at lowest rates: Trade seed lists will be issued at the end of November and may be had free on application.

DANISH CAULIFLOWER SEED

Gives in fact the very best results.

Extra Early DWARF ERFURT, and Earliest DWARF SNOWBALL,

the most profitable two sorts for forcing, true to name and first quality, own home grown seed.

For prices, samples and further information, apply to

CARL FRISENETTE, Seed Grower,

4 Svanholmsvej, COPENHAGEN, V.

PANCRATIUM CARIBBAEUM.

(The Great Spider Lily.)



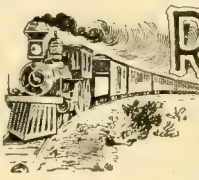
This was one of the best selling novelties last season, and not only sold, but gave **SATISFACTION** to the purchasers. Thousands of bulbs have bloomed freely in all parts of the country. Every **LIVE FLORIST** will catalogue it this season, and to meet the popular demand we have secured 250,000 bulbs of blooming size.

We offer these at $3.00 per 100; $22.50 per 1000, packed and delivered f. o. b.

We also have a few bulbs of the **CRINUM NOBILE** that great average over 2 lbs. weight, at $35 per 100, and some fine **CRINUM AMERICANUM** at $7 per 100. These bulbs are all first quality and size. Order now, and be in time to insure your supply.

THE AMERICAN EXOTIC NURSERIES,

R. D. HOYT, Manager, SEVEN OAKS, FLORIDA.



READY · THIS · WEEK

CHINESE NARCISSUS.
BOUQUET GREEN.
L. AURATUM and RUBRUM
SPIRÆA JAPONICA.
Order Holly and Green now.
LILY OF THE VALLEY.
CHRYSANTHEMUMS, Stock plants and all the new ones. Get our prices.



J. C. VAUGHAN CHICAGO

THE BERLIN LILY OF THE VALLEY PIPS

we sell are of exceptionally rooty growth, thoroughly matured and capable of early forcing they will arrive during November. We have in trans t 100,000 above orders in hand, and we would l ke to place them in lots of 1,000 each, at $10 00 per 1,000, with one hundred growers who have not heretofore used **OURS,** that they may compare their quality, and know with whom to contract next year, for their full supply.

Z. DE FOREST ELY & CO.,

Wholesale Importers of Bulbs and Seed Growers,

1301 & 1303 Market St., PHILADELPHIA, PA.

C. H. JOOSTEN, IMPORTER, 3 Coenties Slip, NEW YORK.

ORDERS NOW BOOKED FOR FALL OR SPRING IMPORTATION FOR

HARDY ROSES, CLEMATIS, AZALEAS, ETC. from the Boskoop, Holland, Nursery Association.

Also NURSERY AND FRUIT TREE STOCKS from LENAULT HUET, USSY, FRANCE.

Catalogues on application. **C. H. JOOSTEN.**

LILY OF THE VALLEY PIPS.

100,000 Berlin, extra selected quality, offered for sale, to arrive in quantities per case to suit, at $9.00 per 1000.

Special prices to the trade, as to quantity.

C. C. ABEL & CO., New York.

WANTED.

FEW GOOD PLANTS OF

ACACIA PUBESCENS.

Address L. F., care American Florist.

KAE SHEAN CO.,

Growers of CHINESE SACRED LILY,

HONG KONG.

Goods can be obtained at the following houses:
John L. Childs Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St. New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R. Pierson..... Tarrytown, N. Y.

Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house

Gold Fish. Gold Fish.

Small Gold Fish from 1 to 3 inches long. A fine lot, hardy and of a bright red color. Address

JOHN VAN WYCK,

NEW HAMBURG, Duchess Co., N. Y.

Boston.

The annual supper of the Gardeners' and Florists' Club took place on Wednesday November 13 at the Quincy House. Most of the prominent members of the club were present, besides quite a number of invited guests, among whom were Wm. Tricker, E. Dailledouze and J. G. Russell, of New York, Jos. A. Dirwanger, of Portland, Me., J. Cowles and R. Gardiner, of Newport, R. I., Secretary Manning, of the Mass. Hort. Society, H. F. A. Lange, of Worcester, and others. President Morton presided, assisted by Secretary Wood, and Edw. Hatch acted as toastmaster. After the usual preliminary ceremonies of clearing the table of the good things presented speaking and singing were in order, and a most enjoyable evening was spent. Mr. Tricker being called upon to speak for New York took occasion to compliment the Boston growers upon the great exhibition of cut flowers and plants which they had presented. Mr. Dailledouze was next heard from and he agreed with the previous speaker that the quality of the cut flowers shown in Boston was ahead of anything of the kind he had ever seen. Secretary Manning spoke for the Mass. Hort. Society. He referred to the pleasant relations existing between the Hort. Society and the G. and F. Club, and spoke in high commendation of the material and intellectual progress made within the past few years in floricultural matters. Tracing back the history of horticulture he described it as a development of the original pursuit, agriculture, which had now gone a step further and given us another sub-division, floriculture. His remarks were received with appreciative applause. Addresses were also made by Jos. A. Dirwanger, of Portland, H. F. A. Lange, of Worcester, J. G. Russell, New York, L. H. Foster and others. Letters acknowledging receipt of invitations and conveying cordial greetings were read from D. D. L. Farson and H. F. Michell, of Philadelphia, Pres. W. H. Spooner of Mass. Hort. Society, Wm. Fraser, Baltimore, J. McKenna, Montreal, W. R. Smith and Robt. Bowdler, Washington, Jas. Dean, Bay Ridge, N. Y., and other prominent society officials, closing with a characteristic one from Wm. Scott, of Buffalo, which created much merriment. Toasts were drunk to the various Florists' Clubs and to Mr. P. Welch who had gone off on a bridal trip. Songs and recitations were given by various talented members of the club, Jackson Dawson's song "Who can drive a wagon if them horses wouldn't go?" calling forth a merited encore.

FLORAL DESIGNS.

The help for Cut Flower workers. 162 pages, colored plates. Edition nearly exhausted; speak quick. Address (with $3.50 for the book)

J. HORACE McFARLAND,
Box 655. HARRISBURG, PA.

F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.
Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.
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They Must Go!
500 PRIMROSES
2½-inch, very best colors, $3.00 per 100
DOUBLE WHITE & PINK BOUVARDIA, 2-inch, in bud, $4.00 per 100.
A. J. BINLEY, GLENS FALLS, N. Y

WABAN ROSE. Headquarters for the New and Beautiful **TEA ROSE WABAN.**
Strong plants for immediate planting, price $20 00 per hundred.
WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

JACK ROSES
12,000 one year old, 2½ to 3 feet high, well branched, $15.00 per 100.
5,000 two year old, 3 to 4 feet high, well branched, $20.00 per 100.
Also 2,000 fine assorted H. P. Roses, one year old, $15.00 per 100.
JORDAN FLORAL CO.,
706 Olive Street, ST. LOUIS, MO.

Cycas Revoluta.
EXTRA FINE STEMS, ROOTS AND FRONDS CUT OFF.
VERY BEST LONG LEAVED VARIETY,
from 6 inches to 6 feet, per lb. 10c.
Discount on large orders.
CYCAS CIRCINALIS by January, '92. Price on application. MYRICA RUBRA SEED.
Rhapis flabelliformis, 25c. to 45c. per shoot.
FELIX GONZALEZ & CO.,
303 to 312 Wayne Street, SAN FRANCISCO, CAL.

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GOLDEN TRIUMPH.
A Seedling of 1888. Makes a fine plant and gives beautiful flowers.
Also a pink Carnation named "DORINDA," a seedling of 1888—one of the best.
Catalogue will be ready Dec. 10, '91. Send for it.
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ROOTED CUTTINGS OF
CARNATIONS
Nice, healthy Rooted Cuttings of Carnations of all the leading and newer sorts, in any quantity after Dec. 10th. Orders received for future delivery at 10 per cent. discount from price list. Correspondence solicited.
JOSEPH RENARD, Unionville, Chester Co., Pa.

XMAS PRICES.
Balsam and Spruce, first-class forest grown, f. o. b. here, 4 to 5 ft. 10c; 5 to 6 ft. 14c; 6 ft. 18c; 7 ft. 25c; 8 ft. 30c; 10 ft. 50c; 12 ft. 65c; 14 ft. select, $1; 16 ft. $1.50; 18 ft. $2. 5 per cent off 100, 10 per cent off 200 tree lots if ordered by Dec. 1st. Bouquet Green, $5 per 100 lbs. Wreathing, light $3, medium $4, heavy $5 per 100 yds. 10 per ct. off 500 yds. and more. Holly, bbl. $2.25. Long Needle Pines, 35c. Chamærops Palm Leaves, $4 per 100. Chamærops Crowns, large, 75c; small, 35c. Wild Smilax $3.50 per bbl.; $5 per case. Fern leaves $1.50 per 1000. A full line of other Decorative goods. Send for a complete list and telegraph code. Quick shipping facilities; four through roads. Also Sphagnum Moss, large bales, $1.50. Rotted Peat $1 per bbl. Terms cash with order or bank reference. Note, this ad. only appears every other week.
JOSEPH BANCROFT, Cedar Falls, Iowa.

PANSIES ONLY.
The Greatest Collection ever offered, including all the Latest Novelties. Our Seed is Warranted to be Fresh, Pure and Strictly First-class. Send for new circular and price list to the trade.
ALBERT BENZ, Douglaston, N. Y.

Roses.
STRONG, HEALTHY PLANTS.
Perles, Mermets, Papa Gontier, Bride, Niphetos, Bon Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France
3-inch pots, $7.00 per 100; $60.00 per 1,000.
TEA ROSES, 30 sorts, from open ground, extra strong, $4.00 per 100.
HERMOSA, strong plants, $6.00 per 100.
HYBRID PERPETUAL, sorts including JACKS, years old, extra strong, $10.00 per 100.
SMILAX. Good strong plants, $2.50 per 100; $20.00 per 1,000.
WOOD BROTHERS,
FISHKILL, N. Y

IMPORTED H. P. ROSES,
Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.
Price Lists to applicants. Address
WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.
A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.
The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.
Trade list mailed on application.
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GEO. W. MILLER,
WHOLESALE * FLORIST,
1748 N. Halsted Street,
Chicago, Ill.
ROSES AND PALMS A SPECIALTY.

DO YOU USE
ROOTED CUTTINGS?
If so, send for my price list of CHRYSANTHS, COLEUS, FUCHSIAS and GERANIUMS.
S. B. FIELD, Roselle, N. J.

Clematis. Roses.
H. P. and Monthly, both pot and outdoor grown, good assortment, own roots, fine plants.
CLEMATIS, fine, well grown plants in choice assortment. Plenty of Jackmanii.
Prices very low, on application.
F. A. BALLER, BLOOMINGTON, ILL.

PRIMULAS.

	Per 100
Chinensis, single white and pink, 2-inch	$4.00
" single white and pink, 4-inch, fine	6 00
Obconica, 3½-inch	5.00
Floribunda, 2-inch	4 00
Begonia Rubra and Metallica	4.00
" Rex	5.00
" Rex Lucy Closson, 2-inch	10 00
Hydrangeas Red Branched, 4-inch	20.00
" Thos. Hogg and Otaksa, 4-inch	15 00

Sold out of Violets.
I. N. KRAMER & SON, Marion, Iowa.

CATALOGUES. *
I MAKE 'EM, WITH CUTS AND "KNOW HOW."
J. Horace McFarland,
HARRISBURG, PA.

CYCAS REVOLUTA STEMS



by weight, roots and fronds cut off. For these we book orders at EXTRA FAVORABLE RATES up to

NOVEMBER 20TH,

in small or large quantity.

THE TRUE LONG-LEAVED VARIETY,

in sizes from 3—4 inch to 4—6 feet. We imported past season over 30,0 o lbs., and can refer to some of the best known firms in the U. S. as to satisfactory results.

Remember a Cycas is a safe investment.

ALSO ORDERS TAKEN FOR

RHAPIS FLABELLIFORMIS.

Can send you all safely by freight. Full information as to prices, time of delivery, freight rates, etc given on application. SEND FOR CATALOGUE.

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For Sale Cheap.

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HIBISCUS SINENSIS, very strong, 4-in. pots,	$2.00
CROTON Aureum and Interruptum, 4-in. pots, 12 to 18 inches high	2.50
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PASSIFLORA PRINCEPS, Red Passion Vine, 4-inch pots, very fine stuff. . . 50c. each.	
ADIANTUM CUNEATUM, fine stuff from 5 inch pots, in perfect health.$20 per 100,	2.50
GARDENIA FLORIDA, Cape Jasmine, 4-inch pots, strong and bushy. . . .$15 per 100,	2.co
HYDRANGEA Thos Hogg, 4-inch pots, strong,	2 00
CHRYSANTHEMUMS, fine stock plants of leading sorts, 5 and 6 inch pots	2 00
PRIMULA OBCONICA, 4-inch pots.	1.25
PRIMULA OBCONICA	2.00
PASSIFLORA ELATA, 4-inch pots.	2.00
PASSIFLORA ELATA, 5-inch pots.	3 00
AZALEAS, with buds.	3.00

Write for wholesale price list.

MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

YOU CAN'T AFFORD TO DO WITHOUT THE SNOWFLAKE DAISY

DON'T depend on us for the cut flowers, every flower we can cut is sold now, and as many more if we could get them; there is and will be a pressing demand for this inimitable flower; a few hundred pot plants still on hand, 3-inch, $5.00; 2-inch, $3 00 per 100. **5,000** clean, thrifty plants in flats, coming into bud and blooming, $2 50 per 100; $20.00 per 1000, (no more clumps). 1000 Bouvardia Davidsoni, 200 Mrs. Cleveland, (crimson), 200 Multiflora Pinks, $2.00 per 100. Variegated Vincas, field grown, 5 to 10 vines, 4 feet, $6.00 per 100; 3 to 5 vines, $4.00 per 100. Eulalia Zebrina and Japonica, fine stock, first size $10.00; 2d size $8 00 per 100. Chrysanthemums, finest vars., 4-inch, $1.50, 6-inch, $2, 7-inch, $3, 8-inch, $5 per doz.; also **Cut Blooms** at 40-50c. per 100, all colors. A few thousand 2d c ass mixed Freesia bulbs, 25c. per 100; $2 per 1000. Early flowering Moonvines, 2-in. $3.00 per 100 No risk; satisfaction guaranteed or money refunded.

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ROOTED CUTTINGS
PETUNIA.

Double Fringed.

5 best sorts, by mail $1.00 per hundred; by express, $8.00 per 1000.

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15 sorts, by mail, 65c. per 100; by express, $5.00 per 1000.

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Hydrangea ramulus coccinea, 1 year old, strong plants from open ground $25.00 per 100. **Hydrangea Otaksa and Thos. Hogg,** 2, 3 & 4 year old, very strong plants, from open ground, $25, $30 and $40 per 100, according to size. **Ampelopsis Veitchii,** 1 year old from open ground, $3.00 per 100. Orders from unknown parties must be accompanied by cash. **JOHN RECK, Bridgeport, Conn.**

ROOTED CUTTINGS.
CARNATIONS AND OTHER STOCK.

I will devote some 30,000 feet of glass to Carnations this season, and will give my whole time and attention to the getting out of strictly first-class cuttings.

Of the three best Novelties of last season (**GOLDEN GATE, HECTOR** and **LIZZIE McGOWAN**) I have an extra large stock, and in the best of condition.

My Miscellaneous Stock will occupy some 7,000 feet of glass and consist of **GERANIUMS, FUCHSIAS, COLEUS, ETC.** It will be grown for me by Mr. D. K. Herr, and gotten up in better shape than if I were to grow both these and Carnations myself.

Give me a chance to figure on your orders. List on application. Satisfaction assured.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

PANSIES OF THE BEST STRAINS.

$5 per 1000 by Express; 75 cts. per 100 by Mail. CASH WITH ORDER.

NOTE.—That my Specialties for the coming season are best varieties of

CARNATIONS, COLEUS, GERANIUMS. FIRST-CLASS ROOTED CUTTINGS.

Descriptive Trade List ready in November. Send for it.

ALEX. McBRIDE, - Alplaus, N. Y.



PALMS and DECORATIVE PLANTS

ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

4,000 Adiantum Cuneatum, 6-in. pots, $35 per hundred.

15,000 Chrysanthemums, fine plants.

Rooted Cuttings of Roses, Carnations, Violets, Geraniums, Chrysanthemums, Coleus, Alternantheras in all the leading varieties.

10,000 Rose plants, prices on application.

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Two Superb Plants.

ANTHURIUM SCHERTZERIANUM (Flamingo Flower.)

A grand scarlet flower of great substance and durability; when cut will last for weeks; long stems; grown easily as a calla. Two year old seedlings from one of the finest varieties in Europe, will bloom this winter.

3½-inch pots, Dozen, $6; 100, $40.
Extra strong plants, $1 to $50 each.

ASPARAGUS PLUMOSUS NANUS.

This elegant plant has no rival for cutting. Strong, in 3½ inch pots, per 100 $40.00.

12 HANDSOME PLANTS for DECORATION at ONCE, $6:

ARECAS, COCOS, DRACÆNAS, ASPIDISTRA, Etc., Etc.

in 5 & 6-inch pots, 1 to 2½ feet, according to sort. F. O. B. same day as order received.

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TROPICAL NURSERIES,
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ORCHIDS.

THE FINEST STOCK IN THE WORLD.
SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

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Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10.00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII, DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots, strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

PALMS AND FERNS

Well grown Specimen Plants, fit for immediate use.

	Each.
KENTIA, 3 to 3½ ft. high, 6-inch pots, 7 to 8 leaves	$2.50
do 2 to 2½ ft. high, 5-inch pots, 5 to 6 leaves	1.50
do 1½ to 2 ft. high, 4-inch pots, 3 to 4 leaves	1.00
COCOS WED. 2 to 2½ ft. high, 6 to 8 leaves	2.00
LATANIA BOR. 2½ feet high, 6 to 8 leaves	1.00
PANDANUS VEITCHII, 2 to 2½ ft. 6-in. pots	2.00

FERNS—Well grown plants in 3 in. pots, for fern dishes, etc., in following varieties:

Pteris Hastata, Sieboldi, Cretica and Alba Lineata, Davallia Stricta and Fijiensis, Lastrea Leptophyllum, Polypodium, Blechnum and Polystichum, assorted, at $10.00 per 100.

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PANSIES. PANSIES.

200,000 plants of the Jennings strain now ready, 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies A No. 1 in every respect. Large flowering, fine colors and fine stocky plants. Seed 50 cts. and $1.00 per packet.

All sizes in Pansies, flowering plants same price, but must be sent by express. Yellow can be had separate from mixed.

ADDRESS **E. B. JENNINGS, Pansy Grower,**
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For Fall Planting.	Per 100	Per 1000
SMILAX, 2½-inch pots	$1.50	$12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CARNATIONS, field-grown	6.00	

Address **J. G. Burrow,**
FISHKILL, N. Y.

A Floral Phantasy.

I am the chrysanthemum
I know I'm yaller,
And sometimes yallerer;
But I am in it
Just the same.
I am aware I'm built
Somewhat
After the pattern of a mop:
But yet
I am an efflorescent epitome
Of the great American spirit
Of git thar.
For I struck this country
A stranger
Without a scent
And no capital
Except my blooming shape,
But I stood straight up
And held my head high
And do yet.
And to-day myself
And my descendants
Are in the floral 400,
And the more
Frills
We develop
The more we're admired.

—*Indianapolis Journal.*

Through a typographical error in Mr. Z. De Forest Ely's advertisement the price of lily of the valley pips was made to read $10 per 100. Mr. Ely writes us that he is willing to furnish ten times that amount for $10 and that the price should have been per 1000 instead of per 100.

KEEP A scrap-book for newspaper notices of your exhibition. It will be mighty interesting later on.

WHEN sending us small amounts in postage stamps, please select those of the 2-cent denomination.

HYDRANGEA THOS. HOGG

Strong two year old Plants for Forcing,

$10.00 per 100.

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Splendid strain, extra fine habit, perfect flowers, unrivaled for variety and brilliancy of colors.

TUBERS, per 100, 1000, or 10,000, offered by

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Stock Plants of Chrysanthemums

JESSICA once more to the front. Those that had it, wished they had grown more. Those that had none, wished they had it.

NOW IS THE TIME TO ORDER STOCK PLANTS.

WE OFFER STOCK PLANTS OF:

JESSICA, 25 cents each.

ROHALLION, the grand new early yellow, 25 cts.

MRS. GERARD, the earliest large pink, 25 cts. The best flowers of this variety wholesaled at 50 cts. each in the New York market.

These three varieties have now flowered and are ready for shipment. All other commercial varieties on hand and ready as soon as flowers are cut.

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Bay Side, L. I., N. Y.

Mention American Florist.

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THE LARGE WHITE FLOWERING VARIETY.

Orders are now booked for fall delivery. Having the largest home-grown stock in the world, and in splendid condition, I can do them well. Last year the large size produced over seventy flowers. For several years they have given the greatest satisfaction to my customers.

Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
2nd size	14.00	"	115.00	"
3rd size	10.00	"	72.00	"
4th size	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000).	2.50	"	23.00	"

Unknown correspondents are requested to add cash or good European references with the orders. Orders can be executed at once. Special prices for bulbs and plants on application.

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Hillegom, - - Holland.

TUBEROUS BEGONIAS.

The LARGEST Stock in the WORLD of Double and Single varieties.

QUALITY UNEQUALED.

All **1st Prizes this,** as in previous years; also Gold Medals, Cups, etc. See catalogue, mailed free.

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TUBERS EXTRA LARGE THIS SEASON.

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" 100 "		The Queen	" "		Purple Prince
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HOLLY WREATHS, $2.25 per dozen. NEEDLE PINES, PALMETTO LEAVES, MISTLETOE.

Order now and tell us when to ship. Special prices on larger lots.

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One of our Specialties.

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All numbers,
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DIRECTORY

OF

FLORISTS, NURSERYMEN AND SEEDSMEN

of the United States and Canada

FOR 1892

ABOUT JANUARY 1, NEXT.

We shall cover the whole country by correspondence and compile an entirely new list which will be as nearly correct up to date as it can possibly be made. But in addition to this we invite corrections from anyone in the trade.

As usual, we shall devote some of the pages to advertisements. Rates given on application. The price of the new book will be **$2.00.**

SEND IN YOUR ORDERS NOW.

AMERICAN FLORIST CO., CHICAGO.



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3,000,000 EVERGREEN CUT FERNS

NOW READY.

Special attention paid to supplying the wholesale trade

Single thousand, $1.25; in lots of five thousand and upwards, C. O. D., $1.00 per thousand.

per barrel; 6 barrels, $5.00. 20 barrels, $15.00.

SPHAGNUM MOSS. Long, clean fibre, hand sorted, DRY or GREEN, $1.00 **BOUQUET EVERGREENS,** $2.00 per barrel.

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Or Slipping and Breaking of Glass in Green Houses or Farmer's Sash. You can save money and glass by using the



PATENT GLAZIER Twin Points.

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Cyclamen persicum, 4-in., budding, per doz. $1.50.
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Transatlantic Wit.

The sleeping room in the bothy was a long, narrow apartment, with the nine beds arranged regularly along one side. A big brown rat had been annoying the boys by his nightly visits, and although many a boot and other missile had been flung at him, he always managed to escape. Finally a concerted plan of campaign was agreed upon which, to make a long story short, resulted in the rat being shut into the room with no means of egress, and the whole crowd of boys in hot chase after him. Jimmie M. was the owner of a tall hat, of which he was very proud, and which he had carefully stowed away in a hat-box under his bed. When the scramble began Jimmie's first thought was for his beloved hat, and he made a dive under the bed to secure it. Bill B., with mind entirely on the rat, seeing Jimmie's brown head appearing suddenly from under the other side of the bed, brought a long-legged boot down upon it with a terrible whack. Poor Jimmie was nearly killed, but they finally succeeded in bringing him to. "I hope ye're no mad at me, Jimmie?" says Bill, with a crestfallen look. "I'm no mad at ye," says Jimmie, "but it almost braks me heart that ye would tak me head for a bluddy old rat."

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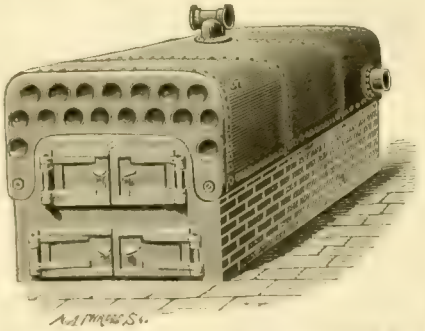
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— AND —
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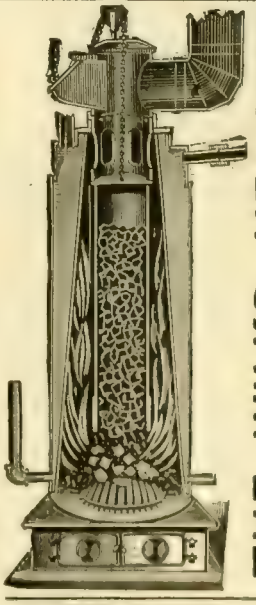
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SIPFLE, DOPFFEL & CO., Syracuse, N. Y.

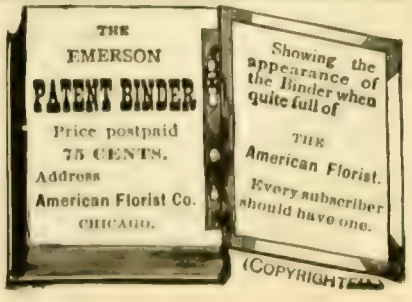
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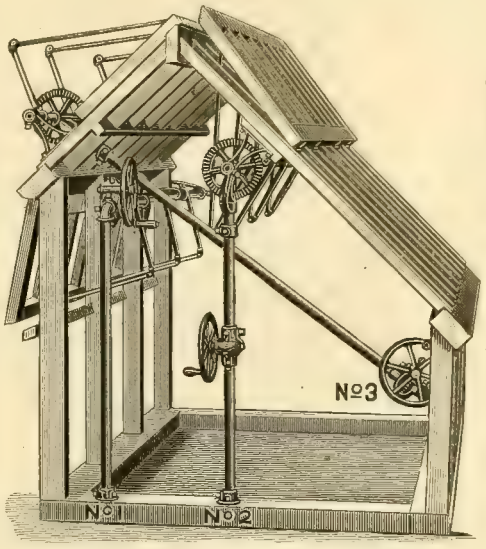
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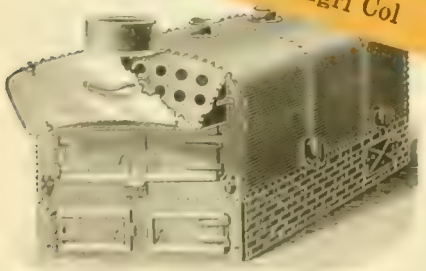
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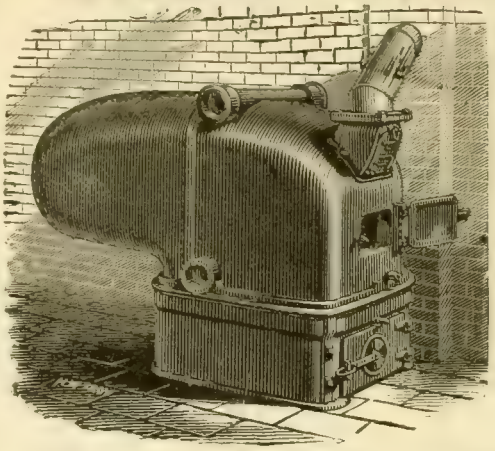
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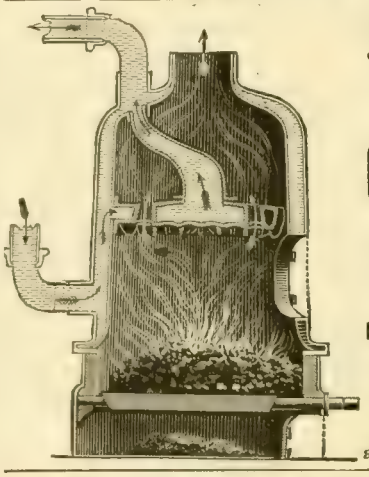
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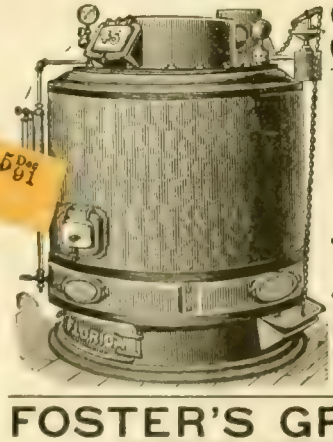
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Vol. VI. CHICAGO AND NEW YORK, NOVEMBER 26, 1891. No. 182

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JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

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AMERICAN CARNATION SOCIETY.

EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., president; C. J. Pennock, Kennett Square, Pa., secretary. First annual meeting and exhibition at Buffalo, N. Y., February 16, 1892.

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ALBANY, N. Y., Nov. 24.—Mr. Wm. Grey is very low—liable to go at any moment.

SEE NEXT ISSUE for exhibition reports not given this week.

Chrysanthemum Shows.

Toronto.

The chrysanthemum show of 1891 is now a thing of the past, and I am glad to say that the club can look back to it with satisfaction. As a financial success the show does not shine, although considering the circumstances there is nothing to complain about (I think I mentioned before that the club had been under the necessity of buying out another society who had engaged the Pavilion before us for the Thursday evening), but as an exhibition of chrysanthemum plants and blooms it could not be beaten on this continent as to quality. As to size, of course I must give in on that point. This may seem to many of your readers like "blowing" a little too much, but I have the opinions of many expert but disinterested persons that I speak truly.

Fifteen members of the club judged the plants and blooms, giving 3 points to the best entry, 2 to the 2d best, and 1 to the 3d best, and this method, though certainly rather difficult and clumsy to handle, has given almost universal satisfaction to everyone, and the book wherein the judgments of the fifteen were copied is a very interesting book. For instance: In the section for a specimen bloom, white, the two best blooms were Mrs. A. Hardy and L. Canning, and the competition between these two was so keen that Mrs. Hardy got 25 points and L. Canning 24 points; now would not there have been some dissatisfaction if a single judge had judged them? They were both perfect flowers of their sort.

The stall for the sale of cut flowers did a large business under the able management of Mr. Charles Arnold and made the amount of receipts considerably larger. The first two evenings were unfortunately wet, but Thanksgiving day was a "daisy," and brought out a big crowd.

Some grand blooms of Mrs. A. Hardy were put up by Mr. R. Mearns, florist, and Mr. G. Vair, gardener to Sir D. S. McPherson. Mr. Mearns also took first prize with some blooms which could hardly be surpassed anywhere of Molly Bawn, Kioto, Dawn, etc. Mr. J. Spring, gardener to D. Hoskin, also exhibited some of the finest blooms in the show of L. Canning, Mrs. G. Thompson, Etoile de Lyon and others. Amongst the finest of Mr. Vair's blooms, many of which were in 1st prize collections, were E. Molyneaux, Gold, Mrs. F. Thompson, H. E. Widener, G. F. Moseman, Robert Bottomley, etc. In the specimen yellow Mr. Mearns took 1st with Kioto, perfect in all respects. In the specimen pink Mr. Spring carried off 1st with an immense Etoile de Lyon, a beauty.

Amongst the plants, Mr. Mearns took 1st in the 25 distinct varieties section with a lot of plants that the judges had no difficulty in coming to a decision about. Amongst them were Ada Spaulding, Mrs. Wheeler, Mrs. Hardy, etc., every plant and every flower a specimen. In the 12 distinct varieties, Mr. A. McPherson, gardener to Col. Sweeney, took 1st with a very fine lot, Mr. Mearns 2d.

Of pompons the show was meagre. Why is this class not grown more? What can be prettier for store or market than well-grown little plants of this class?

In standards, Mr. George Vair took 1st in all sections, with some very fine plants.

In 6 whites, 6 yellows and 6 any other color, competition was keen all round, Mr. Mearns and Col. Sweeney carrying off the 1sts.

In new plants of 1891, Mr. W. J. Laing took the 1st for 6 plants and Mr. Spring 1st for 3 plants.

Col. Sweeney took 1st and silver medal for 25 plants in 6-inch pots; Mr. Spring 1sts for 25 plants with single stem, single flowers, in both 6 and 8-inch pots; Mr. R. Mearns, 1st for bank 15x6 feet, and Mr. George Vair 2d in same class.

Designs, baskets and dinner table pieces were well represented, Messrs. Tidy & Son, Charles Arnold, Manton Bros., Grainger Bros., W. J. Laing and A. Westwood being the chief exhibitors.

Mr. H. Dale, J. H. Dunlop, and Spears & Muston showed carnations, the former taking four 1sts in this class; there was not a large exhibit, though.

The show of roses was simply immense. New York or other cities would not have been it it—J. H. Dunlop coming out ahead in most sections, Mr. H. Dale and Spears & Muston close behind. Of course J. H. Dunlop's new rose "Toronto" was there, and attracted lots of attention. Manton Bros. took 1sts for bunches of both double and single violets.

I must not forget to mention the chrysanthemum blooms sent by our American brothers, Messrs. Nathan Smith & Son, Adrian, Mich.; John N. May, Summit, N. J.; E. G. Hill, Richmond, Ind. and Pitcher & Manda, Short Hills, N. J. (the latter, unfortunately, not being received in time to be placed in competition). There were blooms of many varieties not yet grown here which the growers were especially glad to see, amongst which I mention one from Pitcher & Manda, Ada McVicker. The combined American exhibit was very attractive and received much attention. But I am sure the other gentlemen will not take it amiss and give up sending blooms to Toronto when I say that our own blooms were as fine, and in many cases finer, than theirs, because, as I said before, we were glad to see other varieties than are grown here, the names of which have been put down in many note-books for reference when the time comes for giving orders.

Many florists outside Toronto came in on purpose to visit this show. Amongst

the many were Messrs. C. Morris, W. Pockett, D. Denton, of Cobourg; Mrs. Janzen, of Berlin; Messrs. Townsend, F. G. Foster, E. G. Brown and S. Aylett, of Hamilton.

It was really amusing to stand at the door and watch the effect of the hall on some people, who had not the slightest idea that a chrysanthemum show could be made anything like so grand, and really the progress made since last year was simply marvellous. We thought we had a good show last year, but it was "not in it" compared with this. I overheard several comparisons between this show and those of Madison Square and Temple Gardens, London, and the opinion was that the quality of bloom was quite equal to that shown at those exhibitions.

Trade is brightening up considerably this last week, and I hear very few complaints. Chrysanthemums are coming at a lively rate, but do not stick.

The annual meeting of the Gardeners' and Florists' Club for the election of officers had to be postponed on account of the show, and will now take place on Wednesday, the 25th inst. There are lots of nominations—five for president, I believe—so that there will be a lively time. A little bird tells me that John H. Dunlop will be president for the coming year, but "nous verrons" I will tell you in my next. E.

Philadelphia.

[CONTINUED.]

In the class for ten plants in pots, ten varieties, James Vernor, gardener to A. J. Drexel, was an easy first. This makes the third time in succession that Mr. Vernor has captured this coveted prize. His plants bore evidences of the patient skill which has been bestowed upon them for months past, and he richly deserves all he gets. Conspicuous in this collection were such good sorts as Puritan, Lilian B. Bird, President Harrison, W. H. Lincoln and Miss Mary Wheeler. Second premium in this class was secured by J. Wm. Colflesh. Among his collection were Violet Rose, Mrs. Bullock and Mrs. F. Thomson. Third went to John McCleary, gardener to William Weightman, Esq.

Mr. Thomas Lang's (also gardener to A. J. Drexel) collection of foliage plants were a treat to see, so clean and full of vigor. A variegated pine apple in fruit attracted as much attention as anything from the general public.

The veteran, William Joyce, was out in force with his well cared for pets. For thirty years has Mr. Joyce contributed to the success of the famous displays of decorative plants at the exhibitions held by the Pennsylvania Horticultural Society. An example is set by this illustrious plant lover for all men to follow. Under adverse conditions his success is remarkable, as his plants are grown right in the heart of the city.

Mr. C. D. Ball also had some fine examples of good culture in his collection of ferns and palms. Mr. Ball's plan of labeling is commendable; the card used is oval in shape and mounted on neat sticks about the line of vision. This beats groveling around the base of a plant to find only too often a wooden label with the name obliterated.

The management of exhibitions should insist upon a uniform label being adopted. Better still the managers should furnish labels to all exhibitors.

There is a rule in all well regulated societies and clubs that all entries for exhibition shall be made at least one week before the time for opening the show. And a request that a list of the names of the plants shall form a part of that entry. If both these rules were complied with by exhibitors how much better it would be for the hard worked secretary, chairman of the committee of arrangements, superintendent of exhibitions and the committee on publication or advertising. The secretary could have all the names neatly printed on labels unvarying in appearance, the chairman of the committee of arrangements could tell to a nicety how much space would be required, the superintendent could study out the effects to be produced, and last, but by no means least, the advertising could be more intelligently conducted, advance notices could be prepared with more convincing spirit and a more successful exhibition would be the result.

It takes more courage than most men can muster to refuse to take an entry or an exhibit when it comes in at the eleventh hour. Many come in even later than that. There is a feeling prevalent that we cannot afford to offend an exhibitor. If an exhibitor could only be made to realize how his *little* exhibit (as he is apt to call it at this stage of the proceedings) causes confusion and makes it sometimes necessary to rearrange the plans already being carried out, he would we feel sure be more reasonable.

The cut blooms were superior to those of last year, taking them as a whole, and the new varieties showed up well.

The premium of $50 offered by T. H. Spaulding for best six American seedlings, not less than three nor more than six blooms of each, brought out Pitcher & Manda & Hugh Graham; the latter exhibitor carried off the prize. Roselyn, a delicate incurved pink of large size, showed up well here. The society awarded this one a silver medal. Marguerite, a beautiful white incurved; this was exhibited under the name of Marguerite Graham in New York if I am not mistaken. The abbreviation of names is to be commended so that it is done before the variety is disseminated and in this case it is so.

Logan is double incurved, distinctly and regularly striped pink and white.

Mrs. J. D. Eisele is similar in color to Source d'Or, but the flower is much larger and more graceful in form. This is said to be an early sort. Mrs. Robert C. Ogden is a large flower of a light purple shade of color. The last two are seedlings raised by Fred R. Sykes, gardener to Mrs. Harry Ingersoll. The Rev. J. C. Hanna is reflexed in form, of good size, light purple in color, shading to pure white at tips of the florets.

In Pitcher & Manda's lot were Ada McVicker, which loomed up in good shape. If it were only full to the center it would be one of the best of the year. Annie Manda, similar to Mrs. Alpheus Hardy as to the hairiness of the florets, but it has a much stiffer stem and the bloom is better built than Hardy—not so flat. Harry May attracts attention wherever seen. Many of the best varieties were on exhibition at the Madison Square Garden and were noticed and described in your report of that exhibition.

Certificates of merit were awarded as follows: Harry May (Pitcher & Manda), Annie Manda (P. & M.), Mrs. Robert G. Ogden (Hugh Graham), Charles J. Osborn (Spaulding), J. M. Schley (Spaulding). Robert Craig's and Hill & Co.'s exhibits were so close together and mixed that it was difficult to tell which from which. In the two collections the following were honored by a certificate of merit: O. P. Bassett, Maria Simpson, Maud Dean; and silver medals as follows: Mrs. L. C. Madeira and Mrs. Robert Craig; to H. Graham for Roselyn; to Thos. H. Spaulding for Emily Ladenburg (a cup winner in New York); to Peter Henderson & Co., for Golden Wedding (this is a very distinguished looking variety); and to Good Gracious, similar in form to Kioto, but a delicate pink in color. A certificate went to Henderson's Wm. Falconer. It is a *sport* from Louis Boehmer, to which it is similar excepting in color, a lighter and more pleasing shade. We may look for other sports in this line, as C. W. Ward reports having one which according to the description is identical with Wm. Falconer.

Some years ago a variety was sent out I think by Hallock & Thorpe, under this name, but as it seems to have gone out of cultivation little or no confusion will result. There are so many seedlings and sports nowadays that the disseminators apparently find it difficult to select good names that have not already been or now are in use.

If the public bought only those varieties which have won cups, medals or certificates, and cups, medals and certificates were only awarded to those where not less than twelve blooms were shown, it would have a tendency to lessen the number of names. Something will soon have to be done. One close observer says it is one of those evils which sooner or later will correct itself.

Henry B. Surman had a promising seedling plant in bloom, a yellow in color and quite large in size. I think this won the Blanc prize, though I am not sure about it, as Mr. Surman's seedlings were exhibited under number. It certainly, as seen here, was worthy of a name. Names should in all cases be attached to seedlings worthy of being exhibited. The trouble is that originators can generally see a good deal more in a variety of their own production than anybody else can and that is the reason why so many inferior seedlings find their way into an exhibition hall.

Mr. Surman has raised some of the best varieties that we now have. Mrs. E. W. Clark was one of his first and Minnie Wanamaker and Mrs. Madeira are his. His seedlings were all named at the show in '90—and at least one name was changed after it had changed hands a few times, and this may account for his reticence in naming his productions this year. It does lead to confusion if a seedling is awarded a certificate of merit or a medal under a name and when disseminated by some other person than the originator the name is made to read something different, it is not quite right; it is unjustifiable.

In the dinner table decoration Pennock Bros. were first, Joseph Kift & Son second and J. Wolf third. Pennock Bros. used orchids quite freely and the wisdom of their action was apparent from the first and as the week wore on it was more apparent still, for they made a very creditable display to the last.

Cut flowers ought to be renewed every day whenever necessary. It makes a good deal of work, but in order to have a creditable flower show there must be no faded flowers at any time.

I cannot say all that should be said even in this issue. L.

Montreal.

The exhibition held on the 11th and 12th was the best ever seen here, but the attendance was not as good as could be, the weather undoubtedly having a lot to do with it, as it rained both days. Fine



VIEW AT THE PHILADELPHIA CHRYSANTHEMUM SHOW.

weather both before and after the show made us think we had hard luck. The committee had advertised a deal more than before and the Buffalo "Posters" were the admiration of all.

There was a great deal of interest in the show, as two cups were to be competed for and it was generally expected that some growers from the other side of the line would send along some flowers to compete in the cut bloom section. None came, however, though Messrs. Pitcher & Manda staged a fine lot of blooms for exhibition only. The best among them were Harry May (very fine), Mrs. Hicks Arnold, Miss Ada McVicker, Mrs. W. S. Kimball, W. A. Manda, W. W. Lunt, Geo. Savage, Mrs. Mercer, Crystal Wave, Col. H. M. Boies, Mrs. J. Eyermann and Miss Annie Manda (Mrs. Hardy type). These varieties were nearly all new here and attracted a lot of attention.

There were only two competitors for the best 24 blooms, but there were some very fine flowers shown. J. Bland (who was awarded first prize) had in his two dozen, very fine flowers of Mrs. J. N. Gerard, Kioto, L. B. Bird, Domination, Ada Spaulding, Christmas Eve (extra good), Violet Rose, Gloriosum and a remarkably fine Compte de Germiny, which was full to the center with petals. Wilshire Bros., who were second, had fine flowers of Mrs. B. Harrison, W. H. Lincoln, Duchess of Connaught, Mrs. A. Hardy, Phœbus and Mrs. J. N. Gerard. In the best 12 many of the above varieties were exhibited, in addition to which were some flowers of Clara Rieman, H. E. Widener, Mrs. I. Clarke and Mrs. J. T. Emlen.

The most prominent varieties among the plants were W. H. Lincoln and L. Canning. Good varieties noticed in the groups were C. de Montbrier, E. Audiguier, Mme. Barry, E. Molyneaux, T. S. Ware, Sunflower and Lady Margaret. The plants were as a rule poor this year, most of them having "gone blind," the flowers on them being only side flowers.

There were four groups of decorative plants. The first prize group contained some fine plants with a good lot of orchids in it, but was badly arranged, being massed together. Arrangement for effect ought to form one of the most important points in a group of that class of plants. Several specimen palms added greatly to the appearance of the hall, as also did three mantels decorated. These attracted considerable notice, as they were the first seen here.

Roses were conspicuous by their absence, none being shown for competition. Some very good carnations were exhibited, first being awarded to Tidal Wave for pink, Silver Spray for white and Garfield for red. The best collection contained the following varieties: Tidal Wave, Garfield, Portia, Gertie, Golden Gate, L. L. Lamborn, Grace Wilder, Crimson King and Snowdon. The 12 Lamborns shown in the collection were undoubtedly the best 12 whites shown.

On Thursday evening considerable amusement was caused by someone placing a sketch of the two cup winners in boxing attitude inside the glass case that contained the cups.

The judges were: On chrysanthemum plants, H. A. Bunyard, Geo. Trussell, T. Lawton; miscellaneous, J. Stanford, W. Whiting, D. Williamson; cut blooms, C. Scrim, J. Walsh, G. McAnulty.

In the chrysanthemum plant classes J. Kirkwood received first premiums for 12 plants, 6 plants, 3 plants, 3 standards, specimen standard and specimen not a standard; G. Copeland for best display on a space of 60 feet and A. Pinoteau for best display on space of 25 feet. Of the second premiums in these classes four were awarded to J. Eddy, two to J. Bland and one each to G. Copeland and B. T. Baud.

In chrysanthemum cut blooms J. Bland took first in each of the classes, viz., 24 blooms, 12, 6 and 3 blooms, distinct varieties. The seconds went to Wilshire Bros., J. Bennett, S. Kirkwood and J. Kirkwood respectively.

For group of decorative plants W. Wilshire was first, J. Betrix second, J. Walsh third and J Bennett fourth. For eighteen miscellaneous plants, 1st Walter Ward, 2d J. Betrix, 3d J. Horseman. Six specimen ferns, 1st J. Walsh. Specimen palm, 1st J. Bland, 2d W. Ward, 3d J. Dunbar. Mantel decoration, 1st J. Bennett, 2d C. Campbell, 3d Wilshire Bros.

In carnations J. Bennett received first for best collection, best 12 white and best

12 red, P. McKenna & Son taking first for best 12 pink, also second for collection and 12 white. Seconds were also taken by A. Pinoteau and J. Bennett, the thirds in the last three classes going to C. Campbell. W.

St. Louis.

The flower show opened Wednesday night at 5 o'clock to a very fair attendance, the large Music Hall being comfortably filled. Although the largest hall in the city, the florists in their first effort of the kind filled every available foot of space. All the prizes were well competed for, and the judges on plants alone had about 10 hours' work in making awards. They were Julius Koenig and Robert Tesson. Mr. D. S. Brown should have served but his illness prevented. A very notable display was that of Mr. D. S. Brown, who exhibited a large collection of beautiful specimens of araucarias, orchids and nepenthes. On Thursday night were displayed cut blooms of chrysanthemums, round-handle baskets and table decorations. On this night also were judged the seedling chrysanthemums, competing for the $50 prize of the Shaw estate, the committee making this award being composed of Mr. Harry Rieman and Miss Bertha Riessen, cut flower judges, and Messrs. Julius Koenig and Joseph Heinl, the latter of Jacksonville, Ill., plant judges, the award being made in favor of Pitcher & Manda's seedling, Mrs. E. D. Adams, a plant which had attracted much attention throughout the show because of its compact habit and profusion of flowers. On Friday night cut roses, table decorations of chrysanthemums, and oval plateau baskets were exhibited.

As to the success of the show as a whole, may it suffice to say that in two days and three evenings, half the door receipts, which was all the club received, were sufficient to pay their expenses and their premiums. Had we anticipated such liberal support from the public the show would have been made to extend over a longer period than two days, and would have become a source of revenue. However, a feeling of satisfaction prevails, for we have the assurance now, having given a successful exhibition, that our future efforts will be liberally supported.

C. Young & Sons captured a majority of the first premiums in the chrysanthemum plant classes, taking 1sts for 12, 6, 4 white, 4 yellow, 4 pink, 4 any other color, specimen white, specimen yellow, specimen pink, and 12 in 12 sorts, two of each. Firsts for specimen any color and for group not exceeding 25 plants were won by Harry Leeds. Of the other premiums Wm. Schray received 3 2ds and 5 3ds, J. M. Jordan 2 2ds and 2 3ds, Jno. Ormsby 2 2ds, C. Young & Sons 2 2ds, F. J. Fillmore and E. A. Michel each 1 2d, E. H. Michel 4 3ds, J. Steidle 1 3d.

In standards 1st prizes went to J. C. Vaughan for specimen white, specimen yellow, specimen pink and specimen any other color, John Steidle taking 1st for 6 standards in 6 sorts. All the 2ds went to William Schray and all the 3ds to J. M. Jordan.

In plants grown to single flower, A. Meyer was 1st for 18 in 6 sorts and 12 pink in 4 sorts; C. Young & Sons, for 12 white in 4 sorts and 12 yellow in 4 sorts; John Ormsby, for 50 plants not more than 2 of any one variety. Wm. Schray and C. Young & Sons won the seconds in the first four classes.

The award for best seedling went to Pitcher & Manda, as noted.

For largest and best collection of orchids, Wm. Schray was 1st, Elleard Floral Co. 2d, and Pitcher & Manda 3d.

In decorative plants first premiums were awarded to John Ormsby for largest and best collection of named palms; to C. Young & Sons, for largest collection of named dracænas; to E. H. Michel, for specimen palm; to J. M. Jordan, for specimen Areca lutescens and specimen Kentia Forsteriana; to A. Waldbart for specimen Phœnix reclinata, specimen Pandanus utilis, and specimen decorative plant other than those named; to Elleard Floral Co., for specimen Cycas revoluta; to Wm. Schray, for specimen Araucaria excelsa; to E. A. Michel, for Pandanus Veitchii.

In chrysanthemum cut blooms, first premiums were awarded to Fred Dorner for 45 flowers in 15 sorts; to Wm. Ellison, for 12 white, 12 yellow, 12 pink, each in 4 sorts, and 12 blooms one of a kind; to C. Young & Sons, for 36 flowers in 12 sorts, exclusive of pink, white, or yellow. The seconds were divided between Wm. Schray and C. Young & Sons. The special prizes for largest single bloom by a St. Louis grower went: 1st to Harry Leeds, 2d to C. Young & Sons, and 3d to R. Tesson.

For 10 varieties carnations, 25 of a kind, Elleard Floral Co. was 1st. For handle basket, Wm. Ellison was 1st, Ostertag Bros. 2d, and J. M. Jordan 3d. In the table decoration contest C. Young & Sons were 1st, Ostertag Bros. 2d, and Wm. Ellison 3d. For flat, oval basket, C. Young & Sons were 1st, Ostertag Bros. 2d, and Wm. Ellison 3d, and for table decoration of chrysanthemums, Wm. Ellison was 1st, C. Young & Sons 2d, and Ostertag Bros. 3d.

In cut roses R. Tesson was 1st for Duchess of Albany, Perle, Bride, American Beauty, Mermet, Hoste, and Wootton; C. Young & Sons for Niphetos, Bennett, and Watteville; F. J. Fillmore for Gontier and La France; Brown & Canfield, for 10 varieties, 3 of a kind.

Syracuse, N. Y.

The third annual chrysanthemum show proved a decided success in every particular; the public showed its appreciation of the efforts of the society. It is safe to say that the plants and flowers staged this year are far in advance of any previous show. A new departure this year was the arranging of the plants on the floor in groups, thus doing away with the straight staging plan, and each day some change was made in the grouping, which proved highly satisfactory. Messrs. P. R. Quinlan & Co. made a most beautiful exhibit with their plants and flowers and were awarded seven first prizes. Their plants were the finest ever seen in this part of the state; one plant, W. H. Lincoln, had over 400 flowers and measured nearly six feet in diameter. Among their many good things were the following: Louis Boehmer, Atlanta, Roballion, Mrs. Dr. Bridgman, Lilian B. Bird, Mrs. Irving Clark, Flora Fewkes. This firm had also a most artistically arranged stand of cut blooms of chrysanthemums and roses. Of the former many magnificent specimens of the newest varieties were shown. The roses were also very fine, especially the American Beauty. First prize for 24s were awarded.

In the gardener's class, G. Ham, gardener at the state asylum, was awarded 8 first and 6 second prizes in the various classes. His plants were excellent and it is a wonder how he could turn out so many good things with the limited space at his command. He showed fine specimens of J. C. Vaughan, Lilian B. Bird, F. Wilcox, Kioto and Mrs. Alpheus Hardy.

Peter Kay, gardener to Congressman J. J. Belden, captured 7 first and 2 second prizes. His plants were remarkably fine; among them were grand specimens of Belle Hickey, Ada Spaulding, J. J. B., a magnificent seedling, Cullingfordii and many other fine varieties.

W. Meneilly, gardener to Hamilton S. White, also exhibited in three classes with some fine plants.

J. Hullar, one of our enthusiastic amateurs, showed some remarkably fine plants and was awarded 5 first and 2 second prizes. Among his many good things were Mrs. Andrew Carnegie, Ada Spaulding Moonflower, Kioto, Louis Boehmer, J. C. Vaughan, Pandanus.

W. Clark, florist, had a nice group of plants which received second prize. Messrs. Pitcher & Manda had a grand display of cut flowers which carried off the special prize of $20 offered by Mayor Davis. Their flowers were one of the features of the show. Their seedling Annie Manda was universally admired; it is a beauty. Among others were Mrs. Grace Hill, Advance, John Dyer, Mme. Baco, Excellent, Mrs. W. K. Harris, Harry May, Mrs. Hicks Arnold, Alcazar, John Firth, Mr. A. G. Ramsay. Edward Swayne sent flowers of his new carnation Aurora. Messrs. A. D. Perry & Co. had a very pretty stand of bulbs and florists' supplies; a large tree draped with Florida moss and bitter sweet berries at the base had a very pleasing effect.

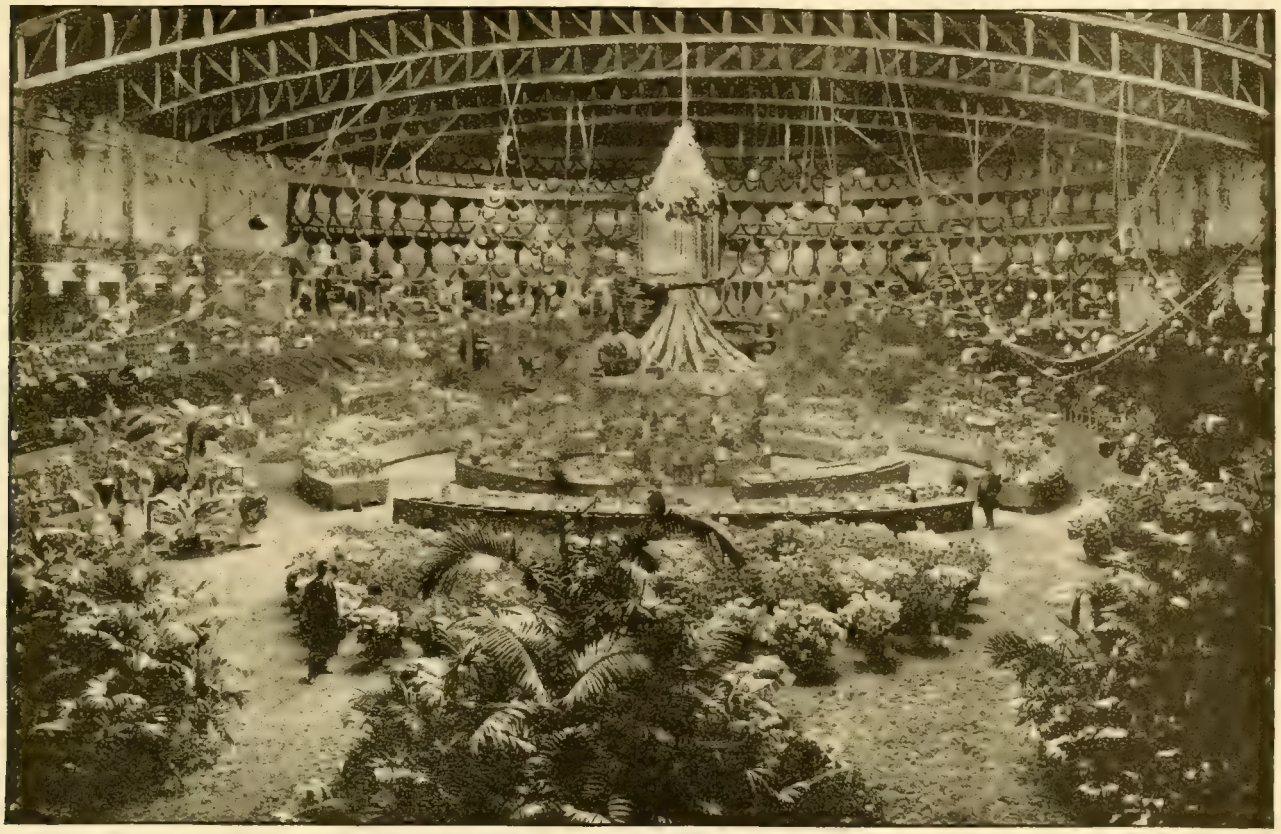
Syracuse will be heard from in the matter of seedling chrysanthemums. Peter Kay has three he is justly proud of, J. J. B., Lady Ann and Peter Kay. They are all yellow, of immense size and substance. G. Ham has one, an incurved variety; it certainly is a beauty and he will submit his flowers to the FLORIST for opinion of its merits.

L. E. Marquisee had a fine stand of cut chrysanthemums and roses. The following were fine examples: J. C. Heuzsy, Hon. E. H. Fitler, Phoebus, Mrs. G. Bullock, Grandiflorum, Lilian B. Bird, Mrs. C. H. Wheeler, Louis Boehmer. This exhibition and P. R. Quinlan's were disqualified by the judge in the cut flower class for not naming their varieties. Mr. W. Hurson (late of Oswego), head gardener to Mrs. Theo. Dissel, acted as judge and gave great satisfaction. Great credit is due to the committee having charge of the show, also our worthy president who as usual worked like a beaver all the time. A show without A. D. Perry to look after the interests of every one would be a sorry affair. H. Y.

Springfield, Mass.

The Hampden County Hort. Society's chrysanthemum exhibition was the most satisfactory show ever given here. The plants shown were better than those on exhibition at New York, New Haven, or Hartford, and the local growers are entitled to much credit for the excellence of what they were able to show. A. N. Pierson of Cromwell, Conn.; Pitcher & Manda of Short Hills, N. J., and E. A. Wood of West Newton, Mass., were the non-resident growers that sent in cut blooms.

Mr. A. Miellez, J. E. Taylor, H. C. Hamilton, C. H. Dennison, Gurdon Bill and E. S. Brewer were the competitors with plants. For best 12 plants, distinct named varieties, the awards were in this order: A. Miellez, C. H. Dennison, H. C.



VIEW AT THE NEW YORK CHRYSANTHEMUM SHOW.

Hamilton, E. S. Brewer, J. E. Taylor; for best six plants, A. Miellez, Gurdon Bill, C. H. Dennison, C. E. Taylor, H. C. Hamilton, E. S. Brewer; for best three plants, A. Miellez, H. C. Hamilton, J. E. Taylor, G. Bill, C. H. Dennison, E. S. Brewer; single specimens, A. Miellez (Ivory), C. H. Dennison (L. Canning), E. S. Brewer (M. Boyer), H. C. Hamilton (Mrs. Dunnett), G. Bill (M. Comte de Paris), J. E. Taylor (Viviand-Morel); specimen standards, H. C. Hamilton, C. H. Dennison; three standards, Dennison, Hamilton.

Cut blooms, best display, A. N. Pierson, J. E. Taylor, E. H. Howland; 25 cut blooms, distinct named sorts, A. N. Pierson, Elijah A. Wood; 12 named varieties, cut, A. N. Pierson, Pitcher & Manda, J. E. Taylor; single bloom, Pitcher & Manda (Ada McVicker), A. N. Pierson, J. E. Taylor.

"As a rose show alone the exhibition was a success—the specimens were superb;" in fact the best ever shown in this place, a gentleman from Hartford declaring that they fully equalled those shown at New York. C. F. Fairfield is the grower. E. D. Shaw of Holyoke also sent in roses, as well as carnations and cut chrysanthemums. E. H. Howland, also of Holyoke, had a beautiful lot of "Pinks;" his Excellent, a seedling, is quite like the American Flag.

A new feature this year was the interesting of children in the exhibition. Last May several hundred plants were given to children of the schools with instructions for growing them for this exhibition. About 1,000 plants were returned with excellent results, although in some cases the little ones didn't succeed very well. For this there was given out 70 prizes, varying from $2 to 25 cents, and in addition two capital prizes for the two best, one a dress pattern valued at $10, to the girl that should show the best plant; the other a new suit of clothes, value $10, to the boy that should bring in the best plant grown by a boy. This plan can be practiced with profit by societies in localities where the interest in flower shows is not sufficient to pay expenses.

The plan not only helps to encourage the growing of plants, thus becoming an educator and fulfilling one of the offices of a horticultural society, but the increased interest taken by the younger members of the family, draws out the older people to see. The Hampden Co. Hort. Society is well pleased with the working of the plan this season, and will repeat some such plan for their future shows.

W. F. GALE.

Pittsburg.

The first attempt at a floral exhibition and chrysanthemum show under the auspices of the Pittsburg and Allegheny Florists' and Gardeners' Club is a thing of the past. It was held in the Pittsburg Auditorium on Penn avenue, below Sixth street, from Nov. 10 to the 13th, and was successful from every point—artistically, financially and socially.

The hall—some 250 feet long and 56 feet wide—was most beautifully decorated. The ceiling was covered closely with autumn foliage and evergreen branches arranged in panels, the center panel being composed of red oak, with a border of evergreen, this again surrounded by a broad band of bright maple foliage reaching to the wall. Underneath this foliage and suspended from it were numerous handsome Chinese umbrellas and lanterns arranged for effect. The balcony surrounding the whole building was handsomely festooned with laurel and gaily decorated with Chinese fans, umbrellas and lanterns, the whole of the overhead portion of the hall making one of the grandest effects imaginable.

The ground floor was subdivided for the individual displays of chrysanthemums in pots and all varieties of exotic plants, the display of which was most magnificent.

The arrangement of the tables on the stage at the north end of the hall for the display of cut blooms for competition was very satisfactory, although more room would have made it much more convenient for the numerous visitors.

Three dining-rooms were erected on the stage at the extreme end of the hall for the competitors entered for the John Dimling prize of $100, and were each very handsomely decorated, the competitors, Messrs. Ludwig & Richter, John R. & A. Murdoch and B. A. Elliott Co. doing their very best to carry off the prize. Messrs. B. A. Elliott Co., however, succeeded in capturing it.

In the other cut flower displays nearly all of the competitors carried off 1st prizes in one class or another, Robert C. Patterson carrying off 5 out of the 6 he entered for.

A. W. Smith was very successful in his competition for premiums for chrysanthemums in bloom, winning, if I remember right, 13 1sts and one 2d premium in this class.

In the cut bloom display the premiums were about evenly divided, some getting 1st premiums in one class while others were successful in others, C. K. Hoffmeyer capturing the first prize for "the best 20 varieties, long stem, 3 of each variety," Pitcher & Manda, of Short Hills, N. J., 2d.

The awards of the judges in the different classes, while satisfactory to the

great majority, had some little fault found with them by others.

The show was an artistic success beyond the greatest expectations of all, and it was a financial success in every way. Every account of every description will be paid in full and there will be a nice little balance to start the next show with.

All in all, Pittsburg's chrysanthemum show was second to none on this continent this year of 1891.

R. C. PATTERSON.

Oshkosh, Wis.

The show here this season is very interesting. The first impression is made very pleasing to the visitor by the agreeable entrance and view presented as you step inside. The hall occupied is neat, well finished and lighted and just large enough to comfortably hold the exhibits. There is a plan in the arrangement which is very pleasant; from any position, you view a hall full of beauty and at the same time you do not see all of interest from any one point; you are filled with a desire to go a step further continually and the picture keeps changing as you advance. These general effects I think are extremely valuable for the benefit of the public, over and above the study in detail of specimen individual plants and flowers by experts. This show was not lacking, however, in that line. I do not think it possible that any of this season's shows contained finer chrysanthemums than those grown by Mr. Lewis, either cut blooms or potted plants; plants six feet high, loaded with perfect blooms and beautiful leaves down to the very pot. The cut blooms are certainly very close to perfection. A beautiful clump of plants, not entered for competition, from Mr. J. C. Vaughan, contained the only standards in the hall.

From the appearance of the carnation blooms it is quite evident that this flower is growing in popularity here as well as in other places. The least conspicuous entries and the most lacking in merit were the baskets of flowers; good flowers, but poorly arranged.

Of the premiums for chrysanthemums all the firsts (6 in number) went to Mr. J. Lewis. Of the seconds in these classes Isaac Miles received four and J. Nelson two. Of the thirds Geo. Boozer received three and J. Nelson two.

Mr. Lewis also captured first in each of the two classes for cut blooms, Messrs. Pitcher & Manda and Isaac Miles taking the seconds and J. Nelson the thirds.

In palms and foliage plants Mr. Lewis received the firsts and Mr. Miles the seconds.

For roses and carnations and basket of flowers J. Nelson captured the firsts, the seconds and thirds being divided between Messrs. E. Hantze and Isaac Miles.

A certificate of merit was awarded to Geo. Boozer for a beautiful specimen of Phœnix rupicola. A vase of the new rose, Mme. Pierre Guillot, attracted considerable attention.

In the amateur classes A. H. Bartlett received all the first premiums. C. B. W.

Washington.

A newspaper man visited our show on the morning of the opening day and among the points of interest to which his attention was called was a nepenthe or pitcher plant. When his paper came out in the evening the "intelligent compositor" had made him mention the "*butcher*" plant as a great novelty, and crowds wanted to see it from that time. Now it so happened that some party had collected a large flat of Dionea muscipula or Venus' Flytrap in North Carolina and presented it to Secretary Oliver to be exhibited if desired, and accordingly it was in a prominent situation.

People were asking for the "butcher plant." We couldn't "tumble to the racket" generally, as most of us had no knowledge of the newspaper incident. But it wouldn't do to appear ignorant and as we knew of nothing else of a slaughtering nature beyond the dionea our visitors were piloted to them and their insectivorous tastes elaborately explained again and again.

There appeared some doubt once in a while as to the entire appropriateness of so savage a name for the innocent looking little whorls of leaves.

Mrs. President Harrison, the Vice-President and Mrs. Morton and party visited us Friday evening, spending over an hour in quite evident enjoyment of the show. Both Mrs. Harrison and Mrs. Morton are very fond of flowers.

At a special meeting of the club on Tuesday, the 17th, a report was made by the secretary showing that we would net a small sum out of the show, which was more than was expected at the outset.

An auction was held on Monday following the exhibition, at which a large amount of stuff was sold, mainly chrysanthemums and palms, at prices, however, which were hardly remunerative except as clearances.

We extended our show two days, believing it would be of advantage both now and in the future by enabling us to advertise ourselves in admitting the school children free on Saturday. C.

Galt, Ont.

The Galt Horticultural Society's first annual chrysanthemum exhibition was held in the Town Hall on Tuesday and Wednesday of week before last. The decorator used his skill to the best possible advantage as the flowers were beautifully arranged throughout the hall, giving ample room for spectators and a splendid chance to see the plants. The entries numbered nearly 100; the professional and cut flower classes being well filled, but the amateur class failed to bring out many exhibitors. The exhibit of Pitcher & Manda, Short Hills, N. J., was a magnificent display and quite a surprise to many of the people here. The exhibit consisted of 25 varieties, nearly all new, and in most of them the blooms were very large. No doubt by another year some of our florists will endeavor to have some specimens equal to these. On account of the disagreeable weather on Tuesday the attendance was not large, but on Wednesday large numbers visited the exhibition. James B. Hay, of Brantford, was the judge.

In the classes for chrysanthemum plants, open to all, J. Langham received 3 first premiums, 2 seconds and 1 third; J. W. Scott 2 firsts, 3 seconds and 2 thirds; John Wells 2 firsts, 2 seconds and 1 third; A Common 2 firsts, 1 second and 1 third; John Goldie 1 first; Mrs. A. T. H. Ball 1 first; H. McCulloch 2 seconds and 3 thirds; D. McGeorge 1 third.

In miscellaneous plants, open to all, J. Wells received 3 firsts, J. Goldie 2, J. W. Scott 2, and D. McGeorge 1.

In chrysanthemum cut blooms, open to all, J. Wells made a clean sweep, taking first in each of the six classes. Of the other premiums J. W. Scott received 2 seconds, D. McGeorge 1 second, and A. Common 2 thirds.

In cut carnations and roses, and table and hand bouquets Mr. Wells was again to the front, taking first in each case, the seconds being taken by D. McGeorge, A. Common and H. McCulloch.

In the amateur list 3 firsts were taken by Robt. Baird and 1 by Thos. Vair.

New Orleans.

The first chrysanthemum show of the New Orleans Horticultural Society, while not a financial success, was the greatest success yet achieved by the society during its existence, and had the show been held ten days sooner it would have been even more successful, for many of the finest plants we had were past their best.

Chrysanthemums have never before been grown for exhibition purposes here and the public was much astonished to see the large beautiful flowers of all colors and forms. The display excited much enthusiasm.

Mr. John Eblen received first prize for best 20 chrysanthemums and gold medal for best 10, Mr. C. W. Eichling second prize for best 20 and best 10, Mr. Chas. Panter 1st for best 5, Geo. Thomas 2d; Mr. J. H. Menard for best specimen (Rosalind—a plant with over 200 flowers); for 4 standards not less than 2½ feet high C. W. Eichling 1st; for 12 varieties grown in not larger than 6-inch pots, one flower each, John Eblen 1st, Chas. Panter 2d. In cut flowers Mr. C. W. Eichling received 1st for 24 single flowers, Geo. Thomas 2d; C. W. Eichling 1st for 12 single flowers, Geo. Thomas 2d; John Eblen 1st prize for 30 varieties, 3 of each kind, C. W. Eichling 2d; the Champion flower (Puritan), a real beauty, C. W. Eichling.

Among the varieties shown the judges especially commended Waban and Puritan.

There was also a fine display of decorative plants and a few orchids in good condition. Cut roses were not as good as usual at this time of the year owing to the long drought.

The cold wave which struck New Orleans on the 17th, the opening of our show, kept many hundreds from attending, the mercury having fallen from 60° to 34°, but we have the satisfaction of knowing the chrysanthemum can be cultivated to as near perfection here in the south as anywhere in the union.

But strange to say new varieties marked "late bloomers" in the catalogues were the first to bloom in this climate.

CHAS. WISE.

Detroit.

At our exhibition both the plants and cut flowers were of much better quality than last year, and the show was largely attended.

In the chrysanthemum plant classes first premiums were awarded to Holznagle & Noel for 10 plants in 10 varieties, 5 in 5 varieties, 6 in 6 to 8-inch pots, 25 in 4 to 5-inch pots grown to single bloom, 50 ditto, 5 plants white, 5 yellow, 5 pink, specimen white, specimen yellow, 5 standards and 2 standards. To Detroit Floral Co. for 12 plants in 6 to 8-inch pots in 6 varieties, 6 half standards, 5 plants in fancy colors, specimen pink, specimen fancy color and specimen standard.

In chrysanthemum cut blooms first premiums were awarded to John Breitmeyer & Sons for 100 blooms in 20 varieties, 50 in 15 varieties, 12 whites in any variety, 12 yellow ditto, 12 pink in one variety and 12 assorted. To Pitcher & Manda for 12 bronze in one variety.

In cut roses Holznagle & Noel were first for Waban, Mermet, Bride, Hoste, Gontier, Bon Silene and Albany; John Breitmeyer & Sons for American Beauty, La France, Sunset, Cusin and Watteville; Detroit Floral Co. for Perle and Wootton.

For 100 carnations in 5 varieties John Breitmeyer & Sons were first, Holznagle & Noel second and Bruno Schroeter third.

For mantel decoration John Breitmeyer & Sons were first, Detroit Floral Co. second and Bruno Schroeter third. For dinner table decoration J. Breitmeyer & Sons were first, Bruno Schroeter second and Detroit Floral Co. third. John Breitmeyer & Sons also won firsts for design of chrysanthemums, basket of chrysanthemums, basket of roses and bridal bouquet, the seconds being divided between the Detroit Floral Co. and Bruno Schroeter.

The judges of plants and flowers were J. M. Gasser, of Cleveland, and Prof. L. R. Taft, of the Michigan Agricultural College. The judges of floral arrangements were 16 society ladies of this city.

San Francisco.

The third annual fall exhibiton of the California State Floral Society, held Oct. 28 to 30, was very successful. Perhaps the largest exhibitor was Mr. Timothy Hopkins who showed some magnificent chrysanthemums. John H. Sievers and the Japaese Gardeners' Association also made splendid displays, the remainder of the exhibits being smaller and made mainly by amateurs.

The special premium for potted chrysanthemums was taken by Timothy Hopkins and that for cut blooms by John H. Sievers. The regular prize for potted chrysanthemums went to the Japanese Gardeners' Association and that for chrysanthemum flowers to A. Yoshuke. Timothy Hopkins took the prize for roses in the class for professionals.

On the second day there was a competition in floral arrangements. The first prize of $75 for the most artistic floral decoration was awarded to Geo. P. Jones of Sausalito, for a mantel decoration of yellow chrysanthemums, adiantum ferns and roses, the second prize of $25 going to John H. Sievers for an arrangement representing a bit of tropical forest scenery. A hammock of roses was suspended from two tree ferns, the trunks of the latter being covered with rare orchids.

The exhibition was very largely attended. The daily papers were very liberal with favorable notices and the show may be considered a success from every point of view, though of course there is still room for improvement.

New Britain, Conn.

The third annual chrysanthemum show of the New Britain Horticultural Society, held November 11, 12, and 13, was a decided success. The large hall of the East Main Street armory was filled with the exhibits, which were of an exceptionally meritorious character considering that the society is composed entirely of amateurs. The principal exhibitors were George Raab, gardener for J. A. Traut, J. A. Blake, E. M. Hulbert, A. J. Sloper, M. M. Houck and John Gerard.

The first prize for 15 plants was awarded to Geo. Raab, who also received first for best seedling raised by a member of the society in 1891. The plant is a fine, flat Chinese flowered pink and white, very full and handsome.

First prize for one specimen bloom was also taken by Geo. Raab with a flower of Louis Boehmer measuring 8 inches in diameter; 2d by E. M. Hulbert with a flower of G. F. Moseman, 3d by A. J. Sloper, who exhibited a fine bloom of Mrs. De Witt Smith.

Some beautiful specimens were shown in the class of plants grown to one bloom in 6-inch pots, the Victor Patalier exhibited by J. A. Blake attracting much attention.

The attendance was fair, but not as large as the society would desire, not quite clearing expenses. The interest of the visitors seemed to be centered in the specimen blooms, both cut and on potted plants, and in all probability the efforts of the society next year will be concentrated in that direction.

E. M. HULBERT, Sec'y.

New Bedford, Mass.

The New Bedford Florists' Club held their annual chrysanthemum show in the city hall on Wednesday, Thursday and Friday, Nov. 11, 12 and 13. The plants and flowers were both far superior to those shown last year. The prizes in flowers were taken by Messrs. Keith, Eaton and Rennix and there were some very well built blooms shown by these gentlemen. A very fine exhibition of blooms was made by Mr. Martin of Fairhaven, which were not entered in competition.

The plants as a rule were very well grown and were as fine as any the writer has ever seen outside of the shows in the larger cities. The principal prize which the club offered was a solid silver cup for the best six plants and must be won two years before becoming the property of the winner. It was taken last year by Mr. John Rennix, gardener for Mrs. Haskell. The contest for this prize this year was very close and all three exhibitors staged some very fine plants. The first prize was awarded to Mr. Dennis Shea, gardener to Mr. Hathaway; second to Mr. Driscoll. In Mr. Shea's collection was a very handsome plant of Pres. Harrison and beautiful plants of Louis Boehmer, Edwin Molyneaux and Puritan; Mr. Driscoll showed fine plants of Puritan, E. Molyneaux and Lilian B. Bird; and Mr. Rennix showed a very handsome plant of Grandiflorum.

The judges were Messrs. A. H. Fewkes and E. A. Wood of Newton.

Louisville, Ky.

In spite of unfavorable weather and other drawbacks the chrysanthemum show was a success financially as well as artistically. The florists are quite jubilant over the success of the exhibition, and will hold a meeting some time next month to perfect plans for another show next year.

For best collection of chrysanthemums in pots first prize was awarded to Jacob Schulz, second to A. Lauer, third to S. J. Thompson. For best display of cut blooms Nanz & Neuner were first, Jacob Schulz second, S. J. Thompson third.

In floral arrangements Wm. Mann won first, C. W. Rieman second and S. J. Thompson third.

The premiums were all donated by various public spirited citizens and business houses. A very handsome souvenir programme was printed and turned in a revenue through the advertisements. Music was made a feature. The hall was very handsomely decorated under the direction of Mr. S. J. Thompson.

New York.

All the cut flower men report increased activity and there is very little good stock left unsold at the close of each day. Chrysanthemums still continue to come in abundantly. Violets of good quality are scarce and winter prices are willingly paid for them. Even $2 and $2.50 per 100 is being paid for first class stock, and there is quite a scramble for them at that. American Beauties are the favorite speculative stock however, and the growers of this variety, the wholesalers, and the retailers are all having quite a circus over it just now. As is apt to be the case when any special variety is in big demand the large growers have taken a hand in boosting the prices and have succeeded to the extent that $60 per 100 is paid for selected roses. Rumors of contemplated combinations between the large growers fill the air, and several of them have withdrawn their goods from their regular commission man and placed them elsewhere. An attempt is being made to establish a schedule of grades, taking the length of stem as a criterion. A rose with stem from 13 inches up is classed as No. 1. Below this there are five or six grades, the lowest being those with stem from one to four inches. The wholesale dealers deride this classification, however, and claim that it is absurd to put a 13-inch stem in the same class with a 3-foot one, also that size, form and color of bud is fully as important a point to be considered as length of stem. Counter threats of combinations on the part of the retailers and commission men are heard, and in the meantime the growers are making a good thing out of the American Beauty. One thing is certain, there will be no trouble to dispose of every good bloom that can be obtained until the holidays, and the fun is only beginning. Harrisii lilies are quite plenty and have dropped from $3 to $2 per dozen. Cypripediums are also very abundant, selling from $12 to $15 per 100. The first Roman hyacinths of the season are coming in.

Frank L. Moore, of Chatham, is sending in his sport from Mermet in good shape. He has named it Hugh Waban to distinguish it from Waban. As compared with Waban it appears to be a larger and better formed bud, but lighter in color, of a shade midway between Mermet and Waban.

There was a great clearing out sale of orchids at auction by Robt. B. Young at the greenhouses of Frederick Mau, on November 19. A big crowd was in attendance and the sale amounted to about $3,500. This is Young's second big orchid sale within ten days, the Sander sale of Cattleya labiata and Dendrobium Phalænopsis having netted nearly the same amount. Some of the noticeable prices paid were $21 for Vanda Sanderiana, Lælia anceps Sanderiana $17.50, Cattleya Mendelii miniata $18, Dendrobium nobile Arnoldianum $26, Cypripedium Morganianum $46, Cœlogyne cristata alba $20, Cypripedium Measuresianum $45, Cattleya Skinneri alba $56, Lælia autumnalis alba from $24 to $51, Cypripedium Schroderæ $52, and Saccolabium giganteum album $45.

Adolph LeMoult has hired the front part of R. B. Young's auction room for the winter months and expects to get a big down town holiday trade.

Mr. G. G. Brinkworth, who has been in the employ of Wm. Elliott & Sons, leaves for England on December 1, he having been summoned home to take charge of his father's nursery and plant business at

Winchester, his father being dangerously ill. Mr. Brinkworth has made many friends during his short sojourn in this country.

Mr. H. A. Daacke, who has been for many years connected with Mr. F. E. McAllister, will start a seed store at 410 West 14th street December 1.

W. S. Allen has got through with his flower business on 23d street and has gone to work in the employ of F. E. McAllister.

The dealers holding the main stock of Cannas Mme. Crozy and Star of '91 are said to have combined and agreed upon a minimum price for these varieties of 60c for Crozy and 50c for Star for the coming year.

The oldest daughter of Mr. A. Hulsebosch died suddenly November 14 from the effects of a slight fall received on the 12th, that was not at the time supposed to be serious.

The first premium for double violets at the Madison Square show was awarded to Chas. L. Doran. This is a distinction worth winning, considering the present price of good violets in this market.

Philadelphia.

The past week has been quite a contrast to the preceding one. Everything then was hurry and bustle, the work for the exhibition, the bowling match, the dinner, with the legitimate demands of trade made it a very busy week.

With the exception of Wednesday, which was a very busy day, some twelve weddings taking place and at all of which there were quite handsome decorations, the business of this week has not been anything to talk about.

The mums are very plenty, the best selling at $1.50 a dozen wholesale, while really fine flowers can be had for $1 per dozen.

Roses are plenty, and good ones seem to be in fair demand. La France, Brides, Albanys, Mermets, Cusins and Guillots sell for from $4 to $5, while Perles, Niphetos, Sunsets, etc., bring $2 to $3, carnations $1 to $1.25, bouvardia and heliotrope the same, valley $7.

We cannot pass by the exhibition without entering our solemn protest, and we feel confident it will be for the last time, against the exhibition of cut blooms without stems and mounted on a black cloth surface. To cut the stem off, like they sometimes cut the tail off a dog, close behind his ears, is just about as bad for the chrysanthemum as it is for the dog.

The beautiful vases of cut blooms seen at Madison Square Garden and also at our local show should certainly be convincing evidence that the flat box and its bottles must now give place to the vase, that will support a stem from one to three feet in length, showing the flower with its foliage and graceful, natural appearance.

Who would think of cutting the stems from roses? On the contrary, when placed on exhibition one almost expects to find the roots in the bottom of the vase, so far do they stand out, and yet the chrysanthemum is so much the larger flower.

Financially the show was a great success and quite a snug sum will be found in the treasury when the bills are all paid. The newspapers were appealed to, and they responded nobly. Mr. Geo. Watson had the advertising in charge and through his efforts the exhibition was better advertised than ever before.

The bowling match came off Tuesday afternoon as per agreement, but not as per expectations, at least hereabouts. To think that our team, the pick of the club, the men we would have backed to any amount, the team that even dared to go to Canada and bring back the silver cup and to which we have ever pointed with pride. To think that this team should have been beaten by 53 pins, when the other fellows only made an average of 124 to a man, it makes us weep. So we will draw the veil and mourn in solitude.

THE SCORE.

	New York.	Philadelphia
First game	797	765
Second game	746	845
Third game	798	785
Totals	2311	2395

Philadelphia won by 84 pins.

The rules governing the match now called for another game of ten frames to decide the winner, as each club had one series of 3 games to its credit. And it was during this game that the lamentable circumstance above referred to took place.

Score final game: New York 748, Philadelphia 696, New York winning by 52 pins.

However as they beat us by only 21 pins in the grand total, which was, New York 5686, Philadelphia 5665, they certainly had to play to win and they have our hearty congratulations.

The chrysanthemum dinner proved to be a very enjoyable occasion. It was held in the lower hall, commencing at 10 p. m., a rather late hour, but as the dining room is accessible to visitors it is necessary to wait until the show is closed for the night. There were quite a number of visitors present, among whom were J. N. May, Messrs. Julius and Theodore Rochrs, Alex Burns, I. Forsterman, Ernst Asmus, H. Keller, J. L. Dillon, B. F. Dorrance, Wm. Elliott and others.

After the inner man had been satisfied and the coffee and cigars were passed around Mr. Craig started the ball rolling in a fine address. The chrysanthemum was the first toast, the rose, the carnation and then Mr. John Thorpe, the mention of whose name called forth great enthusiasm and his health was drunk and all joined with fervor in the singing of "He is a jolly good fellow."

Toward the close Mr. Craig undertook to show up some of the peculiarities of our genial Dan, and how he was sat down upon for his trouble only those present will ever know. Dan's remarks had a telling effect. They were of the kind that have to be heard to be appreciated.

One of the features of the occasion was the poem written and read by Mr. J. D. Law, of Camden, N. J. It contained many witty references to members of the club and the visitors. The chorus was joined in heartily by all present, they being presented with slips containing the words. It was sung to the air of "Marching Through Georgia."

There was quite a scare at Hort. Hall last Thursday evening, when in lighting the hall up some fancy stands or booths of the Food Exposition now in progress there caught fire, and about $250 worth went up in smoke. The fire was extinguished before any damage to the building occurred, and a different system of lighting is to be put in at once.

At the meeting of the Hort. Society Nov. 17, the election of officers to serve for the ensuing year took place, the following gentlemen being elected: President, Geo. W. Childs; vice presidents, Robert Craig, Robert P. Harris, Wm. A. Reed and Chas. H. Miller; treasurer, Thomas Cartledge; corresponding secretary, Edwin Lonsdale; recording secretary, D. D. L. Farson; professor of botany, Chas. Schaffer, M. D.; professor of horticultural chemistry, Prof. Persifor Frazer; professor of entomology, H. C. McCook, D. D.; librarian, D. D. L. Farson.

Boston.

The florists are all fairly busy, although there is no scarcity of flowers. The weather has been warm and pleasant and the street fakirs too are making the most they can of the situation. Carnations are more abundant and are of fine quality, especially the Grace Wilders which are unusually clean and bright colored. Violets continue rather poor. Chrysanthemums are still very plenty and constitute the chief decoration of the store windows. Some of the specimens shown thus are fine exhibition flowers and the average of quality all through is high. There have been several weddings and other society events during the past week and more are to occur during the coming week at which the floral decorations are to be quite extensive. Indications point to a prosperous season and a liberal use of plants and flowers for such occasions.

There are some very fine orchids, particularly oncidiums, coming in and among the noticeable flowers in one window is a lot of handsome white camellias cut with stems and foliage.

The final settlement of the Phelps concern at South Framingham has been made by Assignee Breck. Individual creditors get 5 per cent and co-partnership creditors 7 9-10 per cent of the amount of proven claims. The assignee found the estate in much worse condition than had appeared at the beginning.

C. Campbell, of Montreal, has been paying a visit to the Hub this week.

Advertising the Flower Show.

An excellent suggestion was made by the editor of the FLORIST in regard to this subject some time since. He recommended the exchange of proofs of the advertising matter used by the different societies, so that each could "catch on" to the good points of the other, and thus be able to advertise their respective shows more effectively and economically the next time. It is generally the gardeners and growers who are most active in getting up a show, and the majority of them are, as a rule, so engrossed in making a fine exhibition that they overlook the equal importance of blowing their horn of announcement "loud and clear and long." It seems to me, therefore, that the publication committees of the different shows should give the methods publicity, not only to the committees, as suggested by the FLORIST, but also to the growers in general, for no one can tell when the "conceit of chance" may put them on the publication committee of their flower show. The columns of the FLORIST are the best channel for conducting such a discussion, which should be full, frank and free in all particulars.

The philosophy of advertising is a pretty large subject, and even its experts are divided on some points. But there are certain fundamental principles which all good advertisers are agreed upon, and to get these principles firmly imbedded in the minds of all the readers of the FLORIST will be of incalculable benefit not only to the exhibitions, but to each individual in advertising in other directions.

It is with a view of having the matter thoroughly discussed that the publication committee of the Pennsylvania Hort. So-

ciety have asked to give full particulars as to what has been done here at the show just passed, and to ask other committees to give suggestions for improvement of our methods, and also their own experience.

Our show opened on the evening of Monday, Nov. 9, and the first announcement as shown by the following table was made on the morning of Saturday, the 7th:

NAME OF PAPER.	Circulation	Nov 7	Nov. 8, Sunday.	Nov 9.	Nov. 11.	Total Lines.	Rate per Line	Total.
Call. . . .	52000	44	. .	44	44	132	12c	$15 84
Herald . . .	10000	44	. .	44	44	132	7½	9 90
Item	182000	.	88	44	44	176	20c	35 20
Telegraph .	15000	44	. .	44	44	132	20c	26 40
Inquirer . .	49000	.	88	44	44	88	10c	. . .
"	. . .	.	. .	.	.	88	15c	22 00
N. Amer'n.	47000	.	. .	44	44	88	10c	8 80
Press	52000	.	88	44	44	176	20c	35 20
Ledger. . . .	80200	22	. .	22	22	66	30c	. . .
"	. .	11	. .	11	11	33	20c	26 40
Record. . . .	140000	.	88	44	44	88	15c	. . .
"	. . .	.	. .	.	.	88	20c	30 80
Taggart's T.	40000	.	88	.	.	88	10c	8 80
Times . . .	80000	.	88	44	44	88	15c	. . .
"	. . .	.	. .	.	.	88	20c	30 80
Abendpost. .	. . .	44	. .	44	44	132	5c	6 60
News. . . .	23000	44	. .	44	44	132	10c	13 20
Totals . .	770000	253	528	517	517	1815	. .	269 94

The first thought that will occur after glancing over the above table will be that the committee should have advertised three days sooner and two days later than they did. To have done this, however, would have required about $600 more outlay and the appropriation did not admit of it. Whether it would have paid to make the additional expenditure is a good question to discuss. Personally I think it would. The 44-line advertisement was put in week-days, and the 88-line on Sundays. The Sunday papers are bulky, and an advertisement has to be large enough and striking enough not to be lost in the wilderness of advertising with which the Sunday editions are filled. The theater people follow this plan, and we flower show people must follow suit or be unnoticed, as we are classed by the press under the head of "amusements."



—IN—

Horticultural Hall

(Broad, above Spruce)

November 9th to 14th, 1891

(MONDAY, 8 P. M. TO FRIDAY, 10 P. M.)

THE Grandest Exhibition of the "Queen of Autumn" ever given in Philadelphia. Music by Hassler's Orchestra.

Admission, 50c. Children, Half Price.

The above is a copy of the 44-line advertisement. It is not effective typographically on account of the closeness of the lines in the engraving, which blur in newspaper printing. Three or four lines might also have been saved, but it was got up in a hurry and there was no time to see a printer's proof even before the matter went to foundry. This will point the moral of commencing the preparation of the advertisements at least two weeks before the first announcement is to appear.

Above is the 88-line advertisement. It is better than the other typographically, and stands out boldly in almost any position in the newspaper. An improvement might be made by reducing the depth of the engraving somewhat and by making the lettering on same blacker—that is, by removing the white line.

Six electrotypes of the 88-line were used and eleven of the small. The expense of setting up the type and having the advertisement electrotyped is trivial and should always be done, as the papers nearly all prefer them. Such papers as the *Ledger* allow scarcely any display, and an effective flower show adv. is not procurable from them; but they generally make up for this in their news columns.

It would be interesting to know the cost per line per thousand circulation in each city, as a comparison would give some idea as to whether the committee were getting their full money's worth. I am satisfied that the space used in the foregoing table was purchased at the lowest possible rates, and they would be a good basis for comparison. The total expenditure is $269 for 1815 lines, and the aggregate circulation 770,000, which would give about three-sevenths of a cent per line per 1,000 circulation.

Outside the newspapers the expenditures were $9 for a neat window card 11x15, of which 500 were distributed among the stores, and $11 for 100 of the beautiful chromo-lithographs sent out by the Courier Co., of Buffalo. When mounted on boards and distributed round in prominent positions these latter proved exceedingly effective, and I would favor spending $100 in that direction another year. I am opposed to the old-fashioned bill-posting. I cannot give figures, but I am convinced that it is not an economical method of advertising, especially where there is but a limited appropriation. The Penn. Hort. Society did no bill-posting, either this year or last year.

This is a plain, unvarnished statement of what has been done. No pretence is made that it is the best that could have been accomplished, and criticisms and suggestions will be in order and will be gladly welcomed. G. C. WATSON.

Philadelphia.



In HORTICULTURAL HALL (BROAD, ABOVE SPRUCE)

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Admission, 50c. Children, Half Price.

News Notes.

UTICA, N. Y.—The Florist Club decided not to attempt a flower show this year, but hope to have matters in shape for one next year.

BIG RAPIDS, MICH.—Since his place was burned last May, L. L. Blair has built on a new site four houses, one 21x100 and the others 20x52, 12x52 and 20x65 respectively. They are stocked mainly for the production of cut flowers.

ST. PAUL.—Our projected chrysanthemum show fell through for the reason that preparations were begun at too late a date. One insurmountable obstacle was the fact that at the late date we began no suitable hall could be secured for the days wanted. We hope for better results next year.

MINNEAPOLIS, Minn.—The annual meeting of the Minneapolis Florist Club was held at the close of the recent chrysanthemum show, and officers for the ensuing year were elected as follows: Gust. Malmquist, president; M. C. Allison, vice president; E. Nagel, secretary; R. Wessling, treasurer; executive committee, J. S. Gray, James Souden, and Gust. Rumler. There was some little dissatisfaction over the awards of premiums at the exhibition, but it was thought best not to change the awards.

BRATTLEBORO, VT.—Mr. D. McGillivray, our highly respected florist, has apparently accepted in good faith the invitation extended to the Yankee young men by the hospitable Canadians last summer, to come up there and help themselves to a Canadian girl apiece, for he has just returned from Ottawa with a bride. On it being suggested that he had made good use of his time during his last summer's trip to Canada he says, "Oh no, that would be entirely too short an acquaintance for a Scotchman to get married on." But we know now why he lingered behind the rest of the party in coming home.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Our Telephone.

"Hello! Is that Mr. Thorley?"

"Yes; what can I do for you?"

"If you can spare time we would like to have you give us a few points on the present condition of the retail flower trade in New York."

"Certainly. What would you like to know?"

"Well, for instance, are you introducing any new or novel features in room decorations this season?"

"Yes; we are always seeking novel effects. The peculiar nature of our business demands that we go to extremes in this direction. Just now we are running strong on yellow and white for room decorations. Groups and grottoes we have abandoned. Instead of spreading our work all over the room, in the corners and on the arches, we take one side only and concentrate all our efforts there, massing the flowers on the wall in one great garland. For example: When we have a large drawing room, say one measuring 25x18, you will see that we can produce in this manner a very bold and striking effect. You understand that I refer now to an afternoon tea or reception, not a wedding or dinner.

"We are using great quantities of English ivy vines. They make very beautiful and effective traceries on light colored walls. The smaller leaved varieties are the most desirable. Smilax we are not using at all.

"It is important that first impressions should be favorable; hence we give particular attention to the decoration of the foyer or hall. When the hall is sufficiently high studded we sometimes drape the ceiling with asparagus, forming a delicate network through which the electric lights shine with beautiful effect. At intervals we attach to the asparagus orchids or other graceful blooms. The balusters we decorate with masses of showy flowers. When the woodwork is dark we use yellow or white; when the finish is light, pink flowers look well."

"Is there anything new in wedding decorations?"

"Well, we have drifted away entirely from the old canopy and wedding bell. When there is a bay window in the room where the ceremony is to take place we concentrate all our decorations in that spot. We can make a beautiful little scene by the use of wire screens at the sides, back, and overhead. These wire forms are covered entirely with choice green and flowers, and form a sort of little chapel where the bridal party and minister are to stand, two or three little posts on either side being so placed that the guests can be partially roped off from the recess."

"How about bridal bouquets?"

"We are making an effort to induce people to break away from the exclusive use of dead white, and to see some beauty in other colors judiciously used. On a recent occasion we made the bunch for the bride to carry of American Beauty roses and lily of the valley. There was considerable comment upon it, but it was apparently a success. The bridal bunch we are making now, and which I call the English spray bouquet, is a long stemmed, loosely tied, graceful bunch, not at all resembling the formal regulation bridal bouquet. We tie it with very narrow white crepe ribbon, using sometimes as much as forty yards of the ribbon for one bunch. This ribbon is caught up in long loops and knots and hangs down among the folds of the dress, forming, in fact, a part of the costume. As a general thing ribbon is not used nearly as much in floral work of any kind as it has been in recent years. For bridesmaids we still make the old conventional bouquet. Very large boutonnieres are popular with the gentlemen, as many as six or seven small Niphetos being frequently used in one cluster. Speaking of roses, the American Beauty is more popular than ever. It has so many good qualities that the tendency is to lessen the demand for early forced hybrids and to discourage the growing of many of these. And this is right. No Magna Charta or other early hybrid can begin to compare with American Beauty when well grown. It is a peerless rose and deserves all the popularity it has attained."

"What is, in your opinion, the outlook for the chrysanthemum?"

"I sold yesterday I believe as many fine chrysanthemums as would have come into all New York in a whole season a few years ago. The quantity we manage to get rid of is almost incredible and we are but one place. Still I fear the chrysanthemum is on the downward track. You ask why? I answer because it is becoming too common and too cheap to hold long the high position it has occupied for the past few years. I have watched the chrysanthemum closely from its first introduction as a fashionable flower down to the present time. Every year it has improved vastly in quality; every year for the past three years it has become cheaper. As to quality, the flowers that I willingly paid $6 per dozen for last year my customers would not look at this year. And of blooms infinitely better we can get all we want for $3 per dozen this year. Do you see the tendency? High class buyers will soon turn the cold shoulder on the chrysanthemum. As soon as the maid can afford to wear a chrysanthemum of best quality for a corsage, from that moment the mistress will have nothing to do with it. It is a fact that the scarcity of any flower goes farther to make it popular with society people than any inherent quality of beauty or sweetness in the bloom itself. Violets are again in great demand, and why? Because good ones are scarce and if a man wants a bunch he must pay $2 for it. Put them down to 60 cents a bunch and see what will happen. The dude will strut down Broadway with a bunch of them in his lapel, but the club man won't. People want what is scarce and the only salvation for a man doing a business such as mine is to always have something to offer which cannot be got on every corner, and there is the secret of the constant changes in fashion, the ceaseless hunt for novelties, the spasmodic booming of new things. Now do you see where the proud chrysanthemum is bound to bring up? Overproduction will be the ruin of it.

"You may say that the cheapness of the flower brings it within the reach of the masses and that with cheapness will come a corresponding increase in number of buyers. But it is not the poor people, no more than it is the 400, who support this business. The great middle class furnishes the flower buyers. I can make no money on any thing that is cheap and plenty and as soon as we find a flower taking the downward course we desert it; we are compelled to.

"Then there are the growers. Vast quantities of chrysanthemums have been sold on the New York market this season for $10 per hundred that never cost the growers a cent less than $25 a hundred to produce. Surely we can stand it as long as the growers can.

"Now don't mistake my meaning. I have always been a close observer. To the fact that this is so and that I constantly look ahead in my business I attribute much of my success, and the buyers will come to Thorley just as long as Thorley continues to conduct his business as hitherto. It has been said that from Tiffany there have sprung one thousand jewelers, but when people want jewelry they still go to Tiffany's. We have business enough to attend to and we will continue to have it. But I take enough interest in the welfare of the business at large to give expression to this one word of warning.

"With the present methods and tendencies in the flower trade, how long will it be before our growers will begin to see that it will be more profitable to tear down one-half of their glass or devote it to other purposes? And between you and me they can't begin it too soon either, for there is entirely too much stuff being grown.

"Call me up again sometime and I will tell you something about dinner parties."

REMOVAL.

BURNS & RAYNOR,

Wholesale Florists,

HAVE REMOVED TO

49 West 28th Street, NEW YORK,

where they will have larger store space and better facilities for their rapidly increasing business. Their method of **Shipping Roses** has given them a large out of town trade and for good flowers, especially **Beauties** and **large Mums** the above address is **Recognized Headquarters.**

CUT SMILAX

Over ¼ acre solid beds. First-class quality. 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled

JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price list write for same.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.

E. J. HARMS,
Wholesale Dealer in
CUT FLOWERS,
And Florists' Supplies.
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.
PHILADELPHIA.

C. STRAUSS & CO.
GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders
WASHINGTON, D. C.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

CUT FLOWERS.
The Western Trade Solicited.
Write or Telegraph.
SMITH FLORAL CO.
77 7th Street S. Minneapolis, Minn.

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S PENNOCK)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

CHRYSANTHEMUM BLOOMS.
Fine Flowers at Low Prices.
Shipped on Short Notice.
Address **J. G. BURROW,**
Fishkill, N. Y.

Wholesale Markets.

Cut Flowers.

BOSTON, Nov. 23.

Roses, Bon Silene	1.00
" Gontiers	2.00
" Niphetos	3 00
" Perles, Sunsets	3 00@ 4.00
" Mermets	3.00@ 4 00
" Bride	4 00@ 5.00
" Waban	4 00
Marguerites	1.00
Mignonette	2.00
Valley	6 00
Carnations, short	.75
" long	1.00@ 1.50
Tuberoses	.75
Violets	1.00
Pansies	.75
Adiantums	1.00
" Farleyense	10 00@20 00
Smilax	12.50
Asparagus	50.00
Chrysanthemums, specimen flowers	15 00@20 00
" common, per bunch	.35@ .50

NEW YORK, Nov. 23.

Roses, Gontiers, Niphetos	3 00
" Cusin, Watteviles	2 00@ 4 00
" Perle, Sunset	3 00@ 4.00
" Mermet, Bride	3 00@ 4.00
" Woottons, Waban	2 00@ 4 00
" La France Albany	5.00@10.00
" Beauties, best	60 00
" inferior	5.00@20.00
Carnations	1.00@ 1 25
Violets	1 50@ 2.00
Lily of the Valley	4.00@ 6 00
Mignonette	2 00@ 3 00
Harrisli Lilies	15 00@17.00
Cypripedlums	12 00@15 00
Roman hyacinths	5.00@ 6.00

PHILADELPHIA, Nov. 23.

Roses, Beauties	12 00@20.00
" La France, Albany	4.00@ 5 00
" Mermets, Brides, Bennetts	4.00@ 5.00
" Pierre Guillots, Dukes	4.00@ 5.00
" Cusins, Watteville. Hoste	4 00@ 5.00
" Perles, Niphetos	2.00@ 3.00
" Gontiers	1.50@ 2.00
Valley	8 00
Carnations, long	1.25
" short	1 00
Chrysanthemums, specimen flowers	8 00@25 00
" ordinary	1.00@ 2.00
Smilax	15.00@20 00
Adiantums	1 00
Violets, single, bunches	3.50@ 5.00

CHICAGO, Nov. 24.
(Thanksgiving Prices)

Roses, Am. Beauties	20 00@25 00
" Perle, Niphetos	5 00@ 6 00
" Gontiers	3.00@ 4 00
" Mermets, La France	5 00@ 7 00
" Brides, Albany	6.00@ 8.00
" Bennetts, Woottons	5 00@ 7.00
" Bon Silenes	2 50@ 3.00
Carnations, long	1.50@ 2 00
Carnations, short	1.00@ 1 25
Smilax	15 00@18.00
Chrysanthemums	1 00@ 5 00
Adiantums	1 00@ 1.25
Callas	15 00@20.00
Violets	1.00@ 2 00
Roman hyacinths	6.00
Valley	8 00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order.

GEO. MULLEN,
WHOLESALE FLORIST,
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

EDWARD C. HORAN,
Wholesale Florist
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN. American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
—— ALSO ——
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

THOS. YOUNG, Jr.
Wholesale Florist
20 West 24th Street, NEW YORK.
CHRYSANTHEMUMS.
Specimen Blooms of the finest Prize varieties, carefully packed.
LILY OF THE VALLEY, and the Choicest ROSES for the fall and winter season.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST
32 West 30th Street,
NEW YORK.
ROSES SHIPPED TO ALL POINTS.
Price List on Application.

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WHOLESALE DEALER IN
CUT FLOWERS
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ELLISON & KUEHN,
WHOLESALE
FLORISTS,
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A complete line of Wire Designs.
Mention American Florist.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

LARGE DEALERS say that the seed growers are not coming forward with their usual promptness, being apparently in no hurry to dispose of their stock. Knowledge of short crops in Europe or confidence in the predictions of unusual prosperity and increased activity in trade here may have something to do with this.

OWING TO the unusual amount of wet weather in England and throughout Europe the sweet pea crop is almost a total failure. Prices will undoubtedly be much higher next season on account of the scarcity.

MR. WILLIAM MEGGAT, who has been confined to his house with a severe cold since he returned from California, is now able to be about again.

THE concern Jas. Vick's Sons was incorporated November 9th by Frank H., Charles H. and Lucy P. Vick. Capital stock $25,000.

IT IS believed that Chas. J. Deneke, the Salina Floral Co. and John C. Nolan, formerly located at Henderson, Kentucky; Salina, Kansas; Denver, Colorado; Ogden, Utah; and other points, are really only one concern.

SEE NEXT issue for exhibition reports not given this week or last.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a single young man as all-round greenhouse hand; steady and sober, not afraid to work. G. SPENCER, Box 261, Knoxville, Tenn.

SITUATION WANTED—By a young florist who has had considerable experience; good references; please state wages. SHARPLESS WALTER, West Grove, Pa.

SITUATION WANTED—By a first-class gardener; 8 years' experience in propagating and general greenhouse work; single; age 24. Address L. DEMEYER, Porte D. Anvers, Gand, Belgique.

SITUATION WANTED—By a young man, German, in vicinity of Chicago. Have had 11 years' experience, and can give first-class references. Address Z F, care American Florist, Chicago.

SITUATION WANTED—By an Englishman, aged 29, with practical knowledge of roses, grapes, ferns, cut flowers, etc., with best of references. Address A. B, care American Florist, Chicago.

SITUATION WANTED—By a practical florist and gardener, fully competent to take charge of a first-class commercial or private place; 13 years' experience; German; married. Address O R P, 1136 63d St., Englewood, Ill.

SITUATION WANTED—As manager or foreman in a large commercial place, where order and neatness with system are appreciated. First-class rose and plant grower. Western States preferred. First-class references. Good wages expected D P N, care American Florist, Chicago.

SITUATION WANTED—By gardener and florist; young, single man, as assistant in large establishment of greenhouses—private or commercial where he can improve himself in the culture of plants, roses, etc. Has a fair knowledge of business. Good references. Address FLORIST, Piermont P. O., N. Y.

SITUATION WANTED—By thoroughly competent horticulturist. Has been headgardener in two of the largest private places in the country for 15 years, and has had 6 years' experience as foreman in two of the largest commercial establishments on Long Island. Late foreman for V. H. Hallock & Son. Address FLORIST, P. O. Box 4, Queens, N. Y.

WANTED—A good foreman. Must come well recommended. State wages expected. BERTERMANN BROS., Indianapolis Ind.

WANTED—Decorator. A young man of good address, able to sketch decorations—both bunting and plants—and to carry out the same. Address Lock Box 988, Philadelphia, Pa.

WANTED—A good rose grower (Married man preferred). Good salary. Must come well recommended. Address E HENRY, care Michel Plant and Seed Co., St. Louis, Mo.

WANTED—Young man (German preferred) 17 to 20 years, who has had a little experience in greenhouses, to run steam boiler, &c. Steady work. State wages and address GREENHOUSES, care Carrier No. 1, Battle Creek, Mich.

WANTED—A young man to take a one-third interest in a well established greenhouse trade, in a city of over 25,000 inhabitants, a short distance from New York City; over 1,200 feet of glass; well stocked. References required. Address H B, care American Florist, Chicago.

FOR SALE—Two No. 17 Hitchings boilers in good order. Address W. C NOLAN, Cincinnati, O.

FOR SALE—A bargain. $1000 buys well established florist business in Chicago $500 cash, balance to suit. Address C P, care American Florist, Chicago.

FOR SALE—A good property within 50 miles of Chicago; four acres, 10,000 feet of glass; complete All the trade you want. Satisfactory reasons for selling. CORNELL, care Am. Florist.

TO GARDENERS AND FLORISTS.

J. C. GOODING, the well-known rose grower, wishes to retire, and will dispose of his greenhouses, all well arranged, heated by steam, about 16,000 feet of glass, dwelling and barn; lot 160x350; good location, within city limits. Cash, half down. Address **1216 Euclid Ave., Cleveland, O.**

FOR SALE.

A long-established private collection of orchids in good flowering condition. Private party will find good opportunity of purchasing, as these flowers will be in excellent bloom of Cattleya Trianæ and Percivaliana by the holidays. Also a splendid collection of cypripediums. Address JOHN H. FLANAGAN, Artist, Room 25, Morning Journal Office, New York.

SEED BUSINESS FOR SALE.

A rare opportunity afforded to a young, active florist and seedsman, to purchase an established Seed Business, within a square of the New Reading R. R. terminal; also a short distance from the Penna. R. R. Broad St. Station. It is one of the best locations on Market St. for a local and transient trade. For information, address **P. O. BOX 1570, Philadelphia, Pa.**

PANCRATIUM CARIBBAEUM.

(The Great Spider Lily.)



This was one of the best selling novelties last season, and not only sold, but gave **SATISFACTION** to the purchasers. Thousands of bulbs have bloomed freely in all parts of the country. Every **LIVE FLORIST** will catalogue it this season, and to meet the popular demand we have secured 250,000 bulbs of blooming size.

We offer these at $3.00 per 100; $22.50 per 1000, packed and delivered f. o. b.

We also have a few bulbs of the **CRINUM NOBILE** that great average over 2 lbs. weight, at $35 per 100, and some fine **CRINUM AMERICANUM** at $7 per 100. These bulbs are all first quality and size. Order now, and be in time to insure your supply.

THE AMERICAN EXOTIC NURSERIES,
R. D. HOYT, Manager, SEVEN OAKS, FLORIDA.

THE BERLIN LILY OF THE VALLEY PIPS

we sell are of exceptionally rooty growth, thoroughly matured and capable of early forcing, they will arrive during November. We have in transit 100,000 above orders in hand, and we would like to place them in lots of 1,000 each, at $10.00 per 1,000, with one hundred growers who have not heretofore used **OURS,** that they may compare their quality, and know with whom to contract next year, for their full supply.

Z. DE FOREST ELY & CO.,

Wholesale Importers of Bulbs and Seed Growers,
1301 & 1303 Market St., PHILADELPHIA, PA.



If you wish to illustrate your Printing with Cuts, send 50 cents for my Catalogue of **FLORAL ELECTROS—2,230** Engravings.
A. BLANC, PHILADELPHIA.
Catalogue of Cactus plants free.

Dyed Immortelles.

Wholesale Florists and Dealers in Immortelles will find great advantages in purchasing this stock from us.

Our dyeing is done by the latest method. Samples and price list free on application.

ALPHONSE ROCHE,
OLLIOULES, (var.) FRANCE.

PANSIES. PANSIES.

200,000 plants of the Jennings strain now ready, 60 cts. per 100 by mail; $5.00 per 1000 by express; 5,000 and over $4.00 per 1000. I warrant this strain of Pansies A No. 1 in every respect. Large flowering, fine colors and fine stocky plants. Seed 50 cts. and $1.00 per packet.

All sizes in Pansies, flowering plants same price, but must be sent by express. Yellow can be had separate from mixed.

ADDRESS **E. B. JENNINGS, Pansy Grower,**
Box 76. **SOUTHPORT, CONN.**

JUST ARRIVED!

LILY of the VALLEY

Prime 3 year old Hamburg Pips, $10.00 per 1000; $1.25 per 100; in case lots of 3000 $9 00 per 1000; in lots of 10,000 and upwards, $8 50 per 1000, to close out.

10,000 Paper White Narc. Grandi.

The true large flowering variety, extra size bulbs, $8.00 per 1000; $1.00 per 100.

Immortelles.

Fine French purple, cherry red (open or berry) or assorted colors, $26.00 per 100 bunches; 30 cts. each.

Cape Flowers.

Large and white, short stemmed, 50 cts per lb.; in case lots, 45 cts. per lb.; choice white, long stemmed, $7 00 per 10,000; 75 cts. per 1000; assorted colors, long stemmed, $1.00 per lb.

Pampas Plumes.

24 inches and up, natural.....$ 6 per 100; $ 1 per doz.
24 inches and up, asst. colors... 10 " 1.50 "
Other Ornamental Grasses in various colors, 50c. lb.

A full line of **Porcelain and Metal Wreaths, Crosses, Etc.**, at lowest prices. Satisfaction guaranteed if selection is left to me for any stated amount For other supplies for the HOLIDAYS, see Catalogue. Terms Cash.

Address **J. A. DE VEER,**
154 East 34th St., New York.

AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies Etc., Etc. For prices examine Wholesale Catalogue.

Address with business card

136 & 138 West 24th Street,
STATION E. NEW YORK.

VALLEY PIPS, - - $10 per 1000
TUBEROSES, new crop, 10 "
DIELYTRA spectabilis, 5 per 100
PAEONIES, colors separate, 12 "

W. W. BARNARD & CO,
6 and 8 North Clark Street, CHICAGO.

KAE SHEAN CO.,

Growers of CHINESE SACRED LILY,

HONG KONG.

Goods can be obtained at the following houses:
John L. Childs Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R. Pierson..... Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN. CONN.

DANISH CAULIFLOWER SEED

Gives in fact the very best results.

Extra Early DWARF ERFURT, and Earliest DWARF SNOWBALL,

the most profitable two sorts for forcing, true to name and first quality, own home grown seed.
For prices, samples and further information, apply to

CARL FRISENETTE, Seed Grower,
4 Svanholmsvej, COPENHAGEN, V.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

GARDINER'S BULBS.

Many rare and beautiful varieties suitable for winter flowers may be secured now at a greatly reduced rate, as we must make room for spring stocks. Everything we offer is guaranteed sound, and of first-class quality.

CLEARING SALE.

Commencing Monday, November 30th, 1891, and continuing until every item is cleared. Let us hear from you at once, as a QUICK MOVEMENT is certain at the prices named.



Get Good Bulbs, i. e. Gardiner's Bulbs, and you are pretty sure to have "good luck."

	Per 100	Per 1000
Anemones, single mixed	$ 80	$ 7.50
" single white, blue & scarlet	1 00	9.00
" single, 5 named varieties	2.00	18 00
" single, new French named varieties	10 00	
Amaryllis rosea (zephyr flower)	2 50	22 50
Chionodoxa (Glory of the Snow)	1.25	12 00
Eranthes (winter aconites)	1 20	10.00
Erythronium (dog's-tooth violets)	1.50	14 00
Galanthus Elwesi (Elwes' Giant Snowdrop)	1.25	11 00
Cooperia Drummondi	4.00	
Double snowdrops	.85	7 50
Rose Roman Hyacinths	2 00	18 00
Dutch Romans, white, pink and blue	2.00	18.00
Named Dutch hyacinths, single and double, 87 varieties, including many which sell from 25c to 50c per bulb. This line **cost us double** what we now ask.	6.00	55.00
Persian iris	2.75	25.00
English iris	1 75	
Leucoium (Spring Snowflake)	2 50	23 00
Daffodil Trumpet Princeps	1 85	17.00
Daffodil Trumpet Major	1 85	17.00
Daffodil Tenby Trumpet	1 85	17 00
Daffodil Ard Righ	6.00	
Named daffodils, 16 choice new and rare sorts (including Sir Watkin, Horsfieldi, etc.,) a snap. These **cost us** 3 times the price we ask.	6.00	55.00
Narcissus Poeticus Ornatus	1.00	8.00
Narcissus Poeticus	.75	5.00
Ornithogalum Arabicum	2 00	
Ranunculus, French, Persian & Turkish	.85	7.50
Tulips, single early, 8 named vars, pure white	2.00	
Tulips, single early, 5 named vars, pure yellow	2.00	
Tulips, single early, 15 named vars, pure scarlet, rose, etc	1 50	
Tulips, single early, 11 named vars., striped, etc	1 50	
Tulips, single early, fine mixed	**1 00**	**7.00**
Tulips, single, late	1.00	
Tulips, Parrot, 5 named varieties	1 50	
Tulips, double, 12 named varieties	1.50	
Tulips, double, fine mixed	**1.00**	**7.50**

Just Arrived on the S. S. "Athalie."

We beg to announce the arrival, in splendid condition, of the first consignment of **GARDINER'S XX BERLIN VALLEY** which is considered by critical growers to be *the very best on the market.* After filling our contract orders we will have a few cases left (containing 2,500 pips each) which we offer as long as they last at $22.50 per case. Less than case lots, $10 per 1000. **SPIRÆA,** $5 per 100; these are large clumps and *well budded* (worth three of the cheap clumps usually sold). Stock limited.

Although we don't have any "chip on our shoulders", we are not afraid to stand "OUR" VALLEY and SPIRÆA up against any other—bar none. So send *us* your *sample* orders if you are experimenting. Address all orders and correspondence to **21 North 13th Street, PHILADELPHIA, PA.**

JOHN GARDINER & CO.

CHRISTMAS ROSES.

THE LARGE WHITE FLOWERING VARIETY.

Orders are now booked for fall delivery. Having the largest home-grown stock in the world, and in splendid condition, I can do them well. Last year the large size produced over seventy flowers. For several years they have given the greatest satisfaction to my customers.

Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
2nd size	14.00	"	115.00	"
3rd size	10.00	"	72.00	"
4th size	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000)	2.50	"	23.00	"

Unknown correspondents are requested to add cash or good European references with the orders Orders can be executed at once. Special prices for bulbs and plants on application.

HERMAN BUDDENBORG, BULB GROWER,
Hillegom, = = Holland.

LILY OF THE VALLEY PIPS.

100,000 Berlin, extra selected quality, offered for sale, to arrive in quantities per case to suit, at $9.00 per 1000.

Special prices to the trade, as to quantity.

C. C. ABEL & CO., New York.

Mention American Florist.

The Cultivation of Mushrooms.

The following standard works will be sent post free on receipt of price:

MUSHROOM CULTURE Robinson. $.50
MUSHROOMS—How to Grow Them. Falconer. 1.35
MUSHROOMS FOR THE MILLION, 16 pages. Free.

JOHN GARDINER & CO.,
Seed and Bulb Growers, Importers and Dealers,
Philadelphia, Pa., U. S. A.

Mention American Florist.

A Local Carnation Society.

A preliminary meeting was held in Kennett Square, Pa., on the 19th inst. to organize a local association of florists. Joshua L. Ladley, of Kennett Square, was called to the chair. Edward Swayne stated the objects of the meeting, when it was decided to organize a society to be called the "Chester County Carnation Society." A committee was appointed to draft constitution and by-laws and the meeting adjourned to meet in Kennett Square on Saturday, 28th inst. A great deal of interest was manifested at this meeting and the "Carnation Belt" will certainly be heard from in the future.

Society of American Florists.

The report of the Toronto convention will be ready by December 1. It is the most voluminous report for several years and on account of unusual amount of editing required, especially in the reports on nomenclature and new plants, is somewhat late in being completed.

WM. J. STEWART, Sec'y.

A FEATURE of the Philadelphia show was the excellent programme with full description of the exhibits, chrysanthemum history, poetry, varieties and advs. The book was thoroughly distributed by young lads in Japanese costume. It was of interest and value to visitors and of benefit to the trade.

For Sale Cheap.

	Per Doz.
HIBISCUS SINENSIS, very strong, 4-in. pots,	$2.00
CROTON Aureum and Interruptum, 4-in. pots, 12 to 18 inches high	2.50
BOUVARDIA Alfred Neuner, double white, 5 in. pots, in bloom	1.50
PASSIFLORA PRINCEPS, Red Passion Vine, 4-inch pots, very fine stuff	5cc. each.
ADIANTUM CUNEATUM, fine stuff from 5 inch pots, in perfect health	$20 per 100, 2.50
GARDENIA FLORIDA, Cape Jasmine, 4-inch pots, strong and bushy	$15 per 100, 2 00
HYDRANGEA Thos Hogg, 4 inch pots, strong,	2 00
CHRYSANTHEMUMS, fine stock plants of leading sorts, 5 and 6 inch pots	2 00
PRIMULA OBCONICA, 4-inch pots	1.25
PRIMULA OBCONICA	2.00
PASSIFLORA ELATA, 4 inch pots	2.00
PASSIFLORA ELATA, 5-inch pots	3 00
AZALEAS, with buds	3.00

Write for wholesale price list.

MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

ORCHIDS.

THE FINEST STOCK IN THE WORLD.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 25 Greenwich Street, New York City.

Orchids.

BRACKENRIDGE & CO.

CANE STAKES.

Established 1864. Govanstown, Md.

ORCHID FIBRE.

I beg to call the attention of orchid growers to a choice lot of orchid fibre, which without doubt is the best and cleanest quality in the market. Send for sample. Address

RALPH GRIFFITH,
1148 De Kalb Ave., BROOKLYN, N. Y.

WABAN ROSE.

Headquarters for the New and Beautiful TEA ROSE WABAN.

Strong plants for immediate planting, price $20 00 per hundred.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Bon Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000
TEA ROSES, 30 sorts, from open ground, extra strong, $4.00 per 100.
HERMOSA, strong plants, $6 00 per 100.
HYBRID PERPETUAL, sorts including JACKS, years old, extra strong, $10.00 per 100.

SMILAX. Good strong plants, $2.50 per 100; $20 00 per 1,000.

WOOD BROTHERS,
FISHKILL, N. Y

JACK ROSES

12,000 one year old, 2½ to 3 feet high, well branched, $15.00 per 100.

5,000 two year old, 3 to 4 feet high, well branched, $20.00 per 100.

Also 2,000 fine assorted H. P. Roses, one year old, $15.00 per 100.

JORDAN FLORAL CO.,
706 Olive Street, ST. LOUIS, MO.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.
The best and newest of CHRYSANTHEMUMS, CARNATIONS and general greenhouse stock.
Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

MME. GABRIEL LUIZET AND MAGNA CHARTA.

Splendid field-grown plants, extra strong, of these beautiful varieties, $12.00 per 100.

W. S. LITTLE, Rochester, N. Y.

ROOTED CUTTINGS PETUNIA.

Double Fringed.

5 best sorts, by mail $1.00 per hundred; by express, $8.00 per 1000.

VERBENA Mammoth.

15 sorts, by mail, 65c. per 100; by express, $5.00 per 1000.

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77. UPPER SANDUSKY, OHIO.
Mention American Florist.

PANSIES ONLY.

The Greatest Collection ever offered, including all the Latest Novelties. Our Seed is Warranted to be Fresh, Pure and Strictly First-class. Send for new circular and price list to the trade.

ALBERT BENZ, Douglaston, N. Y.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

ROSES.

Wide awake florists will purchase their Roses now, while in a dormant condition. Our plants shifted now in larger sizes of pots, will give you a return of 100 %.

We have now ready 50 000 in 2-inch pots, $3 per 100; $30 per 1000, our selection.
25,000 in 3-inch pots, $5 per 100; $50 per 1000.
Also a fine lot of HYBRIDS, $5 per 100; $50 per 1000.
Larger sizes from $10 to $20 per 1000.

Send lists to be priced. New Catalogue ready January 1.

Address NANZ & NEUNER,
LOUISVILLE, KY.

CYCAS REVOLUTA STEMS



by weight, roots and fronds cut off. For these we book orders at EXTRA FAVORABLE RATES up to

NOVEMBER 20TH,

in small or large quantity.

THE TRUE LONG-LEAVED VARIETY,

in sizes from 3—4 inch to 4—6 feet. We imported past season over 30,0 0 lbs., and can refer to some of the best known firms in the U. S. as to satisfactory results.
Remember a Cycas is a safe investment.

ALSO ORDERS TAKEN FOR
RHAPIS FLABELLIFORMIS.

Can send you all safely by freight. Full information as to prices, time of delivery, freight rates, etc given on application. SEND FOR CATALOGUE.

Send orders to

H. H. BERGER & CO.
SAN FRANCISCO, CAL.

Cycas Revoluta.

EXTRA FINE STEMS, ROOTS AND FRONDS CUT OFF.

VERY BEST LONG LEAVED VARIETY,

from 6 inches to 6 feet, per lb. 10c.
Discount on large orders.

CYCAS CIRCINALIS by January, '92. Price on application. MYRICA RUBRA SEED.

Rhapis flabelliformis, 25c. to 45c. per shoot.

FELIX GONZALEZ & CO.,
303 to 312 Wayne Street, SAN FRANCISCO, CAL.

Clematis. Roses.

H. P. and Monthly, both pot and outdoor grown, good assortment, own roots, fine plants.

CLEMATIS, fine, well grown plants in choice assortment. Plenty of Jackmanii.

Prices very low, on application.

F. A. BALLER, BLOOMINGTON, ILL.

Tuberous Begonias.

Splendid strain, extra fine habit, perfect flowers, unrivaled for variety and brilliancy of colors.

TUBERS, per 100, 1000, or 10,000, offered by

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That Boston takes the lead in matters of taste and Philadelphia proposes to join in the movement against short stemmed exhibits at chrysanthemum shows.

That Araucaria excelsa, Napoleon Baumann, is one of the grandest varieties ever seen.

That Louis C. Madeira which was raised by Henry Surman and is to be sent out by Messrs. Hill & Co. and Robt. Craig next spring is one of the finest incurved chrysanthemums in existence.

That crotons are bound to come into prominence for outdoor bedding in the near future.

That the worst compliment you can pay a friend is to name an inferior variety after him, especially when good kinds are so constantly coming to the surface.

That W. K. Harris' place is a veritable ficus factory, and that his new establishment will be a model place.

That chrysanthemum Marguerite shown by Graham this fall is identical with variety Ruth.

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Extra selected, for Church purposes, 20 to 25 feet	85	750

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One day while Bill was busy training his jack daw Lady M. accosted him thus: "W-w-william c-c-can your bird t-t-talk yet?" Bill took a quick glance at her face to make sure he was safe and then replied: "If he could not talk better than your Ladyship I would wring his neck."

Her Ladyship told the "bar" at the dinner table that night.

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The two largest sizes are of Balsam Fir; fine selected specimens.

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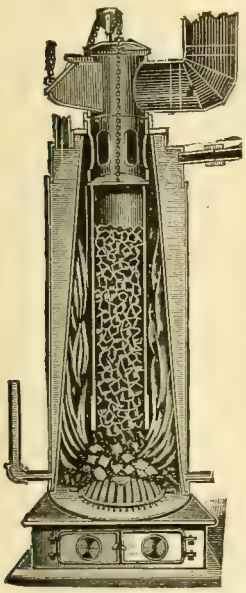
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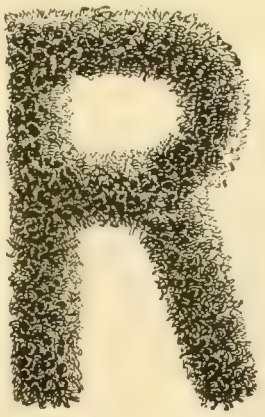


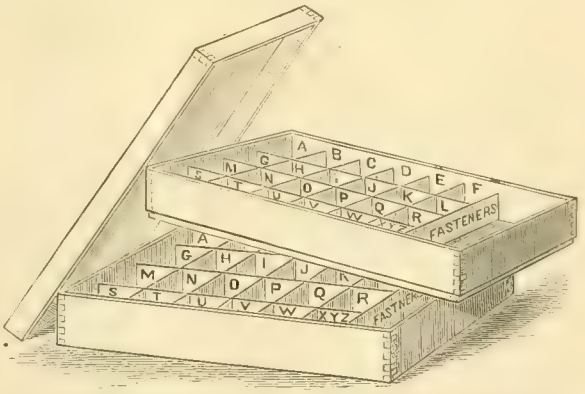
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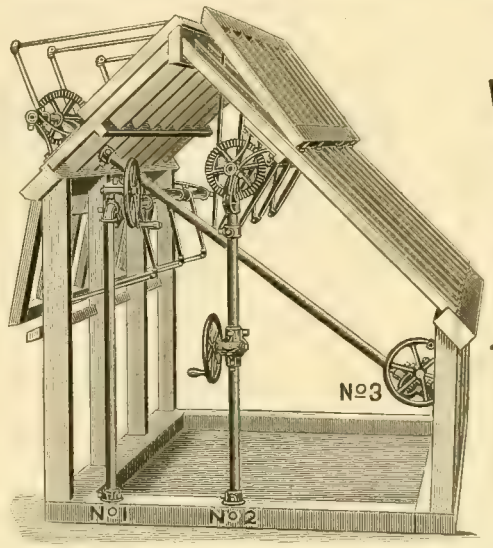


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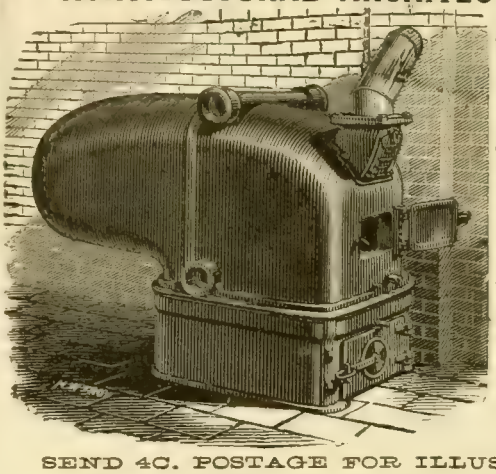
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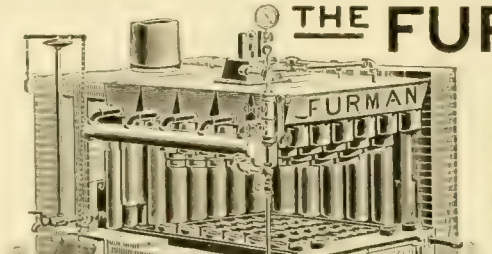
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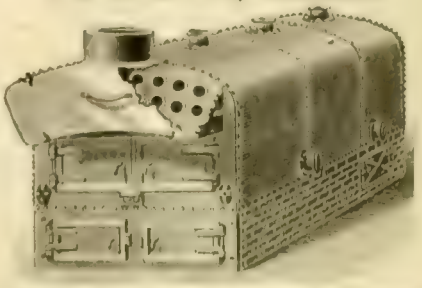
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Vol. VII. **CHICAGO AND NEW YORK, DECEMBER 3, 1891.** **No. 183**

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EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., president; C. J. Pennock, Kennett Square, Pa., secretary. First annual meeting and exhibition at Buffalo, N. Y., February 16, 1892.

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Chrysanthemum Shows.

Philadelphia.

[CONTINUED.]

Among the novel features at this exhibition were three standards exhibited among W. K. Harris' lot, to which Mark Mills pointed with pride. The three plants collectively made W. K. H. The plants were tilted to one side so that the design could be readily seen. The variety used, I think, was W. H. Lincoln, but am not quite sure about that. However, it was a good yellow and answered the purpose well.

A grafted plant from the same exhibitor attracted much attention, and this is a desirable feature to encourage at all chrysanthemum shows, for in order to deserve success we must have something that is STRANGE, BEAUTIFUL, or WONDERFUL. So says Mr. Edgar Nye, and he is correct. He also says that at an exhibition we must give the people something *instructive* and *unusual*. A grafted chrysanthemum plant combines many of those features which attract the general public, especially if the varieties used in the grafting are selected, that bloom at the same time, and the color combinations are according to rules laid down by our artists.

Mr. A. Blanc's cacti drew forth many exclamations of admiration. Crowds could be seen in the vicinity of this exhibit at all times. Mr. Blanc's collection embraces nearly all known species and varieties. It is said—and I hardly think that any person will dare to dispute—that this aggregation of "queer and crooked" succulents is the most complete and valuable in cultivation. The idea has been revived of holding an exhibition devoted almost exclusively to cacti. Such an undertaking ought to be a success, financially and otherwise. There would be great labor in connection with it, but when once ready for the public's inspection it would be as good at the end of six months, or even a year, as it was the day it opened, with a little touching up here and there, as occasion required.

To return to cut flowers for exhibition purposes. The general dilapidated appearance which is presented—commencing on the second day after the show opens—is a matter of regret to all concerned, both management and public. Boston—again in the lead—has in operation a plan which all horticultural organizations would do well to follow, and that is: The committee on awards examine every day during the exhibition all cut flowers in competition, and each exhibit is given a number of points, according to its merits. At the end of the show, the exhibit having the highest number of points gains the prize. This appears to me to be the only practical solution of the problem of preventing cut flowers from becoming an eyesore after the second day. This, as I understand the matter, applies to designs, as well as all classes of cut blooms. I believe it could be advantageously applied to plants also. It would, I know, involve lots of work for the judges, and this is the greatest difficulty in the way of carrying out the much-needed reform.

Not having an official list of the premiums as awarded, I am unable to give it here. Heretofore I have been favored with one, but on this occasion for some unaccountable reason it was omitted. Some of our daily papers are accurate in these reports, but I dare not send the list as published by them without first verifying it by the official report.

Among the seedlings not before noted, Wm. K. Harris had a few good ones; so also had Charles W. Trotter (Thos. Monahan, gardener); Robert Carey, gardener to T. C. Price, also had a good lot.

Now is the time to call the committees together for the purpose of revising the schedule, while the amendments deemed necessary are still fresh in our minds. No matter how carefully schedules are revised and compiled, some inaccuracies will occur. Many may be printers' errors, others may be oversights, and again, some may not develop their incompleteness until judges are ready for their duties, schedule in hand.

I have in mind one class which caused some unpleasantness, on account, presumably, of an oversight. It read as follows: "36 blooms, 12 varieties." One exhibitor understood this to mean 36 blooms, 12 varieties, 3 of a kind, and he staged his exhibit accordingly. Another exhibitor did not understand it in that way. He exhibited 36 blooms, 12 varieties, but a preponderance of his blossoms were of the larger and better varieties, and the latter was awarded 1st premium. There seems to be no doubt in the minds of everybody whose attention has been drawn to the matter that when that class was established, "three of a kind" was intended to be a part of it. The judges, acting as they do generally, up to the letter of the law rather than the spirit, it behooves all committees having such matters in charge to be doubly careful about the *wording* of the different classes.

It is very trying to the patience of the officers when these little snags are struck, especially after explanations are made and the disappointed exhibitor remains discontented and keeps harping on the same old tune in season and out of season.

It is generally understood among exhibitors, judges and officers connected with horticultural exhibitions that plants or blooms in competition wrongly named or not named at all are disqualified, and it is generally conceded to be *just* to do so. It

has become, as it were, an unwritten law. A case was spoken of a day or two ago where the judges at a chrysanthemum show acted up to the letter of the law rather than the spirit. They had a class to judge something like this: "25 blooms, 25 varieties, *named*." There were four or five collections in competition. One, the best lot, had a few seedlings among them under number. The exhibitor himself did not accompany his flowers. Some of the other exhibitors also had seedlings in their collections, and after a little consultation among themselves decided to put names on their seedlings, thus complying with the requirements to the letter, and winning 1st and 2d prizes with inferior flowers, while a better article was ruled out on a trifling technicality. This might not have been noticed by the judges had not one of the exhibitors, who had named his seedlings after they had been staged, persistently protested against his absent competitor's superior exhibit being not exactly according to the schedule.

A plan in operation at the New York show could be well adopted by all similar organizations. It is in effect that the club or society under whose auspices the show is held have at foot of entry slip a disclaimer, releasing the society from all responsibilities if any of the exhibits are damaged, lost, or stolen. An addition to the rules and regulations of the Penn. Hort. Society will have to be made at the next meeting. This has become necessary in view of passing events, as self-protection. Of course, all exhibits from a distance, where the owner cannot possibly accompany his contributions, will be as jealously guarded as it is possible to do at shows of this kind. A written request should in all cases be sent with all entries to carefully guard those which may be new or rare. L.

Baltimore.

November 10 promised fair enough all day to delight the hearts of the members of the florists' club and make them anticipate a renewal of the grand weather of last year, but a drizzling rain set in at 5 p. m. which continued until next day and cut down the attendance to a small figure. The music was a new and very pleasant feature of the show and was the one thing lacking last year that we had this year in a very satisfactory form.

There was not a single feature of last year's exhibition that was not improved upon this year; the plants were larger, more perfectly formed and clothed with foliage to the pots; the cut flowers were so nearly perfect in form and color as to leave nothing to be desired and in the matter of size seemed to be on the very line between large enough and too large. The design work was incomparably superior to that of last year; the table decorations were *table* decorations, not decorations of 3-foot benches, but tables, flashing with silver and sparkling with cut glass, set by the best caterers of the city for twelve guests and decorated with costly flowers in a manner that showed a high degree of artistic skill and most careful execution. So with the mantel decorations; the mantels were works of art before a flower was placed on them and when finished it was impossible for an unprofessional eye to select the best. In fact competition was generally so very close that many of the prizes were awarded for reasons that were not plain to the average spectator, as for example the case of a very finely grown plant offered by Mr. Chas. M. Wagner, which was not successful because the pot in which it was grown measured 6½ inches instead of 6 inches, nevertheless there was no grumbling at the decisions, but general rejoicing that the exhibits were of so uniform excellence.

Fortunately most of the cut blooms were not for competition or it is safe to say the judges would have wished themselves back in Washington ere they finished the awards. This was a corner where the Baltimore florist loved to linger, for was not New York represented here? And did we not hold our own with that great city? Aha! Perhaps even a shade more than that.

On entering the door after the eye had grown accustomed to the field of brilliant colors the nearest plants attracted attention and they were well calculated to hold it, for finer plants could scarcely be desired than the winner of the first prize for 24 specimens in 24 varieties. They were Geo. Daniels, L. Boehmer, L. Canning, I. C. Price, Ada Spaulding, W. H. Lincoln, Rob't Bottomly, Mrs. Clinton, Jas. R. Pitcher, Lilian B. Bird, Domination, Mrs. Cannell, Pres. Harrison, M. Boyer, Ivory, J. C. Vaughan, Mrs. F. Thomson, Puritan, Emily Dale, Advance, Kioto, Violet Rose, E. G. Hill and Mrs. Bullock. All were grand plants and models of cultivation. Opposite them on the right was the lot that won first for 12 plants in 12 varieties, by the same growers, Messrs. Halliday Bros., and to say that they were equally as good as the other lot is giving them high praise. Here was to be seen a plant of Ivory, a perfect globe in shape, and requiring 150 stakes to display the great white flowers properly. Next stood the plant that won the Bayersdorfer prize, a splendid specimen Louis Boehmer, the largest plant in the room and as perfect in leaf and stem and flower as could be wished. The only thing that the most carping critic could have desired in that plant was a clear color and of course that can not be had with Boehmer.

In the center of the hall was a mass of finely grown palms sent by Mrs. M. J. Thomas, marked "not in competition," and to the right of it were the plants that won first for 6 seedlings of '91; they were grown by Halliday Bros. and consisted of Target, a very target indeed, the bull's eye being formed of the tubes of the petals, which as well as all the reverse were fawn color, while the spatulate half of the petals was a rich crimson, L. Boehmer, Sugar Loaf, J. C. Vaughan, Waban perhaps the best new plant exhibited, clear deep pink, reflex light rose, very large size, and Clara James.

Among the plants exhibited by Mr. Jno. Donn, who took several first prizes, were grand plants of Prince Kamontsky; Mrs. Jno. Donn, a Chinese yellow, with brown pencilings on the edges; M. Panckoucke, light red anemone; Mme. Baco, a delicate pink Japanese; Maud Lee, M. C. Roffort, M. Dufosse, I. C. Price, Lizzie Cartledge, Jules Toussaint, E. Lefort and Grace Hill. As pretty a sight as the hall afforded among the plants was the group that took first for 12 single stemmed plants with one bloom. They were grown by Mr. Wm. Fraser and consisted of W. W. Lunt, Mrs. W. Bowen (the finest flower in the hall), Mattie Bruce, Elmer D. Smith, Chas. Canfield, G. F. Moseman, Annie Dorner, Lillie Bates, V. H. Hallock, John Goode, Pride of Roses and Robt. Craig.

The seedlings shown for the first time were numerous, were fine, were well grown, but were all ruled out by the judges as not being sufficiently distinct from those already known. Mr. Seidewitz claims to have a very superior one at home, but as he did not exhibit it we can only guess at its beauty and points.

Space would not suffice to describe all the exhibits that deserve it, but it would not do to overlook the premiums offered to children. Four months ago the members of the club gave away to the school children of the city 2,000 plants to be grown for the show and offered thirty premiums; they were competed for in a way that excited the astonished admira- of the club and the plants that took prizes would have been considered good plants in the body of the exhibition a few years ago.

The table decoration that received the first prize was composed of Am. Beauty roses, Cypripedium insigne and L. Canning chrysanthemums and was so good that it was the center of an admiring circle of spectators every night. The competing exhibit was so excellent that to many it seemed equally good; it was composed of Daimio chrysanthemums and adiantum fronds.

The mantel that gained first was banked on one side with tall Areca lutescens reaching to the top, the pots concealed by a mass of brilliant leaves of Japanese maple and the grate filled with the same. On the shelves were two vases of superb chrysanthemums, one Harry May, the other H. E. Widener and Domination. A spray of Asparagus tenuissimus, draped carelessly, completed a very charming effect, for which the Messrs. Halliday deserve great credit. The competing exhibits while showing beautiful work above were too heavily banked with plants below.

Messrs. Brackenridge & Co. had the only exhibit of orchids.

Mr. Jno. Cook exhibited in his new roses a seedling of his own named Mrs. Rob't Garrett, apparently a hybrid tea, in the way of La France, but as well as could be judged from the flower shown somewhat different in tint and also in the form of the flower, being more inclined to open like a hybrid perpetual.

Among the designs of superior merit may be mentioned a wreath of Bottomly chrysanthemums and lily of the valley with a pair of palm leaves lying through it, tied with broad lavender ribbon, exhibited by Halliday Bros; also a vase exhibited by Mr. Jno. Cook, standing on a high pedestal of ivy leaves and filled with drooping sprays of choice chrysanthemums. There were many, many more and all possessed some degree of excellence, but space and time fail.

The most gratifying thing about it all is the fact that it was a financial success. With the exception of the first night the weather was all that could be desired and the attendance was the same, so that notwithstanding the heavy expenses, the music, the large hall and the rest of it, we will probably be ahead a much larger sum than we were last year.

The judges were Messrs. Wm. R. Smith, Jno. Saul, Geo. Fields and J. R. Freeman, all from Washington. They had a difficult task but they acquitted themselves with honor, both on the floor of the exhibition hall and on the floor of the banquetting hall, to which they and the club adjourned after the prizes were awarded. Long may they live and may kind Providence send us as able a quartette next time. MACK.

[The awards were given on page 327 of our issue for Nov. 19.]



VIEW AT THE INDIANAPOLIS CHRYSANTHEMUM SHOW.

Milwaukee, Wis.

The experience of the florists in the management of their first show has been trying and varied, but successful in spite of all. In the first place the week proved to be unusually active in society (we hardly know of a week in which so many weddings, receptions and dinners were given), the weather was gloomy until Monday, when it cleared up, and plants came in wagon load after wagon load and by 3 p. m. the hall was like a bee hive, everyone busy and full of hope and ambition, but about 6 p. m. a blizzard struck the town and next morning everyone wore a long face with hardly ambition enough to finish their work. Later arrivals of plants and flowers came in frozen; a beautiful lot which was kindly sent up by Mr. J. C. Vaughan was ruined, which gave the committee the blues; his cut blooms, however, fared better and although damaged they made quite a show and attracted considerable interest. One of our own florists, whom we look to for fine specimens, Mr. J. Dunlop, suffered in the same way. So Tuesday, the first day, was a discouraging one; but Wednesday was warmer, visitors began coming in and as soon as the committee heard the silver jingle at the door they became inspired. The first class orchestra which had been engaged when we expected to make money helped to fill us all with enthusiasm, the crowd increased steadily day and night until Friday afternoon, when it was crowded, but that night it rained; so we began with a blizzard and ended with a drizzle of rain. With all that we came out O. K. and are more than pleased with the success of our first venture. Thousands attended, expressed themselves pleased, went home and sent their friends. The newspapers stood by us bravely, the reporters apparently eager to excel one another in their reports and illustrations.

The plants and other decorations were arranged in the hall according to a plan prepared in advance. In the center was a two-story pagoda made of chrysanthemums. The lower story, 12 feet in diameter, was made of pot plants and smilax; the second story was a wire frame covered with cut blooms. This was entered for best general display and took the blue ribbon. On three of the corners high staging was erected which were covered with plants, palms, mostly as much as two stories high. The fourth corner contained a cave, inside of which was a parlor decoration. This little nook was crowded almost all the time. The decoration seemed to attract more attention than it would if arranged out in the hall.

Some tables of large flowers attracted very much attention. Many florists who looked at them could be heard saying, "they are very well for a show, but they could not be sold," but two days after the show opened the flower stores were refusing orders for them at $1 each. One florist who succeeded in getting them sold fourteen. This illustrates what value a flower show is. One hour before closing Mrs. E. P. Sawyer of Oshkosh offered her set of cut blooms to be sold for the benefit of the Old Ladies' Home. They brought $29. Mr. J. C. Vaughan and Pitcher & Manda gave theirs for the Emergency Hospital. They brought $17. The way those single blooms were taken up at from 20 cents to $1.30 each opened the eyes of some florists who say it don't pay to grow them for more than 50 cents a dozen. Mr. Chitty's carnations arrived

24 hours late, but were beautiful and received a certificate of merit, the prizes having been awarded day before. Mr. Dorner's beautiful Ben Hur met the same fate, also the White La France and Mme. Pierre Guillot roses of Messrs. C. Strauss & Co.

The members of our club felt much complimented by the appearance of Mr. John Thorpe and Mr. J. A. Pettigrew, of Chicago, and when they both joined in the labor of judging the plants and flowers we felt more grateful than is easy to express.

The premiums were awarded as follows: Display of plants, not less than 20 varieties, 1st C. Valom; 2d Currie Bros.; 3d H. Haessler, also certificate of merit for careful arrangement. Twelve varieties, 1st H. Haessler, 2nd G. W. Ringrose. Six varieties, 1st Currie Bros., 2d H. Haessler, 3d J. Freytag. Six white, 1st C. B. Whitnall & Co., 2d A. Middlemass, 3d F. Freytag. Six yellows, 1st C. B. Whitnall & Co., 2d A. Middlemass, 3d B. Gregory. Six pink, 1st C. Valom, 2d B. Gregory, 3d J. Dunlop. Six red, 1st J. Dunlop, 2d G. W. Ringrose, 3d C. Valom. Specimen plant, Pitcher & Manda. Best general display, 1st C. B. Whitnall & Co., 2d C. Valom, 3d A. Middlemass.

Cut blooms: Best collection cut sprays, 1st Currie Bros., no competition. Best 25 varieties, one bloom each, 1st James Lewis, Oshkosh, Wis.; 2nd Pitcher & Manda. Most artistic arrangement of cut blooms, 1st C. B. Whitnall, 2d Currie Bros.

In cut roses first premiums were awarded to H. Stapes for Mermets, Brides, Gontiers and best collection; to B. Gregory for La France; to Currie Bros. for Perles; certificate of merit to C. Strauss & Co. for White La France and Mme Pierre Guillot.

In carnations Currie Bros. were first for 25 pink, 25 scarlet and best general display; H. Stapes for 25 whites; a special premium to B. Gregory for a fine pink variety; certificate to H. E. Chitty for display of carnations and to F. Dorner for carnation Ben Hur. For 100 violets, first to J. Dunlop.

Best arranged basket, any style, 1st C. B. Whitnall, 2d W. Edlefsen, 3d C. Baumgarten. Best box cut flowers, 1st Wm. Edlefsen, 2d A. Klockner, 3d Currie Bros. Best arranged vase of flowers, 1st Wm. Edlefsen, 2d C. B. Whitnall & Co., 3d F. P. Dilger. C. B. W.

Racine, Wis.

The chrysanthemum show given here under the management of Florist F. Fountaine was a very creditable one, though the first ever held in this city. The plan upon which it was conducted is worthy the consideration of many other enterprising florists in cities not large enough to boast of a florist club.

In early spring he issued a neat premium list, containing also a price list of cuttings of the principal varieties of chrysanthemums; competition open to amateurs only. In this way much interest was excited and many cuttings were purchased and grown for competition. He took care to grow a fine lot himself to make the display effective. He got the ladies of his church interested, and they were of material assistance.

The display was effectively arranged. A table was handsomely decorated with plants and flowers, and here ladies in Japanese costumes served tea. Music added to the attractions of the exhibition.

From what I saw and heard I am sure that the flower lovers of Racine already appreciate the efforts of their florist in a way that will well repay him for the trouble and expense incurred.

C. B. W.

Erie, Pa.

The annual exhibition of the Erie Chrysanthemum Club drew out a large attendance and the splendid display was very greatly appreciated. The use of decorative plants as a foil to the chrysanthemums greatly increased the beauty of the display.

In the chrysanthemum plant classes Messrs. H. A. Niemeyer and H. Tong took all the prizes, Mr. Niemeyer taking 6 firsts and Mr. Tong 3.

In chrysanthemum cut blooms Messrs. Tong and Niemeyer also made a clean sweep, Mr. Tong receiving 7 firsts and Mr. Niemeyer 2.

In miscellaneous plants firsts were awarded to Wm. Honeysett for 12 geraniums, specimen geranium and 12 coleus; to Mrs. W. Niemeyer for begonias; to H. Tong for 50 greenhouse plants; to H. A. Niemeyer for 12 palms.

Of the first premiums awarded for floral arrangements Mr. H. Niemeyer received 4 and Mrs. W. Niemeyer 3.

A number of premiums were awarded to amateurs.

In quite a number of cases first premiums were withheld on the ground that the exhibits were unworthy of same and in a few cases even second was withheld.

Hartford, Conn.

The annual chrysanthemum show of the Hartford County Hort. Society was an excellent collection of exhibits. Though the plants were not as large as last year the display was very creditable and the show of blooms was especially fine.

In plants first premiums were awarded to J. H. Bardain for fifteen, six, specimen white and specimen pink; to James Smith for specimen Japanese, specimen Chinese and specimen pompon; to B. E. Beemer for three standards; to A. N. Pierson for 10 single flowered in 6-inch pots; to James Smith for seedling of 1891.

In cut blooms A. N. Pierson received firsts for twenty-five, ten, twenty cut sprays, twelve yellow, twelve pink and twelve white; B. E. Beemer for one specimen bloom; Paul Marchand for cut bloom from seedling of 1891. For 12 cut roses B. E. Beemer was first.

Diplomas were awarded to A. N. Pierson for largest number of new varieties; to Brown, Thompson & Co. for designs; to Pitcher & Manda for specimen cut blooms.

AURORA, ILL.—The chrysanthemum show and floral exhibition given by the ladies of the Park Place Baptist Church Nov. 10 to 13 was in spite of the unfavorable weather a success both financially and in the display of plants and flowers. The decorative plants displayed by M. R. Saunders were a credit to the grower. Messrs. Reese & Son, Tilton Bros. and Mr. Budlong deserve special mention for foliage and decorative plants. The display of chrysanthemum plants was excellent. Every visitor was surprised at the fine showing made by the florists and amateurs of the city. Reese & Son, Tilton Bros., Budlong and M. R. Saunders each received premiums and H. G. Gabel, amateur, was awarded many first premiums. All the plants showed care and skill on the part of the growers. In the cut flower department the Am. Beauty roses exhibited by Mr. Saunders were the favorites of all. The carnations and chrysanthemum blooms were also very fine.

ATLANTA, GA.—The annual chrysanthemum show was the finest ever given by the Atlanta Hort. Society. It was held in the rotunda of the state capitol. The display of plants are very large and of unusually fine quality. The principal exhibitors were J. E. Jackson of Gainesville, and Messrs. James Burpitt, C. A. Dahl & Co., and E. Wachendorf. There were many other displays, including one of cut blooms by Julius Martin of Little Switzerland. Of the first prizes for chrysanthemum plants and flowers, James Burpitt received 5, J. E. Jackson 2. Julius Martin received first for best new varieties. E. Wachendorf three 1sts for palms, begonias and pot chrysanthemums. C. A. Dahl & C., 1st for best floral decoration, best cut roses and best bouquets. Mrs. L. D. Carpenter, 1st for ferns. The society will hold a bulb show next spring

LYNN, MASS.—The Houghton Horticultural Society's chrysanthemum show surprised everyone by its excellence. The display was very fine. Of the prizes awarded, S. H. Davenport received 1sts for collection of named varieties in 10-inch pots, 6 in 8-inch pots, largest flower and best 26 blooms of Chinese varieties; James F. Marble, for 12 in 8-inch pots; E. A. Richards, for single specimen plant; J. C. Rogers, for 26 blooms of Japanese varieties. Gratuities were awarded to W. S. Ward, of Salem, for fine display of Japanese varieties; S. P. Buxton, of Peabody, collection of named varieties; Wm. Miller, 12 varieties; Thos. Roland, of Nahant, specially fine blossoms; Chas. Fohn, Nahant, specimens Lincoln variety; E. G. Blaney, Jr., honorable mention for two vases of flowers; E. A. Richards, honorable mention for bouquets.

BRIDGETON, N. J.—There was a very creditable display at the second annual chrysanthemum show held in the First Presbyterian Chapel. Robert Scott & Son, of Philadelphia, made a splendid display of cut blooms, in addition to the plants and flowers shown by local growers. W. H. Henderson of Cedarville received 1st prizes for best collection of pot plants and best collection of cut sprays in vases; Richard Bagg, 2d in the last-named class. In carnations, S. Edwards & Son were first. Prizes were also awarded to amateurs and for the best plant shown by a scholar in the public schools. It was decidedly the best display of flowers ever seen here.

SCRANTON, PA.—The fourth annual chrysanthemum show, given by Florists G. R. Clark & Co. at the Armory, was the finest display of the kind ever seen here and was visited by a large number of people. It was liberally praised by the local press and there can be no doubt that Messrs. Clark & Co. will be well repaid for their enterprise. At the meeting of the County Teachers Association, held during the exhibition, a prize of $10 was offered for the best essay on the chrysanthemum show. There were five competitors. The prize essay was a condensed but very graphic description of the exhibition.

ROCKFORD, ILL.—The chrysanthemum show given under the auspices of one of the local churches was quite an event. There was really a fine display, the principal exhibitors being Florists J. J. Soper,

H. O. Hinkley, H. W. Buckbee and Mr. W. S. Hizer. The first prize for "best display and variety" was awarded to J. J. Soper. Mr. J. C. Vaughan of Chicago displayed 22 different varieties, containing many of the newer sorts, which were much admired.

NORRISTOWN, PA.—Florist E. Metcalf's annual chrysanthemum display was attended by a large number of people, and was much praised by the local press. He charged an admission fee of 10 cents, giving in exchange therefor a ticket which entitled the holder to a credit of 10 cents on a purchase of $1 worth of flowers or plants bought during the show. He exhibited many seedlings of his own that promise well. Small prizes were offered, to be competed for by amateurs only.

NASHVILLE, TENN.—The chrysanthemum show given by the Evergreen Lodge Gardens of Clarksville, of which Mr. James Morton is manager, under the auspices of the Davis Monument Association, was very successful. Many very fine plants and flowers were shown and the association added about $1,000 to its fund. Joy & Son of this city also made an excellent display both at their city store and at the greenhouses.

FREDERICK, MD.—The chrysanthemum show was very successful and as one of the results the Frederick Floricultural Society was organized at the close of the exhibition. The officers elected for the ensuing year were Dr. Wm. H. Baltzell, Pres.; L. E. Mulinex, Vice-Pres.; Harry C. Keefer, Treas.; C. Edward Kemp, Sec'y. A committee was appointed to draft a suitable constitution and by-laws.

HARRISBURG, PA.—There was a very creditable display at the chrysanthemum show given by the Ladies' Advisory Committee of the Y. M. C. A. Fine displays were made by James Boyd, Major Bent, Senator Cameron and Florists Schafmeister, McClintock and Brenneman. Cut flowers were also shown by Mr. Wilbur of Bethlehem and Mr. Graham of Philadelphia.

SAGINAW, MICH.—This city was blessed with two chrysanthemum shows this year. One was held at Germania Hall, and was conducted by Florist William Roethke, and the other was at Arbeiter Hall, conducted by Florists A. Grohman & Sons, J. B. Goetz and Mrs. G. Waldbauer. Both displays were very creditable and received much praise from the local press.

DANVILLE, ILL.—Florist Frank B. Smith had over 350 varieties of the chrysanthemum at his exhibition at the Armory, including standards, single stem and large pot plants. He also made a fine display of cut blooms, including new varieties of 1891, some of which measured 10 inches in diameter. The display was admired and praised by every visitor.

AUGUSTA, GA.—The chrysanthemum show was far ahead of any previous effort in this line in this city. D. B. Woodruff took most of the prizes for chrysanthemum plants and flowers and P. J. Berckmans those for palms, agaves and coniferous evergreens. There was also a generous list of awards to amateurs.

LANCASTER, PA.—The chrysanthemum show held by the Ladies' Auxilliary of the Y. M. C. A. was attended by over 1,200 people and was a decided success from every point of view. One of the principal attractions was a beautiful display of cut blooms from Rob't Craig of Philadelphia, including many new kinds.

WILMINGTON, DEL.—The chrysanthemum show while not as elaborate as it might have been was a very fair display. Brown & Co. received the larger part of the premiums, the remaining prize winners being L. E. Baylis, Geo. W. Brinton, Harry Potter, C. E. Sparks, Herman Wolff and H. Hannum.

WALLINGFORD, CONN.—The annual chrysanthemum show of the Ladies' Library Association was a very beautiful display. Florist G. H. Rowden's collection was the largest. The competitors for prizes were all amateurs. The judges were Messrs. Robert and Archibald Veitch, of New Haven.

PITTSTON, PA.—Pittston is in the procession, and indulged in the luxury of a chrysanthemum show. Eight hundred plants in 150 varieties were shown, and the local press says the exhibition equalled those in much larger places. Certainly a good start was made.

KNOXVILLE, TENN.—The chrysanthemum show was very successful. The majority of the prizes were awarded to Messrs. T. M. Davenport and H. W. Richardson & Co. There is a movement on foot to organize a horticultural society here.

PORTSMOUTH, N. H.—A display of chrysanthemums from the conservatories of local amateurs was made at one of the churches during the height of the chrysanthemum season. So we have had our "chrysanthemum show."

WILLIAMSPORT, PA.—Florist Harry Chaapel gave his usual annual chrysanthemum show, and it was largely attended. The local press said many kind things about the beauty of the display.

LOS ANGELES, CAL.—The chrysanthemum fair was the most successful ever given here. The principal prize winners were the Highland Park Nursery, Oriental Nursery, L. J. Stengel and C. H. Hovey.

DURHAM, N. C.—Durham is in the swim and had its chrysanthemum show just as well as the rest of them. And it was a very creditable display too, though all the exhibitors were amateurs.

SAN JOSE, CAL.—The annual chrysanthemum show was more successful than ever before.

ASHEVILLE, N. C.—Plans are being made for a chrysanthemum show here next year.

Chrysanthemum Names.

EDITOR AMERICAN FLORIST:—You will please find herewith two more lists of names selected for chrysanthemums. The first received is from Messrs. Peter Henderson & Co., and is as follows:

Golden Wedding.
Autocrat.
Grenadier.
Tiger.
Pin-Wheel (we have had flowers which were said to resemble, or rather remind one of pin wheels, but the name has not been registered, nor is it in the English National Chrysanthemum Society's official catalogue).
Gettysburg.
Patrick Barry, (is said to resemble W. A. Manda).
Good Gracious.
Wm. Falconer. (This name was in use before for a single variety, raised and distributed, I think, by Messrs. Hallock & Thorpe some years ago; but as it cannot be found in any of the current catalogues, it is accepted. This is a sport from Louis Boehmer. It will be more popular than its parent on account of the color, which is a delicate shade of pink).
The Stranger.
The Blonde. (One named Blonde Beauty is in the English Chrysanthemum Society's official catalogue).
Mark Twain.
Polo.
Philadelphia.
Fire-brand.
Ella May.
Mrs. I. Forstermann.
Surprise.
Faultless.
Mrs. F. Schuehardt.
Indian Chief.
Julius Roehrs.
Evening Glow.
Popularity.
Goldfinch.
David Rose.
Majesty.

One name sent in by Messrs. Henderson I found in the official catalogue of the N. C. S. of England, so it will be necessary to select another name. This I hope will be a hint to other disseminators to first consult all available literature on nomenclature of the chrysanthemum before sending in the list of names for registration.

Mr. J. C. Vaughan also sends a list to be registered. Four in the list sent have already been adopted. Some of the names are in the above, but as Messrs. Henderson's list was received first, their names take precedence.

King's Daughter.
Tinted Venus.
W. J. Stewart.
E. V. Hallock. (This must not be confounded with V. H. Hallock).
Golden Gate.
Rudyard Kipling.
Timothy Hopkins.
Thomas Wallis.
Carrie Pierce.
Helen Wait.
Charlotte Lester.
Mrs. Gallup.
Avery Gallup.
Mrs. A. H. Bunde.
Margaret Ferry.

It would be better if brief descriptions as to the types to which they belong, and the colors, were forwarded with the names.

We may look for other sports from Louis Boehmer as I have received another name for registration for a variety which originated in the same way as "Wm. Falconer" (reported by Peter Henderson & Co.), and is described as a delicate pink.

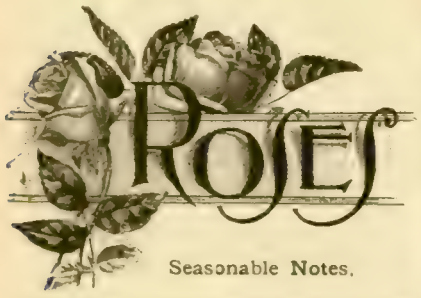
EDWIN LONSDALE,
Sec'y Am. Chrysanthemum Society.

American Carnation Society.

Mr. C. W. Ward of East Moriches, N. Y., has registered Scarlet Ray and Zebra. Mr. John McGowan of Orange, N. J., registered the following: Iago, New Jersey, Katherine Storrs, Old Rose, Pride of Essex and Purple Beauty.

A. M. HERR, } Com. on
C. J. PENNOCK, } Nomenclature.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.



Seasonable Notes.

Now that the chrysanthemum shows are over, growers will need to turn their attention to other crops, and, among other things, roses will need some immediate attention, particularly from those who have not given them as much care as they might in the past few weeks, as, I doubt not, many in the rush of show business have allowed the weeds, etc., to make some headway. Where such is the case no time should be lost in getting them cleaned of all weeds, dead or decaying leaves, and where the surface shows any tendency to become green, it should be carefully rubbed over. When slightly on the dry side and where needed a little more mulching should be added, just enough to keep the soil from becoming bare. If the manure is somewhat exhausted, a very thin dressing of pure ground bone before putting on the mulching will help them to produce quick root action, and thereby induce stronger growth, which in the very near future will produce larger and better quality buds.

For beds and benches newly planted this season I do not advise liquid manure until the days begin to lengthen and the sun gets considerably stronger; but where the old plants have been carried over in the same position a good watering with weak, clear liquid manure once in about every two weeks will greatly help them. But care must be taken to have the soil in a proper condition before applying it by getting it slightly on the dry side. There can be no exact rule laid down for the time or day to apply it, because the condition of the weather and the soil must be studied so as to be sure the plants, or rather the soil, is in the right condition before using it, because if it is not, more harm than good will result from its use. These and other small details are really the whole foundation of success.

The weather will be such now that a steady fire heat will be required all the time. This, with a small amount of sulphur on the pipes, will effectually keep mildew away, but black spot is not so easily banished. The best preventive of this disease I have yet found is to avoid all surplus moisture at night. By watering early in the day and giving air liberally all the surplus moisture gets dried up before night, leaving the atmosphere of the house in a nice, healthy condition.

As soon as green-fly shows itself apply tobacco in some form, either as vapor, smoke, or fumes, from the stems scattered over the floor, whichever way has been found the most desirable. Do not wait until the fly has almost smothered the young growths, for such a condition means considerable loss of vitality to the plants.

Keep the night temperature as near 56 as possible, allowing it to rise gradually in conjunction with air during sunny days until it reaches 78° to 80° with plenty of air in the middle of the day, and if you wish to keep the plants healthy do not allow the temperature to exceed 66° to 68° without putting on some ventilation. There should be no deviation from this rule. On cloudy days it pays to make the maximum heat 65°. JOHN N. MAY.

New York.

The sensation of the week is the consolidation of the two wholesale cut flower establishments, Thos. Young, Jr., and John Young. The two brothers have kept up a hot competition for the past year, but have rightly come to the conclusion now that in union there is strength and have agreed to bury the hatchet, forget the differences which caused their separation and unite against the common enemy, as it were. Both of these gentlemen are popular and have had a thorough business experience and the new concern is sure to get its full share of the New York trade.

Burns & Raynor's new store at 49 West 28th street is getting into shape now and is the ideal place for a cut flower business, large and with abundance of light.

Cut flower trade continues brisk and now that chrysanthemums are beginning at last to decline the prospects for the rose and carnation men are first rate. American Beauty and violets continue at the top notch. The quality of the latter is improving greatly. The amount of funeral work done by Thorley, Fleishman, Hafner and other florists for the actor Florence was enormous. Quite a lot of flowers were also sent on from Boston and other cities.

The Madison Square Garden Co. are making preparations to pay out the premiums awarded at the chrysanthemum show. $5,775 of the amount is in money premiums and $875 in cups.

First prize for best vase of chrysanthemums was won by Jas. Brydon, not Geo. Stumpp, as previously stated.

Mr. August Rolker, who has just returned from a recreation trip across the Atlantic, speaks in high praise of the new German Lloyd route from New York to Genoa, he having been a passenger on the first trip of the "Fulda" on that route. The scenery he describes as being far superior to that seen on the old steamer routes, the course passing through the Azores, past Cape St. Vincent, Gibraltar, the Balearic Islands, the Riviera in full view of Nizza, Monaco, Monte Carlo, San Remo and the snow-capped Alps. For those travelling in the winter months he recommends the trip highly, the passage eastward especially having been as pleasurable as a trip on the Hudson, although the boats on the northern routes were at the time experiencing exceedingly rough weather.

Mr. Rob't M. Grey, formerly of Pittsburg, Pa., has been engaged to take charge of the orchid and choice plant houses of Mr. Henry Graves at Orange, N. J. Mr. Grey is a son of Wm. Grey, the well known gardener at Mr. Erastus Corning's at Albany, and a brother of Benj. Grey, of aquatic fame, at Malden, Mass., is well equipped with horticultural and botanical knowledge and is just the man for the place.

There will be another big trade sale of "Florists' orchids" from Sander on Thursday, Sept. 10.

Boston.

Thanksgiving week has been a very prosperous time for the florists. For the first time in several years the holiday and the days immediately preceding it have been all that could be desired as to the weather. One florist says that when you can leave the store door open so people can see in it makes more difference in the amount of transient trade than anyone would imagine. Flowers of all kinds were sold out clean both with the wholesalers and the retailers. The day before Thanksgiving day the demand was especially brisk and the market was literally cleaned out. Violets were in great demand and there were not enough to go round. On Thanksgiving morning, however, the call for violets was unexpectedly light and many of the stores were left with quite a little stock of them on hand.

Chrysanthemums are on the wane. The best obtainable now are none too good and will keep but a little while after being brought in. Roses are in good quality and improving every day. Carnations are also first class and appear to have fully recovered from the set back they experienced in September from the warm weather. Roman hyacinths and paper white narcissus are now in market, also a fair supply of callas. Stevia is also beginning to appear. Lily of the valley is more plenty. Galvin's window is decorated with cypripediums and Adiantum Farleyense, a welcome change from the monotonous mountains of chrysanthemums which have pre-empted every inch of space in the florists' windows for the past month.

E. M. Wood & Co. are sending in quantities of Waban roses from their Waban Conservatories. As they grow it, no one can find any fault with this rose.

There have been several notable weddings the past week in which decorating was done extensively, especially in the churches.

Jackson Dawson and his good lady celebrated their silver wedding on Tuesday, Dec. 1. Quite a number of their gardener and florist friends were present and helped them to celebrate in old fashioned style.

Chas. Ingram, formerly of McGregor & Ingram, has gone to the employ of Mr. W. H. Proctor, Reading, where they expect to build up a good local florist trade.

Fisher Bros. have just added another hundred foot house to their establishment at Montvale. Frank Becker has also added two houses to his already large place at Cambridge.

On Friday, the last day of the chrysanthemum exhibition, the attendance was the largest ever recorded on any one day at an exhibition in Horticultural Hall.

Geo. W. Wilson of Malden, the well-known old-time Bon Silene and Jacq grower, is reported as very sick.

Chicago.

Thanksgiving trade this year was hardly up to expectations. The trade of most of the dealers was quiet. While a few report a satisfactory business the concensus of opinion seems to be that trade was lighter than in former seasons. The stock was fairly plentiful, but not of a very high grade. American Beauties were in large demand, with but a very small supply. Outside of Beauties there were plenty of roses to supply the demand. For the first time in a number of years the prices were not advanced to any marked degree. An average advance of about $1 per hundred was asked by the commission men. The same may be said of long stemmed carnations. Stock plentiful excepting bright red, which were rather scarce. No advance in prices. There was a heavy demand for violets, but as these flowers are so very scarce it



ARRIVAL OF THE OLD PLANT OF CATTLEYA LABIATA AT ST. ALBANS, ENGLAND.

cut but a small figure in the Thanksgiving trade.

Chrysanthemums still hold their own, although from present indications we shall see the last of them in about a week. Roman hyacinths are coming in very freely, but do not sell any too well. The trade for the balance of the week was unusually quiet.

Mr. John Thorpe is off on a trip through the east in the interests of the Floricultural Division of the World's Fair.

Reinberg Bros. have removed to 51 Wabash avenue.

John Lietzau & Bro., the florists at the corner of Webster and Sheffield avenues have been closed by the sheriff.

"Wells, florist," is the sign on a new floral store at 280 North Clark street.

E. J. Harms has sold out his wholesale business to John Bruckner and has opened a retail store at 113 and 115 State street.

A special meeting of the Florist Club has been called to consider the advisability of a spring exhibition on a plan presented by the Horticultural Society.

Mr. J. A. Pettigrew has been having trouble with his eyes and was for a while confined to the house, but is now able to be about again. But he will have to wear glasses for several years.

Mr. M. F. Gallagher is about again after an illness that confined him to his bed for several weeks.

Mr. Paul Berkowitz of Bayersdorfer & Co., Philadelphia, paid the florists a visit last week.

Mr. Frank Huntsman came up from Cincinnati and enjoyed Lake Michigan's breezes one day last week.

Philadelphia.

Mr. H. F. Michell, the genial secretary of the Florists' Club, has resigned from the service of H. A. Dreer, where he has been for a long time, to engage in business for himself. He has purchased the stock and fixtures of W. H. Smith, the seedsman who recently failed. The store, on Market above Tenth, is in a good location. With Mr. Michell's experience and original ideas he will no doubt be able to build up a large business. We wish him success.

Roses are fairly plenty, with the exception of La France, which is scarce, the first crops seeming to be all cut out. John Burton is sending in some very nice Wabans, the best specimens we have seen of it so far. With quite a number of growers the complaint is the green centre, something like a "bull head" Bride. Prices are about the same as last week. There are not enough American Beauties to go around.

Chrysanthemums are on the wane. A great many were used for Thanksgiving trade. Almost all the growers are cut out except W. K. Harris, who has a fine lot of late varieties.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Cattleya Labiata.

The rediscovery of this valuable cattleya and its introduction to commerce in quantity after having been a rarity for so many years has created almost a sensation among orchid growers and the accompanying illustration of the arrival of this cattleya in England will be of interest.

We'll Send Them Bowling Along!

BY JAMES D. LAW, CAMDEN, N. J.

[*Sung at the Chrysanthemum Supper of the Florists' Club of Philadelphia. Air: "Marching Through Georgia."*]

When Time falls in with Flora, and calls upon the Dame
To name the favored few to pass within her house of Fame,
The Philadelphia Florists' Club shall enter with acclaim—
They'll all go bowling along!

The first is *Craig*, the President, chuck full of Go and Grit,
At everything he undertakes he makes a ten pin hit,
The Chief of Scottish Chieftains, an Orator and Wit,
So we'll send him bowling along!

CHORUS—
Hurrah, hurrah! The daisy boys are we!
The *Quaker City Florists' Club* of ancient pedigree,
Throughout the States and Canada from ocean clear to sea
Our Fame goes bowling along!

There's Secretary *Farson*, a brick in word and deed,
He should have been a Parson, as all the boys concede,
He dares to be a *Daniel*—and the friend of Dr. Reed,
So we'll send him bowling along!

And then there's Captain *Anderson*, whose vile sulphuric fumes
Would give Destroying Angels points when breathed on bugs and blooms,
And yet our Champion Bowler's face Benignity illumes,
So we'll send him bowling along!

There's *Edwin Lonsdale*, Duke of York, from public gaze he shrinks
And yet none better knows the ropes and all the quirks and kinks,
The Pink of Floral Presidents, the President of Pinks,
So we'll send him bowling along!

And then there's *George C. Watson*, his words so smoothly jibe,
He has been styled the Barnum of all the Flowery tribe;
He's prompt, progressive, practical—a sweet, seductive scribe—
So we'll send him bowling along!

There's *Westcott*—pushing "get there" *John*, with steam in woudrous store,
The more he finds there's work to do he always works the more,
The King of dandy fishermen, the Waretown Commodore,
So we'll send him bowling along!

And then there's *Thomas Cartledge*, who counts and keeps the cash,
And with financial skill averts a monetary crash
He has not yet for Canada thought fit to make a dash,
So we'll send him bowling along!

And then there's twice bless'd *Harris*, the Deacon and the Bard,
His sermons and his ready Rhymes are held in high regard,
And Glory everlasting will be his sweet reward,
So we'll send him bowling along!

There's *Burton*, Legis'ator *John*, the Boodler and the Boss,
And tho' his words are coated now with diplomatic gloss,
He takes a turn among the boys when lesser cares engross,
So we'll send him bowling along!

There's *David Bearn*, the batchelor, who keeps the Cameron gold,
His state of single blessedness is painful to behold,
But Davie he's a Thistle of the classic Scottish mold,
So we'll send him bowling along!

And then there's bright, electric *Bob*, progressive Bowler *Kift*,
He's in the swim without a doubt, however winds may shift,
A Prestidigitator with a true Poetic gift,
So we'll send him bowling along!

And then there's *Charlie Evans*, the Brummel of our Beaus,
The sponsor of "Her Majesty" and many a famous Rose,
We learn his lease of single life is drawing to a close,
So we'll send him bowling along!

There's long-legged *William Colflesh*, who lives upon a hill,
The one and only rival of our rhyming deacon Bill,
The last remaining friend of "Jacque," whose fame is living still,
So we'll send him bowling along!

And then there's Piper *Nisbet*, with tartan plaid and kilt,
Oh, what a burst of melody is bunched above his belt,
The very incarnation of a Florist and a Celt,
So we'll send him bowling along!

And then there's *H. H. Battles*, with deep discerning mind,
At Painting and at Criticism he leaves the boys behind,
His aid is freely given to assist the color blind,
So we'll send him bowling along!

And then there's Drexel's *Vernor*, he's always in the game,
And with his plants and prizes extends the Drexel fame;
At every show an easy first the judges all proclaim,
So we'll send him bowling along!

And then there's *Richard Heron*, a stalwart to the core,
An adept at the Alley Pins, and crammed with flowery lore,
And yet withal a fighting bird that few can stand before.
So we'll send him bowling along!

And then there's *Hughes* the Welshman, who sings his country's songs,
We've seen his fine Caladiums admired by countless throngs,
For Wootton Mangel-Wursels too, the prize to him belongs,
So we'll send him bowling along!

There's *August Lutz*, whose august looks his worth and weight attest,
He has been dubb'd Chief Magistrate by Deutchers of the West,
And well we know Trans-Schuylkill folks will only take the best,
So we'll send him bowling along!

There's *Baker*, in his element when head first in a brawl,
His speech is now but little else than one long caterwaul,
Yes, Bake's a chronic growler, but a good old soul for all,
So we'll send him bowling along!

There's *Heacock* next—Carnation Joe—it was his wish and will
To have a Floral Market once—'twould surely fill the bill,
But here he lives and totes around his little basket still,
So we'll send him bowling along!

And then there's *Huster*, of Girard's, thro' all the land he's known,
He's far too fine a gentleman to pass his days alone,
We hope he'll be surrounded yet with Boys he cal's his own,
So we'll send him bowling along!

And next there's *Charlie Longinette*, who never makes a break,
For every form of gentleness he fairly takes the cake,
The only Bowler in the Club that makes the Captain quake,
So we'll send him bowling along!

And then there's budding Bowler *Craig*—the hermit *George* of yore,
The prompt and active secretary of the Bowling corps,
No flies on him—he's set his mind on piling up his score,
So we'll send him bowling along!

And then there's *Isaac Kennedy*, with Herculean powers
An extra fine authority on Bowling and on Flowers,
We're glad indeed to point him out and claim the boy as ours,
So we'll send him bowling along!

And then there's *Harry Michel*, and he's a hustler too,
The Secretary of the Club with always lots to do,
But "every little helps" you know, to pull a fellow through;
So we'll send him bowling along!

And then there's Teuton *Charlie Fox*, a sprightly sort of sprout,
His decorations are the best without a shade of doubt,
He's quite a nimble quadruped to be so very stout,
So we'll send him bowling along!

And then there's *Campbell*, he's a youth of bouquet-making fame,
He'll make the Growers hus le now, and make himself a name.
To make the best, his motto is; to give the best, his claim,
So we'll send him bowling along!

The next's a rara avis of countless kin and kith,
And he's a plant that never shows a poverty of pith;
Plain *John* to us, he claims descent from Pochohontas *Smith*,
So we'll send him bowling along!

And then there's *Harry Standen*, tho' single armed and small,
Because his fine Chrysan hemums have always got the call,
He would not miss a single show, tho' Heaven itself should fall,
So we'll send him bowling along!

And then there's *Chester Davis*, who hits Jim Vernor hard,
And Landscape Gardener *Charles Sim*, a veteran, bronzed and scarr'd,
And *Griffin* and *Allburger*, their march can none retard,
So we'll send them bowling along!

There's brother *Ball* from Holmesburg, with voice as sweet as balm,
A cyclopædic business man, collected, cool and calm,
And when it comes to raising plants he bears away the palm,
So we'll send him bowling along!

There's *Gibson* and there's *Andre*, from Doylestown they report,
And in the good old county Bucks, they grandly hold the fort;
Their fame will live for years to come, though of the mushroom sort;
So we'll send them bowling along!

There's *Albert Herr*, of Lancaster, a rising young ster he,
Carnations are his specialty, as all the boys agree;
And some predict, in course of time, with ease he'll top the tree,
So we'll send him bowling along!

And then there's *Isaac Sailer*, who dearly loves a joke,
And tho' some say his labors all terminate in *smoke*,
As donor of a yearly prize he makes a masterstroke,
So we'll send him bowling along!

And then there's *Smith*, of Washington, to him the country turns
For what is best in Botany and what is best in Burns,
His name will live, with sun flowers linked, till Time itself adjourns,
So we'll send him bowling along!

There's *Thorpe*, a youth at fifty-one, we note his vacant chair;
As grower of Chrysanthemums he's King, the boys declare—
The Chief of Floricul ure at the World's Columbian Fair,
So we'll send him bowling along!

There's *Stewart*, who wields a ready quill, a fault we can condone,
As Writer and as Specialist but few are better known;
The genial, shrewd Bostonian and "the Florists' Telephone."
So we'll send him bowling along!

And then there's Presidential *Dean* who makes conventions whizz;
"Remember, Boys, that Bowling now must never mix with biz"—
He coined the famous phrase himself and all the fame is his,
So we'll send him bowling along!

And then there's *Jim* the *Penman*, a man whose fame extends,
Thro' every land and every clime to earth's remotest ends,
The Gardeners' Doctor Johnson and the Florists' Friend of Friends,
So we'll send him bowling along!

And then there's *Charlie Weathered*, the genial and the just,
A ne-plus-ultra Green-House man, in whom we all can trust,
He hopes to raise a whisker and "his boilers never bust."
So we'll send him bowling along!

There's Bowler *Rochrs*, from Gotham, the Captain of his team,
And Indian Jungle *Forstermann*, in Orch'ds he's supreme;
Yes, all the crew—from first to last—are held in high esteem,
So we'll send them bowling along!

There's *William Albert Manda*, a youthful sort of sage,
A master of the secrets concealed in Flora's page,
Enthusiastic Botanist and marvel of his age,
So we'll send him bowling along!

And then there's *Ernst Asmus*—he reached the top they say
Embower'd among the roses with *John* New Jersey *May*,
There's *Bogan* and there's *Haman* and dandy boys are they,
So we'll send them bowling along!

And then there's Bloomsburg *Dillon* and genial *Moses Rice*,
La Roche and *Stahl* and immortelle immortal *Eugene Weiss*,
To give the names of all the boys a week would not suffice,
So we'll send them bowling along!

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a young man, age 24; large experience in greenhouse plants. Speaks French, Flemish and little English. Good references. Address
ART DEMEYER, Porte Anvers, Ghent, Belgium.

SITUATION WANTED—By a single young man who has had good experience in England and America growing cut flowers, violets, carnations and roses. First-class references. Address
M. ALEXANDER, 40 Bradley St., Watertown, N. Y.

SITUATION WANTED—By a single man as gardener and florist, in private or commercial place where best stock and neatness is wanted; 14 years' practical experience. A No. 1 references. Address H H, care Chas. Holley, Ridge St., Glens Falls, N. Y.

SITUATION WANTED—By a first-class florist; German; single, age 25 years; thorough knowledge in growing roses, carnations, palms, etc.; propagating, and also know how to grow chrysanthemums for exhibition. Well up in design work and decoration. Position as foreman or good private place. Can give references. Address
BOX 200, care American Florist, Chicago.

WANTED—A good storeman. Must come well recommended. State wages expected.
BERTERMANN BROS., Indianapolis, Ind.

WANTED—A few stock plants of Chrysanthemum Vivian Morel. Address, with particulars,
ILLINOIS, care American Florist, Chicago.

WANTED—A good, sober gardener; one that is good to propagate as well as work in a greenhouse. H. MOORE, 54 Beale St., Memphis, Tenn.

WANTED—Decorator. A young man of good address, able to sketch decorations—both bunting and plants—and to carry out the same. Address
Lock Box 988, Philadelphia, Pa.

WANTED—A young man of good address, who understands the growing or palms and ferns. Must be sober and industrious. Address
P. S. RANDOLPH, East End, Pittsburg, Pa.

WANTED—A good rose grower (Married man preferred). Good salary. Must come well recommended. Address E HENRY,
care Michel Plant and Seed Co., St. Louis, Mo.

WANTED—Young man (German preferred) 17 to 20 years, who has had a little experience in greenhouses, to run steam boiler, &c. Steady work. State wages, and address GREENHOUSES,
care Carrier No. 1, Battle Creek, Mich.

WANTED—For our floral department, a young lady who has had several years' experience in selling and making up designs. Must come well recommended, and of pleasing address. Apply by letter, stating age and experience.
B B, care American Florist, Chicago.

FOR SALE—A good property within 50 miles of Chicago; four acres, 10 000 feet of glass; complete All the trade you want. Satisfactory reasons for selling. CORNELL, care Am. Florist.

TO GARDENERS AND FLORISTS.

J. C. GOODING, the well-known rose grower, wishes to retire, and will dispose of his greenhouses, all well arranged, heated by steam, about 16,000 feet of glass, dwelling and barn; lot 160x350; good location, within city limits. Cash, half down. Address **1216 Euclid Ave., Cleveland, O.**

FOR SALE.

A long-established private collection of orchids in good flowering condition. Private party will find good opportunity of purchasing, as these flowers will be in excellent bloom of Cattleya Trianæ and Percivaliana by the holidays. Also a splendid collection of cypripediums. Address
JOHN H. FLANAGAN, Artist,
Room 25, Morning Journal Office, New York.

SEED BUSINESS FOR SALE.

A rare opportunity afforded to a young, active florist and seedsman, to purchase an established Seed Business, within a square of the New Reading R. R. terminal; also a short distance from the Penna. R. R. Broad St. Station. It is one of the best locations on Market St. for a local and transient trade. For information, address
P. O. BOX 1570, Philadelphia, Pa.

CYCAS REVOLUTA STEMS



by weight, roots and fronds cut off. For these we book orders at EXTRA FAVORABLE RATES up to

NOVEMBER 20TH,

in small or large quantity.

THE TRUE LONG-LEAVED VARIETY,

in sizes from 3—4 inch to 4—6 feet. We imported past season over 30,0 0 lbs., and can refer to some of the best known firms in the U. S. as to satisfactory results.

Remember a Cycas is a safe investment.

ALSO ORDERS TAKEN FOR

RHAPIS FLABELLIFORMIS.

Can send you all safely by freight. Full information as to prices, time of delivery, freight rates, etc given on application. SEND FOR CATALOGUE.

Send orders to

H. H. BERGER & CO.

SAN FRANCISCO, CAL.

For Sale Cheap.

	Per Doz.
HIBISCUS SINENSIS, very strong, 4-in. pots,	$2.00
CROTON Aureum and Interruptum, 4-in. pots, 12 to 18 inches high	2.50
BOUVARDIA Alfred Neuner, double white, 5 in. pots, in bloom	1 50
PASSIFLORA PRINCEPS, Red Passion Vine, 4-inch pots, very fine stuff. . . 50c. each.	
ADIANTUM CUNEATUM, fine stuff from 5 inch pots, in perfect health.$20 per 100,	2.50
GARDENIA FLORIDA, Cape Jasmine, 4-inch pots, strong and bushy. . . . $15 per 100,	2 00
HYDRANGEA Thos Hogg, 4 inch pots, strong,	2 00
CHRYSANTHEMUMS, fine stock plants of leading sorts, 5 and 6 inch pots	2 00
PRIMULA OBCONICA, 4-inch pots.	1.25
PRIMULA OBCONICA	2.00
PASSIFLORA ELATA, 4 inch pots.	2.00
PASSIFLORA ELATA, 5-inch pots.	3 00
AZALEAS, with buds.	3.00

Write for wholesale price list.

MICHEL PLANT AND SEED CO.,

ST. LOUIS, MO.

Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Bon Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000.

TEA ROSES, 30 sorts, from open ground, extra strong, $4.00 per 100.

HERMOSA, strong plants, $6 00 per 100.

HYBRID PERPETUAL, sorts including JACKS, years old, extra strong, $10.00 per 100.

SMILAX. Good strong plants, $2.50 per 100; $20.00 per 1,000.

WOOD BROTHERS,

FISHKILL, N. Y

Mention American Florist.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,

Louisville, Ky.

Hydrangea ramulus coccinea, 1 year old, strong plants from open ground $25.00 per 100. **Hydrangea Otaksa and Thos. Hogg**, 2, 3 & 4 year old, very strong plants, from open ground, $25, $30 and $40 per 100, according to size. **Ampelopsis Veitchii**, 1 year old from open ground, $3.00 per 100. Orders from unknown parties must be accompanied by cash. **JOHN RECK, Bridgeport, Conn.**

ROOTED CUTTINGS.

Carnations. Some 30,000 feet of glass are devoted to Carnations alone, with two propagating houses each 100x10; these will be kept filled with cuttings of the three best Novelties of last season—**LIZZIE McGOWAN, HECTOR and GOLDEN GATE;** also the best of the older sorts and other novelties of merit. They will be ready for delivery DECEMBER 20th and later as desired. CUTTINGS will not be sent out until well rooted and every effort made to give satisfaction in all particulars.

READY NOW, a fine lot of **GERANIUM CUTTINGS,** all of the very best varieties Old and New, making them cheap at the price, $2.00 per 100; $15.00 per 1000. Other miscellaneous stock later on. It will pay you to watch my adv. for changes.

Correspondence Solicited. Descriptive List on application.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

Rooted Cuttings.

CARNATIONS. Six Novelties of 1892. All the Best Varieties of 1891. Best Standard older sorts.

COLEUS. Twelve Bedding. Twelve General Purpose. Twelve Fancy Varieties. The finest collection on the continent. Samples labeled, 25 cts. per set. The three sets, 60 cts.

GERANIUMS. Three sorts good for any purpose: Double Gen'l Grant, scarlet; Centaurea, pink; La Favorite, white.

First quality stock Low prices for cash. Send for List. Give me a chance on what you want.

ALEX. McBRIDE, Alplaus, N. Y.

PALMS and DECORATIVE PLANTS

ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

4,000 Adiantum Cuneatum, 6-in. pots, $35 per hundred.

15,000 Chrysanthemums, fine plants.

Rooted Cuttings of Roses, Carnations, Violets, Geraniums, Chrysanthemums, Coleus, Alternantheras in all the leading varieties.

10,000 Rose plants, prices on application.

A. N. PIERSON, Cromwell, Conn.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,

Edmund M. Wood & Co., NATICK, MASS.

JACK ROSES

12,000 one year old, 2½ to 3 feet high, well branched, $15.00 per 100.

5,000 two year old, 3 to 4 feet high, well branched, $20.00 per 100.

Also 2,000 fine assorted H. P. Roses, one year old, $15.00 per 100.

JORDAN FLORAL CO.,

706 Olive Street, ST. LOUIS, MO.

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
SMILAX, 2½ inch pots	$1.50	$12.00
CHRYSANTHEMUMS, 5-inch pots.	8.00	
CHRYSANTHEMUMS, large stock plants in variety.	20.00	

Address **J. G. Burrow,**

FISHKILL, N. Y.

THE AMERICAN FLORIST AND MEEHAN'S MONTHLY

in Club one year for $2.75.

Address ***AMERICAN FLORIST COMPANY,***

54 La Salle Street, CHICAGO.

ROSES.

Wide awake florists will purchase their Roses now, while in a dormant condition. Our plants shifted now in larger sizes of pots, will give you a return of 100 %.

We have now ready 50 000 in 2-inch pots, $3 per 100; $30 per 1000, our selection. 25,000 in 3-inch pots, $5 per 100; $50 per 1000. Also a fine lot of HYBRIDS, $5 per 100; $50 per 1000. Larger sizes from $10 to $20 per 1000.

Send lists to be priced. New Catalogue ready January 1.

Address **NANZ & NEUNER,**

LOUISVILLE, KY.

DO YOU USE

ROOTED CUTTINGS?

If so, send for my price list of CHRYSANTHS, COLEUS, FUCHSIAS and GERANIUMS.

S. B. FIELD, Roselle, N. J.

F. A. RIECHERS & SOHNE, Act-Ges,

Import and Export Nurseries,

HAMBURG, GERMANY.

Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.

☞ Wholesale Catalogue on application

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Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE VALUE of elaborate displays of their goods at such times as effective displays can readily be made, as an advertisement of their business, is fully appreciated by many of the florists, and during the chrysanthemum season now closing such displays have been more numerous than ever before. And some are supplementing these displays with printed invitations to the same that show much originality and good taste. Among those we have received and that are worthy of special mention is one issued by Mr. W. J. Laing of Toronto. It is a neat folder, on the outside page of which was the inscription "Queen of Autumn at Home Thursday, Friday and Saturday," and attached to the cover with a bit of ribbon was a small chrysanthemum and a frond of adiantum. On the right hand inside page was the invitation. The invitation issued by Mr. J. M. Gasser, the Cleveland florist, to the display at his store Nov. 19 to 21 is also unique. It is printed on celluloid and at one side appears a gilt vase of pink, yellow and bronze chrysanthemums excellently done in color.

THE printed proceedings of the Toronto convention of the Society of American Florists has been received from Secretary Stewart. It is a handsomely gotten up volume of 164 pages, finely printed and full to the brim of valuable and interesting essays, discussions and reports. It is a credit to the society and illustrates as vividly as anything can the progress the society has made, the work of real practical value that it is doing and the power that it possesses to carry forward to a successful issue what it undertakes. Secretary Stewart is entitled to much credit for the handsome appearance of the volume typographically. It bears evidence of much conscientious, painstaking work and close reading of final proofs.

ANOTHER lot of carnation flowers has been received from Messrs. Hill & Co. Among them were Creole, very dark crimson; Ben Hur, light pink; Gypsy Queen, a still lighter shade of pink than the preceding; M. A. Hunt, very similar to the last named; Salmon Queen, a very beautiful shade of salmon; Indiana, light pink striped with a darker shade; Edna Craig, a very light pink (a beauty); Hoosier, scarlet; Attraction, very bright scarlet and petals deeply fringed, a strikingly beautiful color and one that will "take"; Mrs. Hitt, deep pink; Christine, pink, almost white; White Dove, a fine white, deeply fringed, a beautiful flower.

THE SEASON for hard firing has arrived, and with it the usual crop of reports of greenhouses damaged or destroyed by fire. An ounce of prevention is worth many pounds of cure. You know where fires in greenhouses originate 99 times out of a hundred, and you know where to put the ounce of prevention. If you have taken proper precautions, you have something better than fire insurance, and if you haven't taken them no responsible insurance company will sell you a policy.

MR. AUGUST ROLKER has returned from Europe in restored health and expresses himself as very thankful to his friends for the numerous inquiries as to his condition and expressions of sympathy during his illness.

Toronto.

The Gardeners' and Florists' held their annual meeting Nov. 25, and elected officers for the ensuing year. There was a very large attendance of both members and honorary members, and the various speeches and reports were received with the utmost enthusiasm.

The result of the elections may be considered satisfactory in every way except to your humble servant the undersigned, who lost a bet on the result of the presidential election through putting faith in a "tip" whispered in his ear by a "little bird"; the bird was a liar of the first water, and will be shot on sight the next time he attempts to forecast the results of an election.

Mr. John Chambers was elected president for a third term by a large majority. Mr. Thos. Manton was elected 1st vice-president; Mr. A. Gilchrist 2d vice-president; Mr. A. H. Ewing had no opposition for the position of secretary, nor had Mr. H. Simmers for the treasurership, or Mr. Geo. Manton as assistant secretary. The following members were elected for the executive committee: Messrs. J. H. Dunlop, Geo. Vair, F. G. Foster, S. E. Briggs, C. Arnold, R. Mearns and Geo. Reeves.

With this lot of officers I think there is no manner of doubt but that the club will continue to go ahead as much as or more than it has done during the two years of its existence.

Mr. A. McPherson, who won the silver medal at the late chrysanthemum show for the best collection in 6-inch pots, was presented therewith and after vociferous calls for a speech Mac. gracefully responded. A medal was promised by the same generous donor for competition at next year's chrysanthemum show.

The executive committee was instructed to bring in a report at the next meeting as to where and when it would be advisable to hold the annual dinner of the club.

Mr. John Chambers made a neat speech congratulating the club on the success of its undertakings during the last two years, thanking the officers and members for their assistance, etc.

The treasurer reported that there was a nice little balance of about $500 to the credit of the club in the bank, which statement was received with much applause. Mr. Gilchrist was certainly a model treasurer, and much regret was expressed that he declined to take the position again on account of living too far out of town.

The secretary reported 46 new members during the year and 4 honorary members, a total of 133 members; of these 91 were in good standing and 42 indifferent and bad. E.

A Sociable.

Mr. John N. May gave to the members of the N. J. S. F. Club and their friends a pleasant reception at their club rooms at Summit on Saturday evening, Nov. 21. The usual quiet of the club was disturbed with sounds of merriment when we arrived; we were just in time to hear Mr. May's good story of the "Vermont Dominie," which called forth peals of laughter. Many other witty stories and jokes were told, when lo! two men enter carrying an immense tray laden with comforts for the inner man, followed by two more modern Hercules bearing a temperance brewery on their stalwart shoulders. A grand descent was made on the good things, after which the fun ran high, the Major making a decided hit on the intricate relationships of the "Wild Man of Borneo," while Mr. Joseph Manda rendered the beauties of "Maggie Murphy's Home," which was encored. As it is nearing the midnight hour all stand up and tender a vote of thanks to the tune of "He's a jolly good fellow" to Mr. May, who is always on the alert to make and cement good fellowship among the craft. Success to him. P.

Montreal.

Notwithstanding that our G. and F. Club have to draw on their reserve fund pretty heavily to pay the premiums at the chrysanthemum show it has resolved to hold the usual spring show on or about the 15th of April.

It is also proposed to adopt the plan of giving a lump sum in each section to be divided between the exhibitors according to the number of points awarded.

The prospects are good for big meetings of the club this winter; the private gardeners are becoming more interested in the club and every meeting adds two or more new members; the list of associate members is also swelling fast. J.

REMOVAL.

BURNS & RAYNOR,

Wholesale Florists,

HAVE REMOVED TO

49 West 28th Street, NEW YORK,

where they will have larger store space and better facilities for their rapidly increasing business. Their method of **Shipping Roses** has given them a large out of town trade and for good flowers, especially **Beauties** and **large Mums** the above address is **Recognized Headquarters.**

Please mention American Florist.

CUT SMILAX

Over ¼ acre solid beds. First-class quality, 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.

JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

Mention American Florist

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price list write for same.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.

JOHN C. BRUCKNER,
(Successor to E. J. HARMS),
WHOLESALE DEALER IN
CUT FLOWERS,
AND FLORISTS' SUPPLIES,
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.
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C. STRAUSS & Co.
GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
1122 PINE STREET,
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A complete line of Wire Designs.
Mention American Florist.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

CUT FLOWERS.
The Western Trade Solicited.
Write or Telegraph.
SMITH FLORAL CO.
77 7th Street S. Minneapolis, Minn.

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S PENNOCK.)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

Wholesale Markets.

Cut Flowers.

	BOSTON, Dec. 1.
Roses, Bon Silene, Gontier	2 00
" Niphetos, Perles, Sunsets	3.00@ 4.00
" Mermets, Bride	6.00
" Beauty	25.00@ 35.00
Carnations	1 50@ 2.00
Valley	6 00
Romans, Narcissus	4 00
Violets	1.00
Callas	12.00
Adiantums	1.00
Smilax	12.00
Chrysanthemums, best	17.00
" common, per bunch	.35@ .50
	NEW YORK, Dec. 1.
Roses, Bon Silene	1.00@ 2.00
" Gontiers	2 00@ 3 00
" Niphetos, Perle	3 00@ 4 00
" Cusin, Watteviles	4 00@ 5 00
" Mermet, Bride	4 00@ 5.00
" Waban	3 00@ 5.00
" Woottons	2 00@ 3 00
" Hoste	3 00@ 4 00
" Beauties, best	50 00
" " average	25.00
Carnations	1.00
Lily of the Valley	6.00
Violets	2 00
" single	.75
Chrysanthemums, specimen flowers	15.00@20 00
ordinary	5.00@10.00
Harrisii Lilies	25 00
Roman hyacinths	6.00
Smilax	12 00
Adiantums	1.00
	PHILADELPHIA, Dec. 1.
Roses, Beauties	20.00@25 00
" La France, Albany	5.00@ 6 00
" Mermets, Brides, Guillots	5.00
" Bennetts, Dukes, Hoste	5.00
" Cusins, Watteville	4.00@ 5.00
" Perles, Niphetos, Gontiers	3.00@ 4.00
Valley	6 00@ 7.00
Carnations	1 00@ 1.25
Bouvardia, mignonette	1.00@ 1.50
Romans	4 00
Smilax	15.00@20 00
	CHICAGO, Dec. 1.
Roses, Am. Beauties	20.00@25 00
" Perle, Niphetos	5 00@ 6 00
" Gontiers	3.00@ 4 00
" Mermets, La France	5 00@ 7 00
" Brides, Albany	6.00@ 8.00
" Bennetts, Woottons	5 00@ 7.00
" Bon Silenes	2 50@ 3.00
Carnations, long	1.50@ 2.00
Carnations, short	1.00@ 1 25
Smilax	15 00@18.00
Violets	1 00@ 2 00
Roman hyacinths	6.00
Valley	8 00

Peck & Sutherland,
Successors to W. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
A large stock of ROSES, LILY of the VALLEY, VIOLETS, CARNATIONS, ASPARAGUS, HYACINTHS and other Standard flowers
FOR THE HOLIDAYS.
HOLLY AND MISTLETOE, of the best quality, by the Case or in large quantities at low prices.
CALDWELL'S LONG NEEDLE PINES, PALM LEAVES, MAGNOLIA BRANCHES, ETC., CONSTANTLY ON HAND.
PECK & SUTHERLAND,
67 Bromfield St., BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

EDWARD C. HORAN,
Wholesale Florist
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
—— ALSO ——
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

THOS. YOUNG, Jr.
Wholesale Florist
20 West 24th Street, NEW YORK.
CHRYSANTHEMUMS.
Specimen Blooms of the finest Prize varieties, carefully packed.
LILY OF THE VALLEY, and the Choicest ROSES for the fall and winter season.
Mention American Florist.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST
32 West 30th Street,
NEW YORK.
ROSES SHIPPED TO ALL POINTS.
Price List on Application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER 13th and Chestnut Sts.
PHILADELPHIA.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

CARNATION BLOOMS.
IN FANCY COLORS—LONG STEMS.
I solicit standing orders from florists and others throughout the country, as I make a specialty of shipping them long distances safely by express.
WANTED! 50 plants or more of Scented Geranium London Blue. Mail sample plant or foliage with price, to the undersigned.
CHAS. T. STARR, Florist, Avondale, Chester Co., Pa.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.



J M HARRIS

MR. J. M. HARRIS, whose portrait appears above, was well known in the American seed trade for many years, the result of almost a quarter of a century of faithful service with J. M. Thorburn & Co. Always courteous he had the univeral esteem of all who came in contact with him either in commercial or social life. Both Mrs. Harris and himself carry with them to England—their new home—the best wishes of many friends on this side of the Atlantic.

Philadelphia.

Below is an extract from a private letter dated Philadelphia, Nov. 22, '91:

"I think the outlook for a good trade or season in the seed trade is quite flattering. A few seedsmen seem inclined to make prices in their wholesale list below what they should be for good seed, but the best informed seem to think their seeds will be wanted at fair prices. Most of the heads of the seed houses in this city seem to be hard at work on their catalogues that will shortly appear. Mr. Maule seems to have the work of four or five men, as his head man on the *Practical Farmer* is sick and unable to attend to any business, and with the work of preparing matter for a weekly paper and all the correspondence attending it, and getting out a nice catalogue, I see plenty to do. But I would not wonder if his Prizetaker onion was a few pounds heavier than we have ever seen one, for the *Practical Farmer* keeps talking to us on that line.

"Mr. Burpee is also very busy on his new catalogue, but there is an unusual calm, happy exterior to his manner, as though he was going to surprise us all by some great novelty within the next few months. C. C. M."

PHILADELPHIA.—Mr. H. F. Michell, until lately with Henry A. Dreer, has purchased the seed business of Wm. H. Smith at 1018 Market street and will continue the same.

News Notes.

COLORADO SPRINGS, COLO.—J. E. Miller has sold his greenhouses to Mrs. N. H. Roe, who will continue the business.

HALIFAX, MASS.—G. A. Parker, gardener for the Old Colony Railroad, whose greenhouses were destroyed by fire last winter, is just rebuilding. Four new houses are nearly completed.

SAN FRANCISCO.—At the recent meeting of the California State Horticultural Society officers were elected as follows: President, E. W. Hilgard; Vice-President, S. J. Stabler; Secretary, E. J. Wickson; Treasurer, A. T. Perkins; Directors—Leonard Coates, E. M. Ehrhorn, Howard Overacker, E. E. Smith, A. L. Bancroft.

PITTSBURG.—Mr. Henry Phipps, Jr., has offered to build for the city of Pittsburg a conservatory in Schenley Park at a cost of $100,000. The offer is not coupled with any conditions. Mr. Phipps is further quoted as saying that the conservatory will be the most magnificent structure of the kind in the country if it takes double the amount named to make it so. Mr. Phipps is the gentleman to whose generosity Allegheny City owes its splendid conservatory.

Fires.

The greenhouses of Kingsbury Bros., at Raymond, N. H.; loss $1,400; no insurance.

The greenhouses off Granite Avenue, Milton, Mass., owned by James McGovern; loss $1,500; insured.

The greenhouses of Frederick Dellert, at Great Barrington, Mass.; loss $700, with but slight insurance.

BOSTON, DEC. 1.—The flower-pot manufactory of A. H. Hews & Co. has been destroyed by fire. Loss, $45,000; insurance, $25,000.

HOLIDAY BASKETS,
Holly, Green,
MISTLETOE.
Immortelles, Violet Foil, Fancy Boxes, and all Florists' Supplies furnished by
AUGUST ROLKER & SONS, NEW YORK,
136 & 138 W. 24th Street, or Station E.

CARNATION GROWERS.
Send your names and addresses to the undersigned and the list will be printed as soon as possible and advertised in this paper at a low figure.
EDW. SWAYNE,
KENNETT SQUARE, PA.

LILIUM HARRISII.
Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

THE
American Carnation Society.
ORGANIZED 1891.
Annual meeting, Buffalo, N. Y., Third Tuesday in February, 1892.
DEVOTED TO THE IMPROVEMENT OF THE CARNATION.
ANNUAL MEMBERSHIP FEE, $2.00.
Send your name and address to
C. J. PENNOCK, SEC'Y,
Kennett Square, Chester Co., Pa.
And remit Postal Note for $2 00 to
C. W. WARD, TREAS.,
East Moriches, N. Y.

CARNATION
GOLDEN TRIUMPH.
A Seedling of 1888. Makes a fine plant and gives beautiful flowers.
Also a pink Carnation named "DORINDA," a seedling of 1888—one of the best.
Catalogue will be ready Dec. 10, '91. Send for it.
R. T. LOMBARD,
WAYLAND, MASS.

ROOTED CUTTINGS OF
CARNATIONS
Nice, healthy Rooted Cuttings of Carnations of all the leading and newer sorts, in any quantity after Dec. 10th. Orders received for future delivery at 10 per cent. discount from price list. Correspondence solicited.
JOSEPH RENARD, Unionville, Chester Co., Pa.

CARNATIONS
NEW VARIETIES,
STANDARD VARIETIES,
NOVELTIES.
Send for price list of Rooted Cuttings to
GEO. HANCOCK, Grand Haven, Mich.

ORCHIDS.
THE FINEST STOCK IN THE WORLD.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Palms and Dracaenas.
The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10 00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each.
DRACÆNA INDIVISA VEITCHII,
DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.
W. J. HESSER, Plattsmouth, Neb.

ROOTED CUTTINGS
PETUNIA.
Double Fringed.
5 best sorts, by mail $1.00 per hundred; by express, $8.00 per 1000.
VERBENA—Mammoth.
15 sorts, by mail, 65c. per 100; by express, $5.00 per 1000.
CASH WITH ORDER.
S. O. STREBY,
Lock Box 77. UPPER SANDUSKY, OHIO.

WHY You Should Grow Mushrooms.
Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.
During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.
Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or outhouses, in the open field or in mushroom houses.

HOW You Should Grow Mushrooms.



First get spawn that will grow. It must be fresh, well spawned, and in good condition. **Gardiner's Celebrated English Mushroom Spawn** is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, **"Mushrooms for the Million,"** Mailed free. **Falconer's "Mushrooms and How to Grow Them."** Published at $1.50. (Gardiner's price $1 35 post free.) **Robinson's "Mushroom Culture,"** 50 cts. postpaid.

GARDINER'S ENGLISH MUSHROOM SPAWN.

John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, $8.00 per 100 lbs. Special rates to large growers. Address all correspondence to **21 North Thirteenth Street,** Philadelphia, Pa.

JOHN GARDINER & CO.

Lily OF THE Valley

BERLIN PIPS of first quality now ready, $8.00 per 1000.

AZALEAS for forcing, fine plants, $40.00 to $70.00 per 100.

L. AURATUM, LONGIFLORUM, HARRISII, Etc. on hand now.

Any florist who grows **SWEET PEAS** and does not grow **Blanche Ferry,** does not know its value. Because it is the best of all. This is the third year we have sold it, and everybody likes it. $1.00 per lb. by mail.

V. H. Hallock & Son,

QUEENS, N. Y.

Mention American Florist.

LILY OF THE VALLEY PIPS.

100,000 Berlin, extra selected quality, offered for sale, to arrive in quantities per case to suit, at $9.00 per 1000.

Special prices to the trade, as to quantity.

C. C. ABEL & CO., New York.

KAE SHEAN CO.,

Growers of CHINESE SACRED LILY,

HONG KONG.

Goods can be obtained at the following houses:
John L. Childs.....Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R Pierson.....Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

PANCRATIUM CARIBBAEUM.

(The Great Spider Lily.)



This was one of the best selling novelties last season, and not only sold, but gave **SATISFACTION** to the purchasers. Thousands of bulbs have bloomed freely in all parts of the country. Every **LIVE FLORIST** will catalogue it this season, and to meet the popular demand we have secured 250,000 bulbs of blooming size.

We offer these at $3.00 per 100; $22.50 per 1000, packed and delivered f. o. b.

We also have a few bulbs of the **CRINUM NOBILE** that great average over 2 lbs. weight, at $35 per 100, and some fine **CRINUM AMERICANUM** at $7 per 100. These bulbs are all first quality and size. Order now, and be in time to insure your supply.

THE AMERICAN EXOTIC NURSERIES,

R. D. HOYT, Manager, SEVEN OAKS, FLORIDA.

C. H. JOOSTEN, IMPORTER, 3 Coenties Slip, NEW YORK.

ORDERS NOW BOOKED FOR FALL OR SPRING IMPORTATION FOR

HARDY ROSES, CLEMATIS, AZALEAS, ETC. from the Boskoop, Holland, Nursery Association.

Also NURSERY AND FRUIT TREE STOCKS from LENAULT HUET, USSY, FRANCE.

Catalogues on application. **C. H. JOOSTEN.**

Every Florist! Every Nurseryman! Every Seedsman!

SHOULD HAVE OUR TRADE **DIRECTORY.**

Address **AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.**

JUST ARRIVED!

LILY of the VALLEY

Prime 3 year old Hamburg Pips, $10.00 per 1000; $1.25 per 100; in case lots of 3000 $9 00 per 1000; in lots of 10,000 and upwards, $8 50 per 1000, to close out.

10,000 Paper White Narc. Grandi.

The true large flowering variety, extra size bulbs, $8.00 per 1000; $1.00 per 100.

Immortelles.

Fine French purple, cherry red (open or berry) or assorted colors, $26.00 per 100 bunches; 30 cts. each.

Cape Flowers.

Large and white, short stemmed, 50 cts. per lb.; in case lots, 45 cts. per lb.; choice white, long stemmed, $7 00 per 10,000; 75 cts. per 1000; assorted colors, long stemmed, $1.00 per lb.

Pampas Plumes.

24 inches and up, natural..... $ 6 per 100; $ 1 per doz.
24 inches and up, asst. colors... 10 " 1.50 "
Other Ornamental Grasses in various colors, 50c. lb.

A full line of **Porcelain and Metal Wreaths, Crosses, Etc.,** at lowest prices. Satisfaction guaranteed if selection is left to me for any stated amount For other supplies for the HOLIDAYS, see Catalogue. Terms Cash.

Address **J. A. DE VEER,**
154 East 34th St., New York.

Mention American Florist.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN. CONN.

Cycas Revoluta.

EXTRA FINE STEMS, ROOTS AND FRONDS CUT OFF.

VERY BEST LONG LEAVED VARIETY,

from 6 inches to 6 feet, per lb. 10c.
Discount on large orders.

CYCAS CIRCINALIS by January, '92. Price on application. **MYRICA RUBRA SEED.**

Rhapis flabelliformis, 25c. to 45c. per shoot.

FELIX GONZALEZ & CO.,
303 to 312 Wayne Street, **SAN FRANCISCO, CAL.**
Mention American Florist.

VALLEY PIPS, - - $10 per 1000
TUBEROSES, new crop, 10 "
DIELYTRA spectabilis, 5 per 100
PAEONIES, colors separate, 12 "

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO.

Clematis. Roses.

H. P. and Monthly, both pot and outdoor grown, good assortment, own roots, fine plants.

CLEMATIS, fine, well grown plants in choice assortment. Plenty of Jackmanii.
Prices very low, on application.

F. A. BALLER, BLOOMINGTON, ILL

The New Boy.

The new boy had just graduated from school, and while the men on the place all held the same opinion as to his general worthlessness for manual labor, yet they all from the foreman down entertained a wholesome respect for his literary attainments and his superiority in "book larnin'" was meekly conceded. In the completion of his education, however, the current yellow-backed literature had been a considerable factor.

One day while a big agave was being moved, one of the large, fleshy leaves being accidentally broken, recalled to the new boy the wonderful virtues of the agave as described in his favorite dime novel, where the leaves were represented as furnishing delicious sustenance to the thirsty Indian hunter in the desert. Here was a chance to test its qualities. He kindly took the rest of the men into his confidence, and when lunch time arrived the big leaf was carefully peeled and the succulent center cut into nice slices, and distributed with much condescension among the crowd as an appetizer before dinner.

Not much dinner was eaten that day. Neither did the wrath against the new boy break out in blasphemous abuse, for all were too busy nursing swollen mouths and struggling for the possession of the nozzle end of the hose.

PALMS and FERNS

Well grown Specimen Plants, fit for immediate use.

		Each.
KENTIA,	3 to 3½ ft. high, 6-inch pots, 7 to 8 leaves	$2.50
do	2 to 2½ ft. high, 5-inch pots, 5 to 6 leaves	1.50
do	1½ to 2 ft. high, 4-inch pots, 3 to 4 leaves	1.00
COCOS WED.	2 to 2½ ft. high, 6 to 8 leaves	2.00
LATANIA BOR.	2½ feet high, 6 to 8 leaves	1.00
PANDANUS VEITCHII,	2 to 2½ ft. 6-in. pots	2.00

FERNS—Well grown plants in 3 in. pots, for fern dishes, etc., in following varieties:

Pteris Hastata, Sieboldi, Cretica and Alba Lineata, Davallia Stricta and Fijiensis, Lastrea Leptophyllum, Polypodium, Blechnum and Polystichum, assorted, at $10.00 per 100.

E. W. WEIMAR, Mt. Vernon, N. Y.

Mention American Florist.

Two Superb Plants.

ANTHURIUM SCHERTZERIANUM (Flamingo Flower.)

A grand scarlet flower of great substance and durability; when cut will last for weeks; long stems, grown easily as a calla. Two year old seedlings from one of the finest varieties in Europe, will bloom this winter.

3 -inch pots, Dozen, $6; 100, $40.
Extra strong plants, $1 to $50 each.

ASPARAGUS PLUMOSUS NANUS.

This elegant plant has no rival for cutting. Strong, in 3½ inch pots, per 100 $40.00.

12 HANDSOME PLANTS for DECORATION at ONCE, $6:

ARECAS, COCOS, DRACÆNAS, ASPIDISTRA, Etc., Etc.

In 5 & 6-inch pots, 1 to 2½ feet, according to sort. F. O. B. same day as order received.

JOHN H. LEY,
TROPICAL NURSERIES,
ANACOSTIA, WASHINGTON, D. C.

Stock Plants of Chrysanthemums

JESSICA once more to the front. Those that had it, wished they had grown more. Those that had none, wished they had it.

NOW IS THE TIME TO ORDER STOCK PLANTS.

WE OFFER STOCK PLANTS OF:

JESSICA, 25 cents each.

ROHALLION, the grand new early yellow, 25 cts.

MRS. GERARD, the earliest large pink, 25 cts. The best flowers of this variety wholesaled at 50 cts. each in the New York market.

These three varieties have now flowered and are ready for shipment. All other commercial varieties on hand and ready as soon as flowers are cut.

ORDERS FILLED IN ROTATION. DO NOT DELAY ORDERING IF YOU WANT THESE VARIETIES AS STOCK IS LIMITED.

THE OAKLAND ROSE NURSERIES,
Bay Side, L. I., N. Y.



"VAUGHAN'S CREAM OF THE SHOWS" CHRYSANTHEMUMS
COMPLETE STOCK
EVERY VARIETY SOLD ON ITS MERITS.

[GREENHOUSES: WESTERN SPRINGS.] **J. C. VAUGHAN, Box 688, CHICAGO.**

SWEET PEA SEED. NEW CROP. FINEST EVER GROWN.

WHOLESALE.

1890—VARIETIES.

1 to 100	pounds	Orange Prince
"	"	Princess of Wales
"	"	Isa Eckford
"	"	Crown Princess of Prussia
"	"	Boreatton
" 10	"	Cardinal
" 100	"	The Queen
"	"	Duchess of Edingburgh
"	"	Butterfly
"	"	Nellie Jaynes
"	"	Alba Magnifica
"	"	Fairy Queen
" 500	"	Mixed

1891—NOVELTIES.

1 to 20	pounds	Splendor
"	"	Apple Blossom
" 5	"	Captain of Blues
"	"	Queen of England
"	"	Delight
"	"	Mrs Gladstone
"	"	Purple Prince
"	"	Primrose
"	"	Mrs. Sankey
" 10	"	Mixed

Write for prices. True to name. Splendidly matured. Contracts for future delivery. Send for sample of seed

SHERWOOD HALL NURSERIES, MENLO PARK, San Mateo Co., CALIFORNIA.

TRY **DREER'S GARDEN SEEDS**

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

Jessica in the Lead.

This white variety was recommended by Mr. J. N. May, Summit, N. J., last year. This Chrysanthemum I grew this fall, and cut my first blooms Oct. 2, they being from 6 to 8 inches across. Also an immense stock of Gloriosum and L. Canning.

$2 a dozen; $15 a hundred.

ROBT. LUEPKE, E. Liverpool, Ohio.

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WHOLESALE * FLORIST,
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ROSES AND PALMS A SPECIALTY.

PANSIES ONLY.

The Greatest Collection ever offered, including all the Latest Novelties. Our Seed is Warranted to be Fresh, Pure and Strictly First-class. Send for new circular and price list to the trade.

ALBERT BENZ, Douglaston, N. Y.

E. G. HILL & CO.,
Wholesale Florists,
RICHMOND, INDIANA.

ORCHID FIBRE.

I beg to call the attention of orchid growers to a choice lot of orchid fibre, which without doubt is the best and cleanest quality in the market. Send for sample. Address

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Thursday, December 10th,

GREAT TRADE SALE OF

IMPORTED ORCHIDS!

FROM SANDER, ST. ALBANS, ENGLAND.

1,500 CATTLEYA LABIATA, true old Autumn Flowering variety. The Florist's Cattleya.

300 Splendid plants of a GIANT CATTLEYA with gigantic bulbs. Enormous flowers and spikes.

1,000 DENDROBIUM PHALÆNOPSIS SCHRODERIANUM, in splendid condition. **The Elephant Moth Dendrobe.** Flowers as large as Phalænopsis amabilis, 15 to 25 produced on a spike 2 feet long, and a **most valuable Orchid for the Florist.**

300 DENDROBIUM McCARTHIÆ in superb condition.

Several wonderful EPIDENDRUMS and a CATTLEYA from the old Labiata district. The above will be sold without reserve, and lotted to suit all buyers, by

R. B. YOUNG & CO., AUCTIONEERS,

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On Thursday next, December 10th, at 11 A. M.; from whom Catalogues may be had on application.

You Can't Afford to do Without the

SNOWFLAKE DAISY

DON'T depend on us for the cut flowers, every flower we can cut is sold now, and as many more if we could get them; there is and will be a pressing demand for this inimitable flower; a few hundred pot plants still on hand, 3-inch, $5 00; 2-inch, $3 00 per 100 **5,000** clean, thrifty plants in flats, coming into bud and blooming, $2 50 per 100; $20.00 per 1000, (no more clumps). 1000 Bouvardia Davidsoni, 200 Mrs. Cleveland, (crimson), 200 Multiflora Pinks, $2 00 per 100. Variegated Vincas, field grown, 5 to 10 vines, 4 feet, $6.00 per 100; 3 to 5 vines, $4 00 per 100. Eulalia Zebrina and Japonica, fine stock, first size $10 00; 2d size $8 00 per 100. Chrysanthemums, finest vars., 4-inch, $1.50, 6-inch, $2, 7-inch, $3, 8-inch, $5 per doz.; also **Cut Blooms** at 40-50c. per 100, all colors. Early flowering Moonvines, 2-in, $3 per 100. No risk, satisfaction guaranteed or money refunded.

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ADIANTUM CUNEATUM.
ADIANTUM PUBESCENS.

Splendid plants, in 2-inch pots, $4.00 per 100; $35.00 per 1000.
Six good varieties, in 3-inch pots, $6.00 per 100; $55.00 per 1000.

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HYDRANGEA THOS. HOGG

Strong two year old Plants for Forcing,
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Smilax, 6 to 7 feet, ready now, 18 cts. per string. Cyclamen persicum, 4-in., budding, per doz. $1.50. Vincas, green and variegated, per 100, $1.00.

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THE LARGE WHITE FLOWERING VARIETY.

Orders are now booked for fall delivery. Having the largest home-grown stock in the world, and in splendid condition, I can do them well. Last year the large size produced over seventy flowers. For several years they have given the greatest satisfaction to my customers.

Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
2nd size	14.00	"	115.00	"
3rd size	10.00	"	72.00	"
4th size	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000).	2.50	"	23.00	"

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TUBEROUS BEGONIAS.

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QUALITY UNEQUALED.

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TUBERS EXTRA LARGE THIS SEASON.

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25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
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2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other

PLANTS FOR FORCING AND DECORATING.

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Tuberous Begonias.

Splendid strain, extra fine habit, perfect flowers, unrivaled for variety and brilliancy of colors.

TUBERS, per 100, 1000, or 10,000, offered by

ZOCHER & CO., Haarlem, Holland.

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Vaporizing Tobacco.

In answer to J. W. Ellis as to whether tobacco can be successfully vaporized on the ordinary 4-inch hot water pipes, I can say yes. Pour boiling (not merely hot) water over a lot of tobacco stems in a barrel, and allow them to stand at least twelve hours before using. Use ten evaporating pans, fitted to the 4-inch pipes, to a 100-foot house, keeping them filled with the tobacco liquor. This will keep the house free from green-fly as long as heavy firing continues, but does not answer as well either early in the fall or late in the spring, when firing is light.

I have often thought that the following would answer in the latter case: Take an ordinary low (short-legged) gasoline stove with two or three burners; have a large, shallow, flat-bottomed vessel to place on the stove, fill with the tobacco liquor, start the burners, and you can vaporize the liquor as slow or as fast as desired by adjusting the burners. And by having a tight-fitting cover, sulphur fumes could be produced in any volume desired without fear of burning, by placing some flour of sulphur on the lid. Such a stove could be placed in the walk at any point, and it could be moved from place to place. This method of applying sulphur would, I believe, be of great benefit in the early fall for the prevention of mildew, and in the spring help to keep the spider in check without having to overheat the sulphur-painted pipes in order to obtain the desired result.

College Hill, O. JOHN WILSON.

THE AMERICAN FLORIST CO.

WILL PUBLISH A CORRECTED EDITION OF THE

DIRECTORY

OF FLORISTS, NURSERYMEN AND SEEDSMEN

of the United States and Canada

FOR 1892

ABOUT JANUARY 1, NEXT.

We shall cover the whole country by correspondence and compile an entirely new list, which will be as nearly correct up to date as it can possibly be made. But in addition to this we invite corrections from anyone in the trade.

As usual, we shall devote some of the pages to advertisements. Rates given on application. The price of the new book will be $2.00.

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Wild Smilax, Pines and Palms,

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What can make better and more beautiful Decorations for the Holidays, and in fact all winter, than Palm Leaves, and Crowns of the whole plant? They are being used more freely each year. We can supply unlimited quantities of perfect ones at the LOWEST RATES. Order early so your supply can go by freight. We can please you.

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DWARF PALM CROWNS, each perfect as a $10 Latania, well furnished with 6 to 10 leaves, only **$25 per 100** f. o. b. (Not less than 10 at this rate).

Try a few and you will not regret it. As they will keep for weeks and even months, by simply placing in vase, or potting, they resemble closely a tender exotic. Also remember we are Headquarters for **Spider Lilies, Butterfly Orchids, Crinums, Canna flaccida, Tillandsias, Etc., Etc.** Send for Catalogue.

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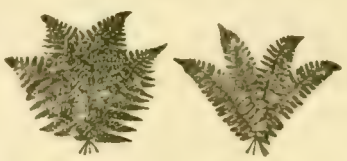
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EVERGREEN WREATHING. In three grades. If you need wreathing, and need it promptly, wire us. We carry 50,000 yards in stock to fill such orders. Try us on prices. Quality O. K.

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3,000,000 EVERGREEN CUT FERNS NOW READY.

Special attention paid to supplying the wholesale trade.

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SPHAGNUM MOSS. Long, clean fibre, hand sorted, DRY or GREEN, $1.00 per barrel; 6 barrels, $5.00. 20 barrels, $15.00. BOUQUET EVERGREENS, $2.00 per barrel.

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LAUREL AND EVERGREEN FESTOONING.

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Balsam and Spruce, first-class forest grown, f. o. b. here, 4 to 5 ft. 10c; 5 to 6 ft. 14c; 6 ft. 18c; 7 ft. 25c; 8 ft. 30c; 10 ft. 50c; 12 ft. 65c; 14 ft. select, $1; 16 ft. $1.50; 18 ft. $2. 5 per cent off 100, 10 per cent off 200 tree lots if ordered by Dec. 1st. Bouquet Green, $5 per 100 lbs. Wreathing, light $3, medium $4, heavy $5 per 100 yds. 10 per ct. off 500 yds. and more. Holly, bbl. $2.25. Long Needle Pines, 35c. Chamærops Palm Leaves, $4 per 100. Chamærops Crowns, large, 75c; small, 35c. Wild Smilax $3.50 per bbl.; $7 per case. Fern leaves $1.50 per 1000. A full line of other Decorative goods. Send for a complete list and telegraph code. Quick shipping facilities; four through roads. Also Sphagnum Moss, large bales, $1.50. Rotted Peat $1 per bbl. Terms cash with order or bank reference. Note, this ad. only appears every other week.

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Well wound, of fresh stock.

LIGHT GRADE.....$3.00 per 100 yards
MEDIUM HEAVY..... 3.50 " "
EXTRA HEAVY..... 5.00 " "

Larger lots at special prices.

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25 lbs. $1.50; 50 lbs. $2.25; 100 lbs. $4.

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The best Xmas Cemetery Decoration.

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STRONG EASELS for above, nicely bronzed, furnished at 20, 25, 35 and 40 cts. each net.

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By giving them a Complete Stock of

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you know all about it, but do you? The use of LONG'S FLORAL PHOTOGRAPHS while taking orders of your customers will do more for you over and again than you might think. A trial is convincing to any enterprising florist. Circular list with prices, free.

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Mildewed.

BRIGHTMAN—Good morning, Lightman; are you going with the boys to see the Flowertown exhibition?

LIGHTMAN—Am I going? Well, I should say not. I've got something to do besides run round to exhibitions. It's all right for you rich chaps to go kiting round the country. I stay at home and attend to my business.

BRIGHTMAN—Yes, I know; but a couple of days off will brighten you up and when you come back you can attend to your business just so much the better, for you will have learned something. For my part I can say that I have never gone off to attend an exhibition or to take a look through the establishments in other places without feeling afterwards that I was well repaid for the trouble and expense.

LIGHTMAN—All right; if you need to learn something you go on. I know enough to look out for my own business, and don't want any assistance or advice from any of these fellows. I learnt my business before half of them knew the difference between a geranium and an apple tree.

And then he lit his pipe and went off to put another prop under the rotten rafters, while the hired boy decorated the windows by stuffing a handful of scarlet geraniums and measly looking pink roses into a blue hyacinth glass that hadn't been cleaned for a month, and hung up the smilax with the wrong end in the water.

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A general assortment of **Fruit Tree Stocks** such as **Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc.** The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada:
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Their work in this journal speaks for itself
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STANDARD FLOWER POTS
AND
JARDINIERES IN GREAT VARIETY.

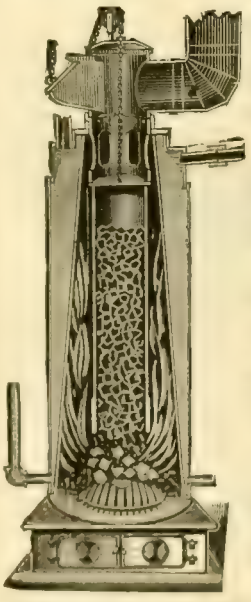


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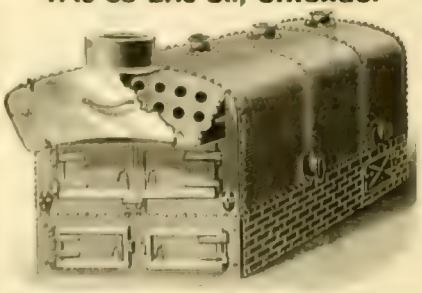
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Another Saving in Freight.
Not only are our pots lighter in weight and yet as strong as any other pot on the market, but our way of packing for shipping will cause you to pay for the smallest dead weight possible. These two items we claim will save you one third in freight charges. To prove this will send circulars, showing number of pots in crate and weight of same, with freight rate per 100 pounds to any point.
SIPPLE, DOPFFEL & CO., Syracuse, N. Y.



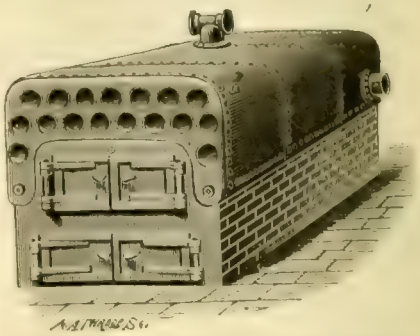
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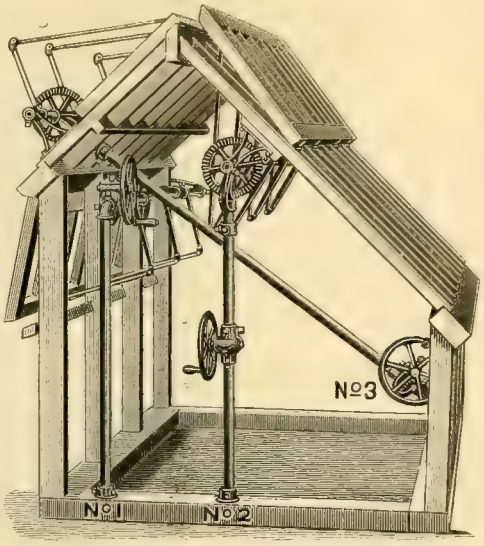
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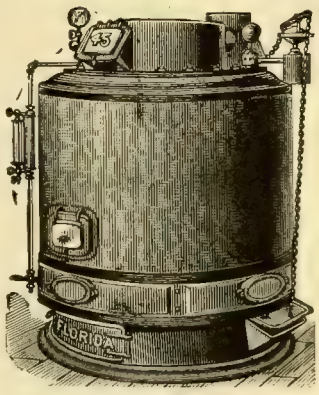
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FLORIDA STEAM AND HOT WATER HEATERS

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Made in 38 Sizes for Steam; Made in 33 Sizes for Hot-Water.

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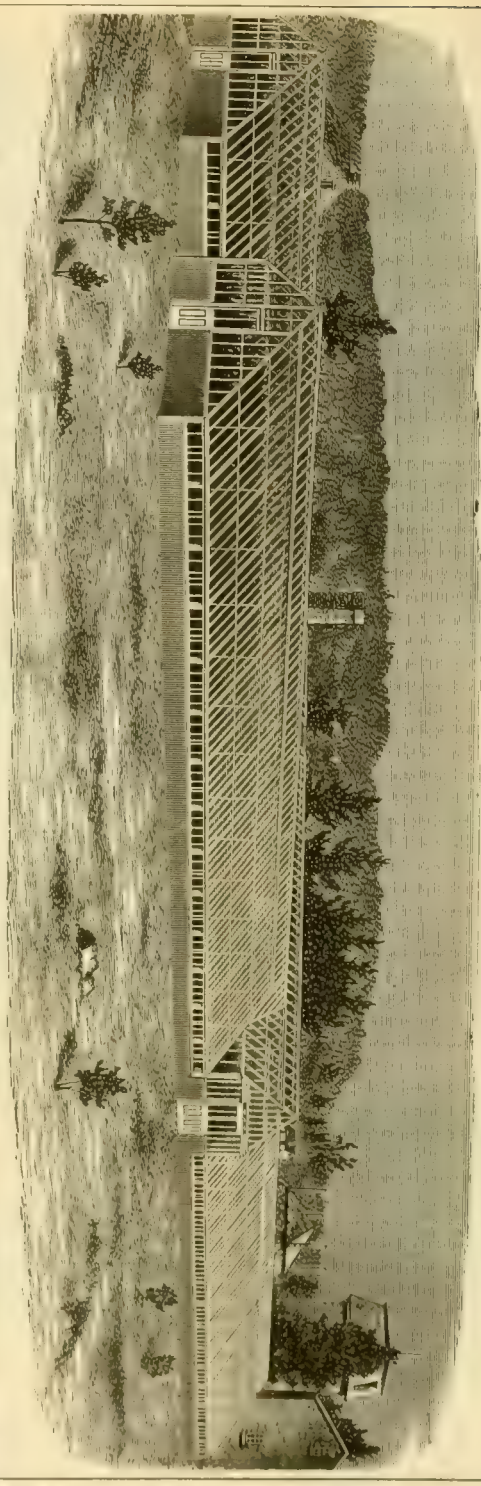
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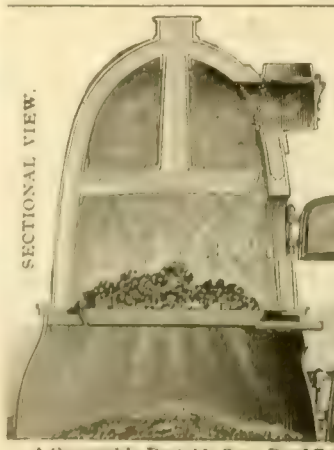


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THE AMERICAN FLORIST



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Vol. VII. **CHICAGO AND NEW YORK, DECEMBER 10, 1891.** **No. 184**

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SOCIETY OF AMERICAN FLORISTS.
JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

AMERICAN CARNATION SOCIETY.
EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., president; C. J. Pennock, Kennett Square, Pa., secretary. First annual meeting and exhibition at Buffalo, N. Y., February 16, 1892.

FLORISTS' PROTECTIVE ASSOCIATION.
Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BEATTY, Sec'y, Oil City, Pa.

AMERICAN CHRYSANTHEMUM SOCIETY.
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Insures greenhouses against damage by hail. JOHN G. ESLER, Secretary, Saddle River, N. J.

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Now is the time to consider the matter of holiday prices. The prices we should seek to quote are those that will sell every flower and at the same time bring in every dollar possible. To establish such prices necessitates an intelligent review of past experience and careful estimates of possible supply and demand at the coming holiday season. Do your thinking on this matter now. Not after Jan. 1.

Chrysanthemum Shows.

Echoes from the New York Show.

The flat flower stand boards on which the sets of one bloom of a kind are usually shown must go. No matter how big and broad and bright the blossoms were that rested on them, the arrangement is ugly and meaningless and the flowers are shorn of their beauty. Mr. E. A. Wood came from Boston with 50 flowers that had long stems and fine foliage and stuck them into small vases, one flower in each vase, and secured the first premium. And all the praise and admiration by the public were bestowed on the long and leafy stemmed flowers in vases and not on the bare-headed blossoms lying on the flat green boards. Away with them, and keep them away! That these decapitated flowers keep longer in good condition than long stemmed ones is no excuse for clinging to the barbarous practice—away with it!

Fashion has set its face against bunches of old-time artemisias, single flowers are now grown large enough to be an ample corsage in themselves, big globular or whirligig with a stem like a walking stick and foliage fat and fresh as spinach in spring.

Anemones of all kinds, and Chinese and pompones are losing ground, and the Japanese are the reigning favorites. Oftentimes the Chinese have splendid blossoms, but where is the 2-feet leafy stems? And the singles have almost disappeared from among us, and no one is weeping.

Every plant and cut flower exhibited should be conspicuously and legibly labelled; the tyro and the expert want to see the name. Labels stuck into the pots, or pencil-marked bits of paper thrust halfway down the throats of the bottles are not legitimate naming in a public exhibition where the rule is "don't touch the plants or flowers." White card labels hovering over the plants have a graveyardish or killing effect upon the exhibits. But Ernst Asmus had a capital label. It was a neat black card with the name of the flower printed on it in gilt letters; everybody admired it and anybody could read it at a glance. And these card-labels will keep forever and are as available in coming years as they were this season.

One single variety was shown as a pot plant. No pompones of any kind were exhibited. Eve, Flora Macdonald, Mme. P. S. Blanchard, Mandus, Dr. Sharp, Mrs. Heale, Princess of Wales, and Amie Hoste, were the best and most of the Chinese sorts. The last named looked a little out of place, but Mr. Tricker insists it is where it belongs. Souvenir de L'Ardene, Fabian de Medina, Thorpe Jr., Mme. R. Owen, Mme. Cabrol, and C. Jukes supplied the anemone flowers. Japanese were legion.

New plants consisted of variegated Ficus elastica, Heliconia aureo-striata, Phrynium variegatum, Zingiber D'Arcyi, Alocasia Laselliana, A. regina and A. Luciani. A yellowish ("golden" I ought to say) leaved form of Livistona chinensis was shown, but its color is too suggestive of sickness to be desirable. There was also a variegated-leaved variety of this species of palm in which some of the leaves were streaked with pure white.

Among Dracænas Baptistii, amabilis, Smithiana, Massangeana, Lindeni, and Neo-Caledonica were among the most striking.

We see Pitcher Plants at every exhibition, but it is many a day, aye year, since we have seen anything in this line to compare with the magnificent specimens James Taplin used to treat us to 12 to 20 years ago from South Amboy, N. J.

Pteris Victoriæ the new variegated fern that has taken such a hold upon our florists was shown. Perhaps it is not generally known that our modest orchid and chrysanthemum man, I. Forsterman of Newtown, L. I., was the discoverer and introducer of this little beauty. It was in 1883 when he was collecting orchids in the Indian Archipelago for Sander he found this gem on a moist, open slope in Ta Tan, one of the Philippine islands, and thence sent it to England.

Griffin's tuberous begonias got a boom. In addition to large photographs showing them as they grew in the open field in summer, he kept up a liberal supply of cut flowers of them all the time. This class of plants has a future.

The exhibition altogether was an immense success, and the Florists' Club and Madison Square Garden Co. have worked earnestly and harmoniously together and to their mutual advantage. Our club is neither dead nor dying; on the contrary, we are waxing stronger in membership, prestige and confidence. But we have learned a mighty lesson—that while we can get up a splendid show, it takes, in this town, a showman to show the show.

WM. FALCONER.

Bay City, Mich.

The Bay County Horticultural Society, organized early this spring, held their first annual chrysanthemum show Nov. 16 to 21. It was scheduled for an earlier date, but owing to the lateness of the season was postponed as above.

Looking at it from all points of view it was an undoubted and unqualified success and the management are to be congratulated.

It was held in the spacious (now) Horticultural Hall leased by the society (formerly a rink) and was profusely decorated with bunting, evergreen wreathing, etc.

Both the professional and amateur classes were well filled. Among the latter was unusual good natured rivalry, as the

gratuitious distribution by the society of 50 sets of "mum" plants in the spring had set them all to working and thinking as to who would "put up" the best lot of plants. The price of "drugs" had gone up, one order for sulphate of ammonia alone being for 10 pounds. Some claimed they had never seen a "mum," and a "mum" show was unheard of; however, some plants would have done credit to the "profesh"; one standard which I shall nickname the "spider" was simply "out of sight."

Prof. Taft of the horticultural department of the Agricultural College, Lansing, Mich., acted as judge, and general satisfaction resulted. The one judge point system was in vogue here and proved a success and to be the only right way when there is anything like competition, and that close, as it happened in the open class for 100 blooms, 50 varieties, as will be seen by the following:

First, $150, was awarded to John Breitmeyer & Sons, Detroit, who staged a very bright and fresh lot of blooms, with Excellent, Kioto, H. E. Widener, W. W. Coles, Miss Minnie Wanamaker, Mrs. Irving Clark and Puritan to the front with an average of 90 points; second, $50, to Holznagle & Noel, Detroit, Mich., with a nice lot of blooms and an average of 87 4-10 points.; third, $25, to Fred Dorner, Lafayette, Ind., very close, average 86 1-10 points; the fourth averaging 85 5-10 points and the fifth and sixth following closely.

The question whether the prizes would have been awarded as they now stand if judging otherwise than by points had been adopted arises.

John Irvine & Co., Bay City, carried all before them in the competition for plants, being first for 10 plants, 10 varieties, with good specimens of W. H. Lincoln, Mrs. A. Hardy, Shasta, Louis Boehmer, Avalanche, etc., 10 specimen standards, 50 plants in not over 6-inch pots, with one bloom to a plant, a very creditable lot indeed, 6 plants 6 varieties, 4 plants 4 varieties, 25 plants in 25 varieties, specimen white, yellow, any color, and 4 plants in 4 colors. All above were well grown, well flowered and well furnished with leaves, a cardinal point in "mum" growing.

The above firm also carried off the following first prizes for cut flowers, with a nice fresh lot of blooms: Collection of 25 cut sprays one of a kind, 12 sprays 12 varieties (these sprays make a very showy and interesting class and should be adopted by other shows), 50 blooms one of a kind, best vase yellow, best vase any color, best vase 50 blooms. They also held first for best dinner table decoration, a very pretty arrangement of white "mums," maidenhair and favors of the white favorite, Miss Minnie Wanamaker.

Quite a sensation was caused by "honest" Geo. Vair of Toronto carrying off first for 25 cut blooms one of a kind. We'll have to annex you yet George.

Fred Dorner, Lafayette, Ind., was first for 12 blooms pink, all good flowers.

Pitcher & Manda, Short Hills, N. J., staged their collection of this year's seedlings, the most prominent of which were Harry May, W. A. Manda, the new yellow, hairy "mum," Ada McVicker, Annie Manda, W. S. Kimball, very pretty, Mrs. Hicks Arnold and others, all good form and erect stems. They also carried off the prize for best and largest bloom in the exhibition with Harry May, a grand incurved bronze, and the "Smith" prize offered by Nathan Smith & Sons, Adrian, for 12 best blooms any variety with the same.

In the amateur classes for plants T. J. Cooper, C. W. Hall, J. Pond, Dr. H. Gilbert and J. W. Miller, all of Bay City, came out with flying colors, while D. M. Baker, Adrian, swept all before him in the cut flower class.

In the special prizes for amateurs C. W. Hall, Bay City, took the "Henderson," the "Hunt" and "Spaulding," while the professional prize winners were John Irvine Co., "Dreer Prize," "Vick," "Smith" No. 1 and "Vaughan"; John Breitmeyer & Sons, Detroit, "Balsley Prize"; and Pitcher & Manda, Short Hills, N. J., "Thorpe" and "Smith" No. 2.

Nathan Smith & Sons, Adrian, Mich., displayed an excellent collection of cut blooms, as did also W. N. Rudd, Mount Greenwood, Chicago, Ill.

Visiting florists from a distance were Fred Breitmeyer, Frank Holznagel and John Noel, Detroit; Fred Dorner, Jr., Lafayette, Ind.; C. F. Johnson, Mount Greenwood, Chicago; Elmer D. Smith and J. W. Walker, Adrian, and Harry A. Bunyard, Short Hills, N. J., representing Pitcher & Manda.

The success of the show was greatly due to the untiring efforts of the president, John Irvine, T. J. Cooper and C. W. Hall respectively, secretary and treasurer.

THE DRUMMER BOY.

Galt, Ont.—Correction.

ED. AM. FLORIST:—A stranger reading your report of our exhibition would think that Mr. Langham had taken the three first and best premiums for chrysanthemum plants and this is incorrect. For best 12 plants G. Brown, gardener to Mr. Goldie, was first, J. W. Scott second and John Wells third. For 6 plants James Gardner, gardener to Mrs. Ball, was first, J. W. Scott second and D. McGeorge third. For 4 plants Mr. Langham was first, J. W. Scott second and A. Common third. And so on down to 1 plant.

JAMES W. SCOTT.

St. Louis.

There were some slight errors in your report of the St. Louis chrysanthemum show. The first prize for the largest single flower grown in St. Louis was awarded to John Armsby, gardener to J. W. Kauffman, and not to Harry Leeds as stated in your report.

There was also a special prize of $50, offered by Mr. J. W. Kauffman, that was not noted in your report. This was offered for best 50 chrysanthemums and was won by John Armsby. J. A.

Judging Chrysanthemums.

I, for one, am not altogether satisfied with the present system of judging new varieties, especially seedlings. I have seen many good things not countenanced and consequently discarded, simply for a want of a thorough knowledge of the varieties which are at present in commerce. Certainly an improvement in type, form, fullness, and color should be looked into separately and individually judged accordingly. B. S.

SECRETARIES of organizations giving exhibitions should keep on file a complete set of the premium lists issued by other organizations. They will be found exceedingly useful for reference. Send your own premium list and request an exchange.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Nepenthes Edinensis.

Nepenthes Edinensis is one of the best hybrid Pitcher Plants. The urn-like receptacle at the end of each leaf is large and well formed and of a pleasing color, light brown markings on a creamy ground somewhat after the pattern of the inner surface of the flowers of Aristolochia elegans. The parents of this handsome hybrid are old and well known kinds—Rafflesiana and Chelsonii. It was raised by Mr. Lindsay in the Botanic Garden, Edinburgh.

The culture of these curious plants is by no means so difficult as is generally supposed. Cuttings will root in sand and chopped sphagnum in an ordinary propagating case, the only requirements during the rooting process are heat and moisture in abundance. Sphagnum moss, fibrous peat and charcoal in equal proportions is the best mixture in which to grow them. The temperature may go above 100° F., but never less than 50°, with abundance of water at all times. If the plants are grown near the glass they should be slightly shaded from the hot sun and kept free from cooling draughts. The plant from which our illustration was taken is at the Botanic Garden in Washington, D. C., under the care of Mr. Geo. W. Oliver, who takes great interest in this class of plants.

Our Telephone.

"Hello! Is that Mr. James Dean, of Bay Ridge?"

"Yes; what's the matter now?"

"Oh, we just want to talk with you a few minutes."

"About having a business convention at Washington next August, I suppose. Now just let me tell you one thing: If you fellows ——"

"No, no. We see that the Philadelphia club poet has immortalized you on that matter and we'll let up on you for a time. We would like to hear something about your azaleas now. Are you into them as heavily as ever?"

"Yes, I have a big lot; nearly 10,000, I should think, and they are looking splendid. The earliest lot will be in bloom for Christmas and I shall have them right along after that in a succession till Easter, at which time, of course, I plan to have the great bulk of them come in."

"Do you grow any for cut flowers?"

"No; there's no demand for azalea flowers in New York. They use them to some extent in cheap work on the East side, but that is all."

"What color do you find sells most readily?"

"Well, I suppose a good, bright pink, although all colors are in demand. Most of our orders are for assorted colors."

"What varieties would you recommend as the most desirable to grow?"

"That is rather difficult to answer, as we grow a great many kinds. I might name a few of the best of them, though. If I were confined to one azalea, and only one, I would take Van der Cruysen. It is a free bloomer, a good grower, and sells well always. Other pink and red varieties I can recommend are Vervæneana, Simon Mardner, Empress of India and Emperor of Brazil, all double, and Sigemond Rucker, single. As a rule the doubles make the finest show, of course.

"Then there are Comte de Chambord and Mme. de Greve, single, and Princess Victoria, double, pink with white margin. The latter is a very beautiful thing, but a little tender to grow.

"In whites we have Blutheana, the freest flowering single white of all and early,



NEPENTHES EDINENSIS.

also Deutsche Perle, Sacantata and Bernard Andre, fine double whites. Deutsche Perle is one of the most useful for a succession of bloom. It will last two or three weeks before it is all flowered out, and is therefore good for the conservatory. Daphne is much on the same line. It comes in early and continues in flower till spring. Such kinds are not good for specimen plants for exhibition purposes, because it is impossible to get the flowers out simultaneously.

"In scarlet and red are Pres. de Ghellinck de Walle, semi-double, a good market variety, Coquette de Orange, double, a very free bloomer, and Roi de Holland, double. Some don't like the latter, but it is one that the most ordinary greenhorn can get into flower. It always comes. The finest scarlet of all is Apollo (Schultz). It is new and scarce, however.

"I find there is considerable difference is varieties as to liability to shed their flowers when shipped in bloom. Those with pliant stems are less likely to drop than on the more rigid forms, as they feel the jar less."

"Do you import all your plants?"

"Yes; I import direct from Belgium in latter part of October and November."

"Do the growers send traveling agents to America."

"No, not they. The azalea growers are a very independent people, and if you want anything out of them you have got to go to them to get it. Of course, there are dealers who send agents to this country who take orders for azaleas or anything else, but the grower never does it. He don't need to. Large azaleas are very scarce on the other side. England, France and Russia demand them all for private trade. Russia pays as much for azaleas as any country in the world, probably."

"Do you think that we shall ever grow them in quantity here?"

"Well we certainly can grow azaleas here. There is no doubt about that, and I think the day will come when it will be done. My father was quite an azalea man at Astoria, and had the finest collection in the country at that time. He grafted and grew his own stuff. We used to do it, too, at Wilson's in the 60's. The stock we used to graft on was the old Phœnecia, but any strong growing variety will do equally well. One trouble with us here is that our people don t like to have to look three or four years ahead for their money. And again, they can hire men in Belgium at $3 per week that we would have to pay $12 a week for. Most of the fine new varieties over there are raised by amateurs. The stock we import is two to three years old from the graft.

"It makes considerable difference how you order. I make my own selection. We want the best variety and will take nothing else, and naturally our stock costs us more on that account, but then we get just what we want. We are undoubtedly carrying at present the most valuable stock of azaleas in America."

"Do the imported plants generally arrive in good condition?"

"Yes, they come in pretty good shape now. Formerly there were a good many lost through overcrowding. They used to pack them in like a box of sardines, interlacing the tops closely, so that there was no ventilation, but they are getting to understand it better now, and for the last few years there is a great improvement. They secure each plant so that the heads are free, with sufficient air space round them. About the only sources of trouble now are too wet or too dry packing. When packed too wet they will lose their leaves, but we can generally bring them to so that they do not die, but when packed too dry they are gone up entirely and are a complete loss.

"As soon as received we pot them and place them in the houses. The following spring we plant them out in frames, then pot them again by the 1st of October, or even sooner if heavy rains set in. This is one of the important things to be looked out for. If not convenient to pot them at once when the heavy fall rains set in, they should be protected by throwing a sash over them.

"In the frames we use the soil from pansy frames, which has been heavily manured the preceding fall, and find it very satisfactory. We cannot use soil that has been newly manured. They should have a light mulching of hay in the frames. Never use manure for mulching. They should be syringed pretty freely in summer to keep down red spider.

"About once in two weeks we pinch out all leading shoots that tend to throw the plants out of shape. If azalea growers would pay more attention to this matter of pinching back we should not see so many twisted and tied plants at the exhibitions. When a plant has to be tied in to bring it into symmetrical form, it indicates that the gardener did not give

proper attention to his plants while they were making their growth. On the other side of the water the growers are getting careless on this point. Plants are sold according to the diameter of their heads, and there is a temptation to sacrifice shape for size. After growing them one season here and taking proper care of them, we get a nice, short, bushy growth, beautifully shaped plants and fully 50 per cent. more flowers."

"At what temperature do you keep azaleas in winter?"

"Well, we hold them at about 40°. When we want to hurry them along, say for Christmas, we give them 55° to 60°. But as you know, Easter is our great objective point, and we hold them back all we can. We do this with difficulty when Easter comes late, as is the case this year, and we find it necessary to keep the houses down as close to the frost line as possible. It sometimes occurs that they get a little too low. When this happens the men have instructions to fill the houses with tobacco smoke as quickly as possible. We place wet tobacco stems in heaps on the paths, and put live coals upon them. On one or two occasions we have had quite a severe freeze come on us anawares, when the temperature was so low that water thrown on the plants would stiffen at once, and even the water in the hose was frozen. We applied the tobacco smoke treatment and did not lose a single plant."

"Do you thing there is any special value in the tobacco, or would any moist smoke be equally effective?"

"No, I don't claim that there is any special virtue in the tobacco, but I have never used anything else. Tobacco is something that every greenhouse man has at hand, and we are sure on one point with it, that it can do no harm."



Carnation Notes.

In reviewing the papers and discussions before the Am. Car. Society I would like to note some of the results of my experience and observations.

The soil on which the carnations have been grown is quite stony, and a sort of peat and loam mixture; on this the Grace Wilder has proved an excellent summer bloomer, making fine dwarf, stocky plants, which gave a profusion of finely colored flowers, and which needed no staking. The plants have been grown on the same ground year after year for several years, no ill effect being apparent in the health and vigor of the plants, which have been grown from the same stock since its first introduction some ten or twelve years ago. In regard to the continuous use of the soil for carnations I may state that one house has been used for ten years without change of soil, and that last year the finest house of Wilders that I have ever had were grown in this house. The first three or four years the house was planted with Snowdon, which did finely, more than 10,000 flowers having been picked on a single day. Perle roses were then grown for one year, these also did splendidly, the flowers being of fine color and no "bullheads" were found, probably owing to the peculiar nature of the soil. Since that time the house has been constantly grown to Wilder, the old plants being kept in for summer flowering and only thrown out when the house was cleared out preparatory to bringing in the plants from outside about the first of September.

The beds were solid, being raised about six or eight inches above the walk, which was in the center of a house 14 feet wide, and 20 inches high at the sides. The manure used was cow manure, well rotted until after the roses were out, since which time nitrate of soda, pulverized sheep manure and wood ashes were used, with a good sprinkling of air slacked lime put on each year before digging. This year a mild brine was used with seeming excellent effect. A teacupful of common table salt was used to a common sugar barrel of water, laid on evenly over the beds, plants and all, which were then syringed over with the hose. A coarse rose watering pot was used for the brine, to distribute it more evenly.

In propagating I have for over 20 years used only pipings, and with a very small percentage of loss. The method is to take the shoot to be used between the thumb and forefinger and draw it out below the second pair of well developed leaves where the "wood" is moderately firm, no knife being necessary, the pipings being simply placed in the sand, a cut being drawn in the sand to receive them with a knife or trowel, and they are kept wet and usually root in ten days or two weeks. They are then potted off into small pots.

I find that a good time to propagate is anywhere from November to May, whenever a good batch of stock is in sight; and in the early days of the Wilder and Snowdon, when a large stock of plants was desirable, the process was kept up all summer. I prefer potting the young plants to boxing them, as less injury is done them when planting out.

During the past three seasons I have grown, as an experiment, a few thousands of carnations indoors all summer. The practice has been to shift the plants into 3-inch pots instead of planting outdoors. Soon after the plants have been pinched over in twos they are shifted into threes and when large enough they are again topped and allowed to stand in the threes until August, when they are planted out in the house where they are to remain; and I am satisfied that for a holiday crop this is a success, for with the changed condition of the market of late years, when the chrysanthemum has monopolized the business, an early fall crop is less desirable and the carnation plants not being exhausted, better midwinter results may be obtained.

Malden, Mass. BENJ. GREY.

Business Methods.

BY C. W. WARD.

[Read before the meeting of the American Carnation Society at New York, November 1.]

My paper must of necessity be brief as the time given me to prepare it as well as my limited experience in the florists' business preclude an extended essay.

The first business maxim should be honesty and fair dealing; the second to conduct our business so that it shall be successful and profitable.

While there are no set rules nor rigid lines upon which business can be conducted there are certain general principles which may be universally applied. You should not undertake to do more business than you can properly oversee and care for yourself; nor should you sell your wares below cost of production; neither should you make prices upon an article without ascertaining what it costs to produce it. You should never engage in an injudicious cutting of prices below market values in hopes of increasing your business or getting an undue advantage of your neighbor. The most foolish thing a grower or dealer can do is to attempt to run out his competitor by selling goods below cost. This, with the improper extension of credits, has ruined more business houses than any other cause.

Treat your customers fairly and liberally. When shipping your customer an invoice of plants imagine yourself in his place and what you would think if you should receive the same plants at the same price you are receiving for them and packed in the same manner as you are packing them. By keeping this in mind, and treating them as you would wish to be treated, you will retain your trade as well as the good will of your customers. The best way to retain your customers' good will is always to send first class goods so packed that they will arrive in fine condition.

Aim to produce a high grade article and sell it at a fair price and a fair profit. Remember that in growing plants and flowers there is also plenty of room at the top while the lower ranks are always crowded. In growing cut flowers for market aim to send fine long stemmed blooms, neatly bunched with some foliage in the bunch. In bunching tie the stems close to the butts so that the flowers will fall gracefully apart when the bunch is held up.

In packing flowers wrap the butts of the stems in damp sphagnum moss and wind soft paper around the moss, packing the bunches upon soft paper cushions so that the flowers may not bruise. Use clean, neat boxes to pack in. The neater your flowers open out on the market the quicker they will sell, and if your flowers open up uniformly fresh and in attractive shape you will make a reputation for superior stock and eventually get the highest market prices.

Try to send a fair quantity of first class stock upon the market every day. Do not suddenly flood your commission man with a large quantity of perishable flowers and then blame him because he does not sell all at high market quotations. Do not disappoint your customers, convince them that they can rely upon you and that you rely upon them.

Treat your commission man fairly. Do not censure him unless you are sure he deserves it. Give him credit for the *good* he does as well as for the *bad* you think he does. By so doing you will gain his respect and good will if he is honest and you should deal only with such as are honest.

In selecting your customer or commission man watch his habits carefully. If he is economical and careful about his living and business expenses you can feel reasonably safe in dealing with him; but if he is reckless and extravagant in his expenses, keeps fast company, gambles and follows the betting fraternity, be very careful in your dealings with him, as sooner or later these elements are sure to ruin him and you will eventually lose thereby.

Keep up with the times; do not lag behind the age. Keep posted as to the improved and coming popular plants and be prepared with a stock when the demand comes.

All these may be considered business methods. You may think them impractical from your standpoint, but close

observation has convinced me that the majority of successful business concerns are managed upon these general principles. But you have not learned these by hearing this paper read. Experience is our main teacher and no amount of advice nor essays upon business methods will teach us to be business men. Each business and each locality has its ever-varying peculiarities which must be laboriously learned. The only course is to put the ideas imbibed from advice or essays upon practical trial and watch the results, and the experience obtained thereby will eventually teach you proper business methods.

American Carnation Society.

NOMENCLATURE CALL.

The undersigned committee request the registration of the names of new seedlings, also of any other varieties that are not well known, so as to avoid duplication and confusion in cataloging them.

Any variety known under two or more names should also be reported, with both or all the names it is known under given.

Whenever possible it will be well to give the pedigree of varieties, stating color of flower in each parent and in particular state upon which the seed pod was produced. It will also be well to give a complete description of varieties registered, so that this committee may be able to make a complete report at the February meeting.

The committee also respectfully offer the following suggestions in the naming of seedlings: Use short names as much as possible. Descriptive names are desirable, one name being preferable, but such as convey one idea are good, as Tidal Wave, Silver Spray, etc. In the use of proper names avoid similarity, such as John Smith and afterward a Mrs. John Smith. The names of public characters are most likely to be duplicated.

Send names and other matter relative to this committee to Albert M. Herr, Lancaster, Pa.

A. M. HERR, } Com. on
C. J. PENNOCK, } Nomenclature.

Carnation Ferdinand Mangold.

In your paper of November 19, on page 320, under Philadelphia notes, I find the correspondent was "struck as being remarkable that Mangold, which splits its calyx with a good many growers, was perfectly intact in the collection exhibited."

Mr. John Thorpe stated to the writer within the past year that Ferdinand Mangold did not burst its calyx, and if anybody, he ought to know. From careful observation made by me I am able to confirm this statement of Mr. Thorpe, and I am satisfied that under ordinary treatment it will not only *not* burst its calyx, but that it is as near the ideal crimson carnation as we shall be likely to get for some time to come.

Wayland, Mass. R. T. LOMBARD.

THE adjourned meeting of the Chester County (Pa.) Carnation Society November 28, was well attended. Constitution and by-laws were adopted, but permanent officers will not be elected until the January meeting. Meetings will be held on the first Saturday of every month and usually at Kennett Square on the Baltimore Central R. R. A cordial invitation is extended to all florists who may be pleased to visit this section. Marketing of cut flowers will be subject for discussion at next meeting.



Dendrobiums.

In this extensive genus of orchids we have some of the most useful and beautiful epiphytes in cultivation and the majority of them are of comparatively easy cultivation, many of the most beautiful doing well in an ordinary greenhouse and can be classed as cool house orchids, while others require a high temperature at all times.

The dendrobiums can be divided into two classes, the pseudo-bulbous species and those with upright bulbous stems.

The upright growing varieties, such as D. nobile, densiflorum, superbiens, thyrsiflorum, fimbriatum, etc., do best when grown in pots or pans and kept in shape by training to stakes. The pots should be about two thirds full of crocks and the plants grown in a mixture of fibrous peat and sphagnum moss, with a few pieces of charcoal in it. The moss and peat must not be too fine, in fact, the rougher the better, and the plant should be elevated an inch or two above the rim of the pot to allow the water to run off, as the young growths are very apt to damp off if water lodges at the crown of the plant.

The pendulous species, such as D. amœnum, Bensoniæ, Devonianum, Pierardi, superbum, Wardianum, etc., do best in baskets suspended from the roof of the house.

To grow dendrobiums well they must have well defined periods of rest and growth, and to have good flowers the growths must be well ripened. During their period of growth they like a liberal amount of heat, a moist atmosphere and plenty of water at the roots; in fact the soil should never be allowed to get dry while they are growing. After the growth is made, which in most species is by the end of August, the plants should be moved to a cooler house and only given water enough to keep from shrivelling until through blooming and starting to make new growths, then give them heat and moisture to encourage a good strong growth. If the plants require shifting it should be done just as soon as growth commences. As soon as growth commences give more heat and moisture. All the dendrobes, and especially the pendulous or basket varieties, are very susceptible to the attacks of red spider and thrip, and if signs of these pests are discovered they must be searched for and destroyed by syringing the foliage once or twice a day in hot summer weather; otherwise the dendrobiums are, unless badly managed, singularly free from insect enemies, being one of the cleanest orchids in cultivation. The flowers on many of the varieties are enormous when compared with the size of the growths that they are formed on.

It would occupy too much space to describe all the good varieties of this noble orchid, so I will only speak of a few of the best and freest flowering varieties.

D. amœnum: A pretty cool house species with long slender stems. The flowers produced from the nodes of the stem; petals white tipped majenta, lip purple, throat yellow, the flowers very fragrant.

D. Bensoniæ: A handsome hot house species; sepals and petals creamy white, lip orange with two large dark purple spots at the base.

D. chrysanthum: A strong growing and fine hot house variety, growing best in a basket and usually producing its flowers along the stem at the time of making its growth. The flowers are deep yellow, lip of the same color marked in the center by a large spot of deep blood purple.

D. chrysotoxum: This is a showy species, an upright growing evergreen plant with fleshy stems about a foot high bearing three or four large dark green leaves clustered at the top of the stem. The flowers are produced in large lateral racemes at the top of the stem, are golden yellow and last a long time in perfection. Pot culture in peat suits this one best.

D. Dalhouseanum: A beautiful strong growing species, very large and showy flowers and very free flowering, the sepals and petals lemon color edged with rose, lip white with yellow base marked with crimson. Can be grown either in a pot or a basket.

D. densiflorum: This is one of the handsomest and freest flowering of all the genus. It is a strong upright grower, evergreen. The flowers are produced in large racemes pendent from the upper joints of the stems, color bright yellow.

D. Falconeri: A fine cool house variety with long slender knotty stems. The flowers are large, white, with purple tips, lip white, marked yellow, throat spotted purple.

D. nobile: This magnificent species is so well known as to need no description, it is sufficient to say that it is the florists' dendrobium and when well grown is one of the best and showiest of the genus.

D. Pierardi: A very free flowering and pretty species with long slender stems. It does best in a basket. Flowers blush white, lip yellow, marked purple, the flowers last a long time.

D. Wardianum: One of the finest, if not the best, in cultivation. A very strong grower, with a thick knotty stem. The flowers are very large, sepals and petals white tipped majenta, lip with a large orange spot and the throat spotted crimson. It grows best in a basket or on a block. JAS. S. TAPLIN.

Maywood, N. J.

A Pansy Society.

We are advised by Mr. Albert C. Hopkins, Nashua, Iowa, who signs himself as "President Pro. tem.", that there has been recently formed a temporary organization, that will soon be made permanent, of "The Pansy Society of America", to be "devoted to the culture and advocacy of the pansy, the childrens candidate for the national floral emblem of the United States." Mr. Hopkins further writes: "We confidently expect to secure its adoption and establish it officially in the American Flag as an outline setting for the stars, by July 4, 1893, thus making it a conspicuous feature of the great American anniversary and World's Columbian Exposition."

Forcing Narcissus.

Has any one of the readers of the FLORIST ever tried growing Narcissus Paper White, grandiflora, in water or soil, without resorting to the slow process of boxing and covering for several weeks, waiting for root growth?

We have the grandiflora now in bud, both in boxes and in water, as is the mode in growing Chinese narcissus. The bulbs

were boxed about Oct. 1 in ordinary soil, and set under the benches after being thoroughly watered, and have received no more attention than to water once in a while, as needed. Growth began at once, and now the plants are showing buds and are still under the benches. I might add that the pipes are warmed during the night somewhat, for the boxed bulbs are a little more forward than those growing in saucers and pans of water which are set on a shelf close to the glass.

This method will do away with the waiting for bulbs to make roots in the pits or under coverings of straw, manure, etc.

I don't know that this is new to anyone, but all authorities recommend treatment similar to that for hyacinths and other Dutch bulbs. BYRON H. IVES.

Albuquerque, N. M.

Fatsia or Aralia Papyrifera.

Mr. W. R. Smith of the Botanic Garden, Washington, has kindly furnished us with the following information regarding the subject of our illustration:

This plant produces the beautiful substance known as rice paper; it has soft, downy palmate leaves; it grows ten feet high, with a stem four inches in diameter, full of white pith like the elder; in a full grown specimen the pith is about one inch in diameter. It is divided into pieces three inches long, and by the aid of a sharp instrument is unrolled, forming the thin narrow sheets known as rice paper, greatly used by the Chinese for drawing figures of plants and animals, and also for making artificial flowers. Until about 1850 the source of this substance was unknown to scientists. The Chinese, on inquiry, gave very fanciful figures and descriptions of it, illustrating the fact that then, as now, "for ways that are dark and for tricks that are vain, the heathen Chinee is peculiar." It was first introduced from the island of Formosa to Europe, at Kew gardens, in 1853; from there it has been widely disseminated. It is almost naturalized in some parts of Australia. In the southern states, and perhaps California, it will flourish. As an outdoor ornamental foliage plant it is well worthy of cultivation in any section of the country.

It is destined to be a peoples' plant as one-half inch of the root will grow and form a good plant the first season. It has survived most winters for the past five years in this city (Washington, D. C.)

New York.

Cut flower trade is generally satisfactory. Roses of all kinds have stiffened up slightly in price and the steady demand indicates that the season is fairly under way. The warm weather has been somewhat unfavorable for some varieties of roses, Cusin, La France and Perle seeming to feel the effect especially, there being a good many blown, poor colored or otherwise poor blooms coming in. Some of the Mermets being received at present are noticeably good in color, size and finish. American Beauties of best grade are in short supply and a good many more than the market affords could be sold at fair prices. Violets are much improved. Carnations are very plenty, but there seems to be a place for them all. Harrisii lilies are coming in faster than they can easily be disposed of. Cypripediums also are quite plenty, but a month on the plant makes no difference to these flowers and so they hold their price. Chrysanthemums are about done. There are a good many coming in yet, but they all show a most suspicious weakness of the neck and hang their heads as if ashamed of having outlived their usefulness. Lily of the valley, paper white narcissus and Roman hyacinths are the only "bulb stuff" being received as yet.

The N. Y. *Evening Advertiser* of November 21 devoted a whole column to a well written article on the narcissus that ought to do something towards increasing the popularity of this flower. Some recent notes on roses in the same newspaper, however, are not quite so well done. For instance, it says: "The Brunner rose is coming in. This is a beautiful looking hybrid, but it has no odor. The Madame Hostes rose is now beginning to come quite plentifully. This is a cross between the Niphetos and the Bride." Somebody's rose education has been sadly neglected.

Over at Pitcher & Manda's the cypripedium houses are worthy of a visit. In one house alone there are not less than 2,500 blooms on the center bench, confined almost entirely to varieties of insigne. One of the latter, a new one from a recently imported lot, has been named Robinsonianum in compliment to Mr. Robinson, of North Easton, Mass. The noticeable feature of this variety is a decided pink flush all over the dorsal sepal.

Mr. W. P. Wight, of Madison, has a good test of the merits of his new bench tile at his greenhouses. A bench of American Beauties fitted with the tile and one with the ordinary board bottom are planted alongside each other and a comparison shows decidedly to the advantage of the tile bench. Madison is still growing as a cut flower producing center. There are now 42 regular shippers of flowers for the New York market in the town.

The New York Florists' Bowling Club has tried the new pins and balls won at the recent tournament with the Philadelphia Club and are very much pleased with their prize.

Mr. John R. Johnson, of U. S. Nurseries, left for England on the steamer Majestic on December 2, to be absent about six weeks. He intends to have a good time.

Boston.

A recent Sunday edition of the Boston *Globe* gave nearly two columns of space to a description of the orchid collection of Mr. F. L. Ames. It was an interesting and readable article, and all right except as to the names of the plants and there the writer, as is usually the case, got badly used up.

At Mr. C. V. Whitten's establishment in Dorchester the roses are in good shape and appearances indicate that Mr. Lawrence Cotter, the gardener, will this winter continue to uphold his reputation for sending first class roses to the city. A fine house of Mermets, one of Brides and Cooks and one of Hostes are now in full crop. A house of Albanys treated as hybrids is starting off well, and there are several houses of Brunners in various stages. The first dozen of Brunners was cut on December 2. There are fourteen greenhouses on the place, seven of which are heated by hot water and seven by steam, Exeter system, so that there is a good opportunity to test the comparative value of the two methods. Mr. Cotter states that he estimates a saving of thirty tons of coal annually in favor of the steam.

Lucius H. Foster has 13,000 violets planted in the houses this season, and they look promising. A house of bouvardia here is just in full bloom.

Quite a good representation of the fraternity was present at the celebration of Jackson Dawson's silver wedding. Most of the gentlemen were accompanied by their wives and they all enjoyed themselves thoroughly. Mr. and Mrs. Dawson were well remembered, the presents being very numerous, and if all the good wishes expressed by their friends should be realized there is no doubt that when their golden wedding anniversary comes round the occasion will be fully as enjoyable as was this.

The public winter meeting of the State Board of Agriculture was held at Horticultural Hall on December 1, 2 and 3. Many valuable papers were read, including one by Prof. L. H. Bailey, of Cornell University, on the crossing of plants.

The December meeting of the Gardeners' and Florists' Club was not attended as well as usual, Mr. Dawson's affair coming on the same evening. The principal business transacted was the defeat of the proposed amendment to the constitution changing the name of the organization to The Gardeners' and Florists' Educational Association.

Among the notable visitors the past week were Mr. J. N. May and Mr. Jos. E. Rolker.

Philadelphia.

Mr. W. K. Harris' new chrysanthemum Eva Hoyt is a magnificent incurved yellow, equal to Widener in size and a more striking flower. It is hardly in when the latter is all cut out and ought to sell well.

Robert Craig's Louis C. Madeira is also a very fine variety; it will attract attention everywhere. In color it is light yellow, incurved, very double and when fully expanded the flowers are as round as a ball and about three inches in diameter. They are borne on a good heavy stem. What is wanted now is a good late white, similar to Ivory or Domination.

Small ferns, with the exception of Adiantum cuneatum, are very scarce. We refer to 3-inch stuff for fern dishes. The demand is greater than the supply.

Palms are moving lively in spite of predictions about the extra large arecas that were going to be left for want of a market for such stock. There are no more to be had; they are all in the hands of retailers or perhaps sold by this time. Stocks of other varieties in large sizes are also very low.

The regular meeting of the Florists' Club was held Tuesday evening, Dec. 1. There was a large attendance, some 50 members being present.

A proposed amendment to the constitution whereby others than those connected with the florist business could become members was overwhelmingly defeated.

The Club button as presented by the committee and adopted by the Club was delivered to members. It is of blue enamel, five-eighths of an inch in diameter, with a white band one-eighth of an inch across the center. The words "Phila. Club" in gilt are on the blue enamel, with the letter "F" across the white band in the center, also in gilt. The design as a whole is neat and much admired.

The following gentlemen were elected to membership: Edward Lucking, Bernhard Wolf, of Phila.; Adolph Farnwold, Wyncote, Pa.; George Paullin, Bridgeton, N. J.

The following were proposed for election at next meeting: J. W. Bitner, Lancaster; W. R. Smith, Washington, D. C.;



FATSIA OR ARALIA PAPYRIFERA.

W. J. Stewart, Boston; F. W. Clinton, James Smith, Chas. Hopham, Edward Mason and Albert Guillerman, of Phila.

A standing committee of three was appointed whose business it will be to pass on all applications for membership before they are presented to the club.

The committee on essays selected the following subject for the next meeting: "The commercial aspect of the florist business in Philadelphia," which was assigned to C. H. Grigg.

The essavist of the evening, Robt. Kift, then read his paper on "Magic and Flowers," which was well received and ordered to be sent to the AMERICAN FLORIST for publication.

[The paper will appear in our next ssue.—ED.]

Indianapolis, Ind.

The Indianapolis Florists' Club at the meeting Dec. 2 adjourned and attended the State Horticultural Society's meeting, it being their annual meeting. It is proposed that the State Florists' and Horticultural Societies shall work together to get proper accommodations at the new State Fair grounds to be opened soon; also an arrangement will be made to have a joint exhibit of fruits and flowers at the next chrysanthemum show.

The results of our last exhibition were in round figures: Receipts $2,800, expenses $2,700. It would be of interest to have other exhibitions state their receipts and expenses.

Remarks heard from customers that were at the show: One lady remarked that less colors should be used in the decorations; another that only the best music should be engaged. It would be hard to improve in that respect unless we engage Gilmore or Theo. Thomas. I think it would be well to have music in the afternoon as well as evening. I suppose a great many have noticed how dull everthing seems to be in the hall on a dark gloomy afternoon.

Carnations are coming in in vast quantities and they are immense in size, of beautiful shades and most delicious fragrance. Don't think Indiana can be beat in this respect.

E. G. Hill during his recent visit to this city showed a red seedling chrysanthemum that will create unusual interest next year on account of its velvety brilliance and slight fragrance.

Chrysanthemum flowers are holding on longer than ever this year—most too long; other flowers should have a chance.

Thanksgiving trade was good.

The committee to be appointed by President Dorner for the next chrysanthemum show will meet in this city in January.

W. B.

Chicago.

The Horticultural Society of Chicago is considering a plan for a spring exhibition on a somewhat novel plan. It is proposed to hold the exhibition in the new conservatory at Lincoln Park, March 26 to April 3, the exhibition to be "the opening" of the conservatory to the public. Being a public building no admission fee can be charged, but it is thought that no difficulty will be found in raising sufficient money for an adequate premium list and as there will be no other expenses except the cost of printing the list no further funds will be needed. A special meeting of the Florist Club was held last Thursday evening to consider the question as to whether a creditable display could be made with the time at disposal for preparation and the Club decided that while earlier notice would have been advisable a creditable display could still be made, and recommended the dates above noted as most advisable for the exhibition.

Mr. R. J. Mendenhall, of Minneapolis, is spending a few days at the Lincoln Park Sanitarium and receiving treatment for rheumatism.

Mr. N. F. McCarthy, of Boston, visited the trade here last week in the interests of the Boston Florist Letter Co.

New Jersey Social Florists' Club.

This organization on Saturday eve, Nov. 21, commemorated the opening of their bowling alleys two years ago with a "social" held at the rooms of the club. The occasion was a very enjoyable one in spite of the fact that Mr. McRorie, who is the club's banjoist, was unable to be present, and Mr. Sampson, who manipulates the harmonica, was also prevented by sickness from attending. It is said that the "Major" filled their places when lunch time came around, however, and took care of their share as well as his own, not wishing to see anything in the sandwich line go to waste.

The regular meeting of the club on Thursday evening, Dec. 3, was well attended. Mr. W. S. Rogers of Short Hills read a very well written and intelligent paper on "Amateur Photography," as applied to horticulture. A comprehensive essay on "Roses as grown in Ireland," by Mr. Hugh Dickson of Belfast, Ireland, was read by President J. N. May. Both papers received a vote of thanks. After the close of the business session bowling was in order, most of those present participating in the fun. The gold medal for the highest score was again won by Mr. Jos. Manda, this being the fourth time Mr. Manda has captured it. It is probable that the club will send a bowling team to Washington next August.

Syracuse, N. Y.

At the annual meeting of the Central New York Horticultural Society the following officers were elected: President, A. D. Perry; Vice-Presidents, Hon. J. J. Belden, Hon. E. B. Judson, W. Brown Smith, H. S. White, J. W. Smith, Thos. Bishop; Executive Committee for three years, P. R. Quinlan and W. Hewson; Treasurer, Peter Kay; Secretary, Henry Youell.

Three new members were elected. The treasurer's report showed a fair balance in the treasury. The secretary's report showed that since the advent of the society three new florists had started, all of whom were doing well, and the older firms had nearly doubled their capacity, which clearly proved that the object of the society, i. e., cultivating the taste for flowers, was being attained.

G. Bartholme has completed his first greenhouse, which is 100x20, and has it nicely stocked. He will put up more glass in the spring. He has rented several houses near him for the winter. Y.

Washington.

The regular monthly meeting of the Florists' Club on Dec. 1 was not very fully attended, several of our prominent members being detained by severe illness in their families. Vice-President Gauges called the meeting to order, and the final report and settlement of the show matters was discussed and passed upon. Mr. Wm. Clark then arose to propose that the members of the club should in their capacity as individuals assist in the preparations to entertain the coming convention of the S. A. F., as the club has already voted not to take part in its corporate form. Each side of the question explained its position fully, and at times quite peppery language was heard, but good humor finally prevailed, although no yielding of the positions assumed by either side can be discovered. Mr. Clark's suggestion was received by all with the feeling that it was the proper settlement of the question. C.

Rochester.

Geo. Savage is greatly elated over his Cypripedium insigne, there being at the present upwards of two thousand flowers in perfection. There are also a number of beautiful hybrids pushing forth their buds and promise a great deal of interest. In one cozy corner George has a group of seedlings in various stages of development.

Our neighbor Mathews down at Utica also has cause to feel proud of his orchid houses this season. He has been very fortunate and it is a treat to any orchid lover to go through his houses and see the hundreds of Mexican orchids bearing a great profusion of spikes. His white Lælia anceps are also in fine condition.

Rose Slugs.

The Missouri State Horticultural Society met at Sedalia Dec. 1, 2 and 3 with a good attendance and a fine display of fruit.

The following extract from a paper on "Insecticides and Fungicides," read by Mr. J. C. Duffey of the Missouri Botanical Garden may be of interest to the readers of the FLORIST:

ROSE SLUGS.

In the spring of 1890 the rose bushes of the Garden were divided into four parts and as soon as the eggs of the rose slug began to hatch were treated as follows:

Division one with whale oil soap 1 pound, sulphur 1 pound, water 5 gallons; division two, paris green ¾ ounce, water 10 gallons; division three, paris green ½ ounce, water 10 gallons; division four, white hellebore 1 ounce, water 3 gallons.

Each of these mixtures entirely destroyed the rose slug and the foliage remained fresh and green throughout the season, while a few bushes left as checks had all the foliage destroyed. A second treatment of hellebore was given for the second brood.

This year two treatments with hellebore kept the rose bushes free from slugs.

S. A. F.

The report of the Toronto meeting has been mailed to all members in good standing. Any member entitled to the same who has not yet received it should notify Secretary Stewart at once. Those whose dues for 1891 are unpaid should forward the amount to the secretary and receive the report, which is in many respects the most valuable ever issued by the society.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As foreman, by an experienced grower of palms, ferns, roses, carnations, etc., and early forcing of flowers. Address W, care American Florist, Chicago

SITUATION WANTED—By an active young man of sober habits; 5 years' experience in growing cut flowers and bedding plants. Good reference. Address A F, care American Florist, Chicago.

SITUATION WANTED—By a young man, age 24; large experience in greenhouse plants. Speaks French, Flemish and little English. Good references. Address ART DEMEYER, Porte Anvers, Ghent, Belgium.

SITUATION WANTED—By a single young man who has had good experience in England and America growing cut flowers, violets, carnations and roses First-class references. Address M. ALEXANDER, 40 Bradley St., Watertown, N. Y.

SITUATION WANTED—By a practical English gardener; experienced in fruit, vegetable, and landscape gardening. Fair knowledge of florist and nursery work. Good reference in this country. Single; sober; age 34. Seventh day Adventist. DANIEL BENSTEAD, Washington, D. C.

WANTED—To lease or rent, an established florist business with 10 000 or 15,000 feet of glass. Address K. WOLFF, Carthage, Ohio.

WANTED—A good, sober gardener; one that is good to propagate as well as work in a greenhouse. H. MOORE, 54 Beale St., Memphis, Tenn.

WANTED—A man to take care of palms, ferns and bulbs. Steady work and fair wages to a good man. Must be unmarried. Address O. P. BASSETT, Hinsdale, Ill.

WANTED—A first-class rose grower and propagator, one who thoroughly understands the business of growing cut flowers. Must be sober and a protestant. Address, giving references and wages expected, FLORIST, Station R, Philadelphia, Pa.

WANTED—A young man of good habits and pleasing address as cut flower worker in a first-class retail store in a large western city. Must come well recommended. Address, stating age, nationality, references and salary desired, to R G, care American Florist, Chicago.

FOR SALE—Greenhouse, 3,600 ft. of glass Established 16 years; in city of 30,000 people. Will sell or lease ground. Address S S, care Am. Florist.

TO GARDENERS AND FLORISTS.

J. C. GOODING, the well-known rose grower, wishes to retire, and will dispose of his greenhouses, all well arranged, heated by steam, about 16,000 feet of glass, dwelling and barn; lot 160x350; good location, within city limits. Cash, half down. Address 1216 Euclid Ave., Cleveland, O.

CYCAS REVOLUTA STEMS



by weight, roots and fronds cut off. For these we book orders at EXTRA FAVORABLE RATES up to

NOVEMBER 20TH,

in small or large quantity.

THE TRUE LONG-LEAVED VARIETY,

in sizes from 3—4 inch to 4—6 feet. We imported past season over 30,0 0 lbs., and can refer to some of the best known firms in the U. S. as to satisfactory results.

Remember a Cycas is a safe investment.

ALSO ORDERS TAKEN FOR

RHAPIS FLABELLIFORMIS.

Can send you all safely by freight. Full information as to prices, time of delivery, freight rates, etc given on application. SEND FOR CATALOGUE.

Send orders to

H. H. BERGER & CO.

SAN FRANCISCO, CAL.

THE American Carnation Society.

ORGANIZED 1891.

Annual meeting, Buffalo, N. Y., Third Tuesday in February, 1892.

DEVOTED TO THE IMPROVEMENT OF THE CARNATION.

ANNUAL MEMBERSHIP FEE, $2.00.

Send your name and address to

C. J. PENNOCK, SEC'Y,
Kennett Square, Chester Co., Pa.

And remit Postal Note for $2 co to

C. W. WARD, TREAS.,
East Moriches, N. Y.

CARNATION GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "**DORINDA,**" a seedling of 1888—one of the best.

Catalogue will be ready Dec. 10, '91. Send for it.

R. T. LOMBARD,
WAYLAND, MASS.

AURORA.

Winner of the Ladenburg Cup for best pink Carnation of recent introduction at Madison Sqr. Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12 00 per 100; $100 per 1,000.

EDW. SWAYNE,
KENNETT SQUARE, PA.

ROOTED CUTTINGS OF

CARNATIONS

Nice, healthy Rooted Cuttings of Carnations of all the leading and newer sorts, in any quantity after Dec. 10th. Orders received for future delivery at 10 per cent. discount from price list. Correspondence solicited.

JOSEPH RENARD, Unionville, Chester Co., Pa.

CARNATIONS

NEW VARIETIES, STANDARD VARIETIES, NOVELTIES.

Send for price list of Rooted Cuttings to

GEO. HANCOCK, Grand Haven, Mich.

Carnation Cuttings.

NEW AND STANDARD SORTS.

SEND FOR PRICE LIST.

WM. SWAYNE,

P. O. Box 226. **KENNETT SQUARE, PA.**

1000 CARNATION BLOOMS

of **Lamborn and S. Spray** to spare weekly. Also 500 strings Smilax, 4 to 7 ft long, 15c per string. Cash with order. For standing orders will make reasonable price.

J. J. LAMPERT, N. King St., Xenia, O.

HYDRANGEA THOS. HOGG

Strong two year old Plants for Forcing,

$10.00 per 100.

SAMUEL C. MOON

MORRISVILLE, Bucks Co., PA.

ROOTED CUTTINGS.

Carnations. Some 30,000 feet of glass are devoted to Carnations alone, with two propagating houses each 100x10; these will be kept filled with cuttings of the three best Novelties of last season—**LIZZIE McGOWAN, HECTOR and GOLDEN GATE;** also the best of the older sorts and other novelties of merit. They will be ready for delivery DECEMBER 20th and later as desired. CUTTINGS will not be sent out until well rooted and every effort made to give satisfaction in all particulars.

READY NOW, a fine lot of **GERANIUM CUTTINGS,** all of the very best varieties Old and New, making them cheap at the price, $2.00 per 100; $15.00 per 1000. Other miscellaneous stock later on. It will pay you to watch my adv. for changes.

Correspondence Solicited. Descriptive List on application.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

The New Carnations. ROOTED CUTTINGS.

INTRODUCERS' STOCK OF

GOLDEN TRIUMPH, PEARL, AURORA, THOS. CARTLEDGE, PURITAN, GRACE DARLING, CRIMSON CORONET, PEACHBLOW CORONET.

—— VARIETIES OF LAST SEASON AND STANDARD SORTS. ——

Lizzie McGowan, Hector, Mrs. Fisher, Golden Gate, J. R. Freeman, Henry A. Dreer, Constancy, Edelweiss, Angelus, American Flag, Anna Webb, Lamborn, Portia, Grace Wilder, Silver Spray, Nellie Bly, Hinze's White, Tidal Wave, Fred Creighton, Etc.

Strong, healthy Stock at LOWEST PRICES FOR CASH. LIZZIE McGOWAN, HECTOR, MRS. FISHER, GOLDEN GATE, and most of the others. Can be furnished in any quantity.

SEND POSTAL FOR ILLUSTRATED DESCRIPTIVE TRADE LIST.

30 varieties CARNATIONS. 36 varieties COLEUS. Best bedding GERANIUMS.

ALEX. McBRIDE, Alplaus, N. Y.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

JACK ROSES

12,000 one year old, 2½ to 3 feet high, well branched, $15.00 per 100.

5,000 two year old, 3 to 4 feet high, well branched, $20.00 per 100.

Also 2,000 fine assorted H. P. Roses, one year old, $15.00 per 100.

JORDAN FLORAL CO.,
706 Olive Street, ST. LOUIS, MO.

READY FOR Immediate Delivery,

30,000 LOW BUDDED ROSES.

Ulrich Brunner. Baroness Rothschild.
Magna Charta. Persian Yellow.
Mme. Gabriel Luizet. La France, Etc., Etc.
$10 per 100; $90 per 1000.

Gen. Jacqueminot, 2 years old, own roots, $12.00 per 100.

HULSEBOSCH BROS.,
Box 3118. NEW YORK CITY.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

ROSES.

Wide awake florists will purchase their Roses now, while in a dormant condition. Our plants shifted now in larger sizes of pots, will give you a return of 100 %.

We have now ready 50 000 in 2-inch pots, $3 per 100; $30 per 1000, our selection.
25,000 in 3-inch pots, $5 per 100; $50 per 1000.
Also a fine lot of HYBRIDS, $5 per 100; $50 per 1000.
Larger sizes from $10 to $20 per 100.

Send lists to be priced. New Catalogue ready January 1.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

Mention American Florist.

Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Bon Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000.

TEA ROSES, 30 sorts, from open ground, extra strong, $4.00 per 100.

HERMOSA, strong plants, $6 00 per 100.

HYBRID PERPETUAL, sorts including JACKS, years old, extra strong, $10.00 per 100.

SMILAX. Good strong plants, $2.50 per 100; $20.00 per 1,000.

WOOD BROTHERS,
FISHKILL, N. Y

Mention American Florist.

THE AMERICAN FLORIST AND MEEHAN'S MONTHLY

in Club one year for $2.75.

Address ***AMERICAN FLORIST COMPANY,***
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THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

"DEVOTED to woodcraft and what fun we can grab in our rush for the almighty dollar," is the line that appears under the title of *The Woodsman*, an infant monthly journal that has sent forth its first "wail" from Evergreen, Ala., under date of Nov. 1. "Caldwell the Woodsman" is editor and publisher, and he has adorned the columns of the initial number with some of his best productions, in his breeziest and most humorous style. And he promises to in future numbers also thus "sugar coat the great big musty chunks of wisdom" he will present to his readers. The subscription price is 50 cents a year.

VICK'S MONTHLY with the November issue appears radically changed in form. The pages are now about the size of those of the FLORIST, and the style of make up is quite different from that followed by this magazine for many years past.

"A FLORIST," New Bedford, Mass., will please take notice that we pay no attention to anonymous communications.

News Notes.

MERIDEN, CONN.—Michael Galvin, the florist of Kensington avenue, was badly injured in a runaway two weeks ago while transporting a load of chrysanthemums to be used in a wedding decoration.

BURNSIDE, KY.—Ellis Stephenson has gone out of business, and there is now no one in the trade here, so postage will be saved by sending no trade lists etc. to this place. Mr. Stephenson is now at Bovard, Pa.

ST. JOSEPH, MO.—Mr. Hans Nielson had the misfortune to have the south ends of several of his greenhouses burned the night of November 29, occasioned by the burning of a street car barn in close proximity to his houses.

BIRMINGHAM, ALA.—A chrysanthemum show was held the last week in November in the Woman's Exchange building, under the management of Florist W. H. Lindsay. One half the proceeds went to the United Churches of the city.

DENVER, COLO.—Mrs. H. E. Chamberlain of the Wheat Ridge greenhouses has purchased the florist establishment of F. T. Rushmore at No. 1626 Welton street and will hereafter conduct it. Mrs. C. L. White will remain in charge of the city store.

ELGIN, ILL.—Souster & Co. is a new firm of florists that have started in here recently. They have erected 10,000 feet of glass, putting up the houses in first class shape. The bulk of the glass will be devoted to the growing of cut flowers. Hot water is used for heating.

LOS ANGELES, CAL.—The receipts at the chrysanthemum show of the Southern California Horticultural Society were $1,031 and the disbursements $984.50. The society has decided to hold a spring show the last week of April next. A total of over $500 will be offered in premiums.

EAST LIVERPOOL, O.—The first chrysanthemum show ever seen in this city was given by Florist Robt. Luepke November 7 to 11, for the benefit of the Epsworth League. He exhibited some 600 plants in from 4 to 10-inch pots, and the display was admired by a large number of visitors.

DELAWARE, O.—At a meeting held Nov. 24 the Delaware Chrysanthemum Society was organized with officers as follows: D. Grinton, Pres.; Miss Ida Newell, Sec'y; Jos. Cunningham, Treas.; D. B. Stevenson, Correspondent. Plans are already under consideration for a chrysanthemum show next year.

OMAHA, NEB.—There was some talk of having a chrysanthemum show here this season, but it had to be given up as the matter was not taken up in time to make proper preparations. But the matter is in mind now and an attempt will be made to get the florists to organize and prepare for an exhibition next year.

KINGSTON, MD.—Thomas G. Harold, the florist and shipper of holly at Kingston, Md., died on November 29 after a lingering illness of nearly two months. Mr. Harold has been in poor health for two years. His son J. H. Harold, is at present in charge of the business, which will probably be closed out before spring.

WICHITA, KANS.—Mr. C. A. Rose, of 404 N. Water street, and Chas. P. Mueller, the Fairmount florist, have combined and the firm style will be Rose & Mueller, the Fairmount florists. Mr. Rose takes charge of the cut flower department and Mr. Mueller of the greenhouses. They have one of the largest and best equipped greenhouse establishments in Kansas.

ROCHESTER, N. Y.—Mr. John B. Keller has retired from business, being succeeded by his two sons, F. J. and M. J., who have adopted the firm name of John B. Keller Sons. George J. Keller, another son, has started in business for himself at 309 Mount Hope avenue, with about 3,500 feet of glass. Mr. G. J. Keller was married Nov. 19, the bride being Miss Mary A. Weber.

SAN FRANCISCO.—The Florist Club at its last meeting discussed the practice of certain alleged florists in soliciting funeral work from homes where a death had occured and decided to publicly place the stamp of its disapproval upon such methods. At the next meeting an attempt will be made to devise ways and means to prevent the trade from being disgraced by a continuance of the practice.

SPRINGFIELD, MO.—W. A. Chalfant has erected a new greenhouse 100x18½ with iron frame, ventilating apparatus, etc. It is divided into two compartments with the heating arrangements so adjusted as to give a difference of from 10° to 15° in the temperature of the divisions. Mr. Chalfant gave a chrysanthemum show November 7 to 11 and had 125 varieties in bloom at the time, some of the flowers being exceedingly well done.

CINCINNATI.—At the last meeting of the Cincinnati Florists' Society it was decided to give a chrysanthemum show next year. Much enthusiasm was shown and a guarantee fund being suggested $400 was signed in a few moments by those present. More to follow. Quite a delegation from this city attended the Indianapolis show and they can't say enough in its praise. But keep your eye on this city for we are going to have the finest show on earth in '92.

DENVER, COLO.—Tesch & Larson, of Berkeley Park, have sold out to Wm. H. Smith & Son, who will continue the business. Mr. Larson remains as manager. Bills against the firm of Tesch & Larson will be paid by James G. Tesch, room 47, Symes Block, Denver. The Denver Florist and Fruit Co. have built eight houses of which five are 100x12 and three 100x18 each, heated by two 45-horse power boilers. This company had a grand opening at their 16th street store November 23.

SPRINGFIELD, MASS.—The Hampden County Hort. Society held its annual meeting Nov. 24 and elected officers for the ensuing year as follows: E. S. Brewer, president; R. H. Smith, C. W. Bryan and J. D. Cadle, vice-presidents; Gurdon Bill, treasurer; W. F. Gale, secretary. The treasurer reported a balance of over $3,000 in the treasury. It was suggested by the president that a juvenile department be added, also that the June show be discontinued that every energy might be concentrated on the November exhibition.

SPRINGFIELD, O.—Mr. Henry Kauffman died November 28 from kidney trouble, aged 48 years. His son Albert will continue the business. The mother of the Wilson Bros. died November 27 after a lingering illness. Miss Emma A. Baker has opened a floral store in the Arcade building. She formerly represented J. B. Heiss of Dayton. Good & Reese have added seven new houses 106x20 each, and McGregor Bros. are laying the foundations for five more houses 100x22 each. All heated by steam. A. R. Aldrich gave a chrysanthemum show that was largely attended.

NEW BRITAIN, CONN.—At the annual meeting of the New Britain Hort. Society December 1, officers for the ensuing year were elected as follows: John Gerard, president; Mrs. C. A. Shepard, vice-president; E. M. Hulbert, secretary and treasurer. The membership of the society has steadily increased during the past year, the society now numbering 88 active members. During the year past the society has held two private and three public shows. The constitution has been amended to admit persons under 16 years of age to junior membership, and it is hoped that this section will become one of the strong features of the society.

PITTSBURG.—About twenty members of the P. and A. Florists' and Gardeners' Club, by invitation of Pres. E. C. Reineman, spent a most enjoyable evening at his bowling alleys in Mt. Troy December 2. It was surprising to see how well the balls were managed, and if the members of the club would practice some they would undoubtedly carry off the cup at next year's bowling contest of the S. A. F. if they compete, which is to be hoped for. After partaking of an elegant lunch and being treated to a few speeches by the boys, the party broke up about midnight, and no doubt some of the members felt pretty well broken up next morning after such violent exercise.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

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WHOLESALE FLORIST
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(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
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If you do not receive our regular monthly price list write for same.
WIRE WORK A SPECIALTY.

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116 Dearborn Street, CHICAGO.
OPEN NIGHTS AND SUNDAYS.

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CUT FLOWERS,
AND FLORISTS' SUPPLIES,
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

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LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

C. STRAUSS & Co.
GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S PENNOCK)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. **Return Telegram** is sent immediately when it is impossible to fill order.

CUT SMILAX
Over ¼ acre solid beds. First-class quality, 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.
JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

Wholesale Markets.

Cut Flowers.

	BOSTON, Dec. 8.
Roses, Bon Silene	2.00
" Gontier, Niphetos	3.00
" Perles, Sunsets	3.00@ 4.00
" Mermets, Bride	4.00@ 6.00
" Watteville, Waban	4.00@ 6.00
" Beauty	25.00@ 33.00
Carnations	1.50@ 2.00
Violets	1.00@ 1.50
Callas	10.00@12.00
Valley	6.00
Romans, Narcissus	4.00
Smilax	12.00
	NEW YORK, Dec. 8.
Roses, Bon Silene	1.00@ 3.00
" Gontiers	2.00@ 4.00
" Niphetos	2.00@ 3.00
" Cusin, Waban	3.00@ 5.00
" Perle	2.00@ 4.00
" Watteville	3.00@ 6.00
" La France	4.00@10.00
" Albany	3.00@ 8.00
" Mermet, Bride	3.00@ 6.00
" Beauties, best	50.00@60.00
" average	15.00@20.00
Carnations	1.00@ 1.50
Violets	1.00@ 2.00
Lily of the Valley	6.00@ 8.00
Roman hyacinths	4.00@ 5.00
Harrisii Lilies	12.00@15.00
	PHILADELPHIA, Dec. 8.
Roses, Brunners	50.00@75.00
" Laings	35.00@50.00
" Beauties	20.00@35.00
" La France, Albany	5.00@ 6.00
" Mermets, Brides	5.00@ 6.00
" Bennetts, Duke	5.00
" Hoste, Guillot	5.00
" Cusins, Watteville	4.00@ 5.00
" Perles, Niphetos	4.00@ 5.00
" Gontiers	3.00@ 4.00
Valley	6.00@ 7.00
Carnations	1.00@ 1.50
Romans	4.00
Paper white narcissus	4.00
Smilax	15.50@20.00
	CHICAGO, Dec. 9.
Roses, Am. Beauties	20.00@25.00
" Perle, Niphetos	5.00@ 6.00
" Gontiers	3.00@ 4.00
" Mermets, La France	5.00@ 7.00
" Brides, Albany	6.00@ 8.00
" Bennetts, Woottons	5.00@ 7.00
" Bon Silenes	2.50@ 3.00
Carnations, long	1.50@ 2.00
Carnations, short	1.00@ 1.25
Smilax	12.00@18.00
Violets	1.00@ 2.00
Roman hyacinths	6.00
Valley	8.00

Peck & Sutherland,
Successors to W. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
A large stock of ROSES, LILY of the VALLEY, VIOLETS, CARNATIONS, ASPARAGUS, HYACINTHS and other Standard flowers
FOR THE HOLIDAYS.
HOLLY AND MISTLETOE, of the best quality, by the Case or in large quantities at low prices.
CALDWELL'S LONG NEEDLE PINES, PALM LEAVES, MAGNOLIA BRANCHES, ETC., CONSTANTLY ON HAND.
PECK & SUTHERLAND,
67 Bromfield St., BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

EDWARD C. HORAN,
Wholesale Florist
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

SEE ADVERTISEMENT OF
YOUNG BROS.
ON PAGE 393.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST
32 West 30th Street,
NEW YORK.
ROSES SHIPPED TO ALL POINTS.
Price List on Application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

GEO. MULLEN,
WHOLESALE FLORIST.
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

CARNATION BLOOMS.
IN FANCY COLORS—LONG STEMS.
I solicit standing orders from florists and others throughout the country, as I make a specialty of shipping them long distances safely by express.
WANTED! 50 plants or more of Scented Geranium **London Blue.** Mail sample plant or foliage with price, to the undersigned.
CHAS. T. STARR, Florist, Avondale, Chester Co., Pa.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

Wife Wanted.

Below is a copy of a letter received by John A. Salzer Seed Co. Mr. Henry A. Salzer, the manager, says he presented the matter to the ladies of his establishment, but all declined with thanks, yet all agreed that they would not now need to go through life without having received "an offer of marriage."

WAYNE, NEB., Nov. 12, '91.

DEAR MR. SALZER,

For several years I have received my seeds etc. from you. Now then to the point. I live in a region sparsely settled with girls—they are extremely scarce here and I want to marry and haven't time to look up a girl, so I thought I'd write to you, as from the large number in your employ you must be able to furnish me a wife. I'm 34 years old, tall, blue eyes, black hair, own 160 acres land, 242 bushels wheat, 120 bushels oats, 4 horses, 3 colts, 50 hogs. That is all I know to write. Please answer soon whether you can furnish me a wife. My address is

——— ———, Wayne, Neb.

MR. D. M. FERRY is reported to carry life insurance to the amount of $150,000.

Fine Cyclamens.

We notice in your issue of October 29 an article on the cyclamen in which it is stated that the old favorite has been neglected. Undoubtedly this is true as to some localities, but here in Cincinnati we have a man who grows them to perfection, Mr. John Rose, with Mr. F. T. McFadden. Never have there been seen on this or any other continent plants grown to such perfection. These specimen plants will produce at least 150 blooms. Imagine a cyclamen plant seven feet in circumference. These plants wholesale at $9, $12, $18 and $24 a dozen, the very largest at $3 each and sell quick.

Cincinnati. E. G. GILLETT.

TO THE TRADE.

BOOK-KEEPER, twelve years' experience in every branch of the Nursery and Seed business, desires position. Not afraid of work. Accurate and a good penman. Abstainer. Can furnish A 1 references. Address

E M, care American Florist, Chicago.

For Sale Cheap.

	Per Doz.
HIBISCUS SINENSIS, very strong, 4-in. pots,	$2.00
CROTON Aureum and Interruptum, 4-in. pots, 12 to 15 inches high	2.50
BOUVARDIA Alfred Neuner, double white, 5 in. pots, in bloom	1.50
PASSIFLORA PRINCEPS, Red Passion Vine, 4-inch pots, very fine stuff. 50c. each.	
ADIANTUM CUNEATUM, fine stuff from 5 inch pots, in perfect health. $20 per 100,	2.50
GARDENIA FLORIDA, Cape Jasmine, 4-inch pots, strong and bushy. $15 per 100,	2.00
HYDRANGEA Thos Hogg, 4 inch pots, strong,	2.00
CHRYSANTHEMUMS, fine stock plants of leading sorts, 5 and 6 inch pots	2.00
PRIMULA OBCONICA, 4-inch pots	1.25
PRIMULA OBCONICA	2.00
PASSIFLORA ELATA, 4 inch pots	2.00
PASSIFLORA ELATA, 5-inch pots	3.00
AZALEAS, with buds	3.00

Write for wholesale price list.

MICHEL PLANT AND SEED CO.,

ST. LOUIS, MO.

Mention American Florist.

PANCRATIUM CARIBBAEUM.

(The Great Spider Lily.)



This was one of the best selling novelties last season, and not only sold, but gave **SATISFACTION** to the purchasers. Thousands of bulbs have bloomed freely in all parts of the country. Every **LIVE FLORIST** will catalogue it this season, and to meet the popular demand we have secured 250,000 bulbs of blooming size.

We offer these at $3.00 per 100; $22.50 per 1000, packed and delivered f. o. b.

We also have a few bulbs of the **CRINUM NOBILE** that great average over 2 lbs. weight, at $35 per 100, and some fine **CRINUM AMERICANUM** at $7 per 100. These bulbs are all first quality and size. Order now, and be in time to insure your supply.

THE AMERICAN EXOTIC NURSERIES,

R. D. HOYT, Manager, SEVEN OAKS, FLORIDA.



PALMS and DECORATIVE PLANTS

ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

PALMS and FERNS

Well grown Specimen Plants, fit for immediate use.

	Each.
KENTIA, 3 to 3½ ft. high, 6-inch pots, 7 to 8 leaves	$2.50
do 2 to 2½ ft. high, 5-inch pots, 5 to 6 leaves	1.50
do 1½ to 2 ft. high, 4-inch pots, 3 to 4 leaves	1.00
COCOS WED. 2 to 2½ ft. high, 6 to 8 leaves	2.00
LATANIA BOR. 2½ feet high, 6 to 8 leaves	1.00
PANDANUS VEITCHII, 2 to 2½ ft. 6-in. pots	2.00

FERNS—Well grown plants in 3 in. pots, for fern dishes, etc., in following varieties:

Pteris Hastata, Sieboldi, Cretica and Alba Lineata, Davallia Stricta and Fijiensis, Lastrea Leptophyllum, Polypodium, Blechnum and Polystichum, assorted, at $10.00 per 100.

E. W. WEIMAR, Mt. Vernon, N. Y.

Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2.00 to $10.00 each. Cycas revoluta, 50c to $1.00 and $15.00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII, DRACO and AUSTRALIS, 2½-inch pots, $4.00 per 100; 3-inch pots strong, $5 to 18 inches $8.00; 4-in. pots, strong, $12.00. For other varieties of Dracenas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

The Cultivation of Mushrooms.

The following standard works will be sent post free on receipt of price:

MUSHROOM CULTURE	Robinson.	$.50
MUSHROOMS How to Grow Them.	Falconer.	1.35
MUSHROOMS FOR THE MILLION, 16 pages.		Free.

JOHN GARDINER & CO.,

Seed and Bulb Growers, Importers and Dealers,

Philadelphia, Pa., U. S. A.

FUCHSIAS.

WANTED Cuttings, or Rooted Cuttings of SUNRAY. Any number up to 50. Write

THE GARDENER,

Box 558, Alameda Co., Oakland, California

Two Superb Plants.

ANTHURIUM SCHERTZERIANUM (Flamingo Flower.)

A grand scarlet flower of great substance and durability; when cut will last for weeks; long stems; grown easily as a calla. Two year old seedlings from one of the finest varieties in Europe, will bloom this winter.

3½-inch pots, Dozen, $6; 100, $40.

Extra strong plants, $1 to $50 each.

ASPARAGUS PLUMOSUS NANUS.

This elegant plant has no rival for cutting. Strong, in 3½ inch pots, per 100 $40.00.

12 HANDSOME PLANTS for DECORATION at ONCE, $6:

ARECAS, COCOS, DRACÆNAS, ASPIDISTRA, Etc., Etc.

in 5 & 6-inch pots, 1 to 2½ feet, according to sort. F. O. B. same day as order received.

JOHN H. LEY,

TROPICAL NURSERIES,

ANACOSTIA, WASHINGTON, D. C.

ORCHIDS.

THE FINEST STOCK IN THE WORLD.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Orchids.

BRACKENRIDGE & CO.

CANE STAKES.

Established 1864. **Govanstown, Md.**

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

JUST ARRIVED!

LILY of the VALLEY

Prime 3 year old Hamburg Pips, $10.00 per 1000; $1.25 per 100; in case lots of 3000 $9 00 per 1000; in lots of 10,000 and upwards, $8 50 per 1000, to close out.

10,000 Paper White Narc. Grandi.

The true large flowering variety, extra size bulbs, $8.00 per 1000; $1.00 per 100.

Immortelles.

Fine French purple, cherry red (open or berry) or assorted colors, $26.10 per 100 bunches; 30 cts. each.

Cape Flowers.

Large and white, short stemmed, 50 cts. per lb.; in case lots, 45 cts. per lb.; choice white, long stemmed, $7 00 per 10,000; 75 cts. per 1000; assorted colors, long stemmed, $1.00 per lb.

Pampas Plumes.

24 inches and up, natural.....$ 6 per 100; $ 1 per doz.
24 inches and up, asst. colors... 10 " 1.50 "
Other Ornamental Grasses in various colors, 50c. lb.

A full line of **Porcelain and Metal Wreaths, Crosses, Etc.**, at lowest prices. Satisfaction guaranteed if selection is left to me for any stated amount For other supplies for the HOLIDAYS, see Catalogue. Terms Cash.

Address **J. A. DE VEER,**
154 East 34th St., New York.
Mention American Florist.

Bulbs. Bulbs. Bulbs.

At these low prices for the next 30 days only. CASH WITH ORDER.

		Per 100	Per 1000
Lilium Auratum,	7 to 8 inches,	$ 3 50	$25.00
" "	8 to 10 "	4 50	35 00
" "	10 to 12 "	8.00	70 00
" Album,	7 to 8 "	6 50	55 00
" S. Album,	9 to 10 "	7.50	65 00
" S. Rubrum,	7 to 8 "	4 50	35 00
" S. "	8 to 10 "	5 50	45 00
" S. "	10 to 12 "	7 50	65 00
" Longiflorum	4 to 5 "	1.75	12.50
" "	5 to 7 "	2.50	20 00
" "	7 to 8 "	4 00	35 00
" "	8 to 9 "	5.00	40.00
" "	10 to 11 "	5 50	45 00
" Tigri. fl. pl.	5 to 6 "	5.00	45.00
" Krameri,	4 to 5 "	5.00	41.50
" Atropurpureum,		5 00	
" Coridion,		2.50	
" Batemanni,		4 50	

Other varieties on application.
CYCAS REVOLUTA, best long-leaved variety, from 6 inches to 6 feet, 10 cts. per lb. Discount on larger orders.
CYCAS CIRCINALIS by January, '92. Price on application.
Rhapis flabelliformis, 25c. to 45c. per shoot.
CAMELLIAS, from $25.00 to $60.00 per 100.
Send for new Catalogue.

FELIX GONZALEZ & CO.,
303 to 312 Wayne Street, SAN FRANCISCO. CAL.
Mention American Florist.

KAE SHEAN CO.,
Growers of CHINESE SACRED LILY,
HONG KONG.

Goods can be obtained at the following houses:
John L. Childs Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R Pierson.....Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

LILIUM HARRISII.

Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

LILY OF THE VALLEY PIPS.

100,000 Berlin, extra selected quality, offered for sale, to arrive in quantities per case to suit, at $9.00 per 1000.
Special prices to the trade, as to quantity.
C. C. ABEL & CO., New York.

G. J. MOFFATT,

Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN. CONN.

GARDINER'S BULBS.

Many rare and beautiful varieties suitable for winter flowers may be secured now at a greatly reduced rate, as we must make room for spring stocks. Everything we offer is guaranteed sound, and of first-class quality.

CLEARING SALE.

This week we offer a revised list of Surplus Stock, containing many sorts that were crowded out of our last week's announcement, and omitting the varieties that have been sold out. Let us hear from you early as stocks are MOVING VERY LIVELY at the figures we have marked on them.



Get Good Bulbs, i. e. Gardiner's Bulbs, and you are pretty sure to have "good luck."

	Per 100	Per 1000
Anemone fulgens, seedlings (new)	$2.00	$.....
Anemone, single mixed	.80	7.50
Anemone, double mixed	1.00	9 00
Anemone, single white, blue & scarlet	1.00	9.00
Anemone, Beauty of Cannes, white and scarlet mixed	1.50	
Anemone, new chrysanthemum flowered, French, 5 named varieties	10.00	
Amaryllis rosea (Zephyr Flower)	2 50	22 50
Chionodoxa (Glory of the Snow)	1.25	12.00
Cooperia (Texas Zephyr Flower)	4.00	
Eranthes (Winter Aconites)	1.20	
Hyacinths, double, pure white (Dutch)	3.00	
Hyacinths, double, yellow (Dutch)	3.00	
Named Dutch hyacinths, single and double, 87 varieties, including many expensive sorts, a great bargain	6.00	55.00
Persian Iris	2.75	25.00
German Iris	4.00	
English Iris	2.75	
Ixia crateroides	1 50	
Ixia viridiflora	3.50	
Lily of the Valley (clumps)	15.00	
Lily of the Valley (pips, Dutch)	1 00	7.00
Lecojum (Spring Snowflake)	2 50	
Daffodil Trumpet Princeps	1 85	17.00
Daffodil Trumpet Major	1.85	17.00
Daffodil Tenby Trumpet	1.85	
Named daffodils, 10 choice varieties, new and rare sorts, such as Ard Righ, Cernuus, Leedsi, William Wilks	6.00	55.00
Double Roman Narcissus	.85	
Chinese Sacred Narcissus	7.00	
Ornithogalum Arabicum	2.00	
Oxalis Bowiei, single and double, yellow and mixed	1.50	
Ranunculus, French, Persian & Turkish	.85	7.50
Sparaxis	.75	6.00
Tritonias, mixed	1.00	
Tritelia unifiora	.75	
Tulips, single, 20 fine named varieties	1.50	
Tulips, single, late mixed	1 00	
Tulips, double dwarf mixed	1.00	7.50
Watsonias, mixed	4.00	

A LATE ARRIVAL: ENGLISH HYBRID IXIAS.

If you haven't tried the new English Hybrid Ixias you hardly know what Ixias are. Far superior to the old sorts. Millions are now grown for Covent Garden. $9.00 per 1000. Address all orders and correspondence to **21 North 13th Street, PHILADELPHIA, PA.**

JOHN GARDINER & CO.

CHRISTMAS ROSES.

THE LARGE WHITE FLOWERING VARIETY.

Orders are now booked for fall delivery. Having the largest home-grown stock in the world, and in splendid condition, I can do them well. Last year the large size produced over seventy flowers. For several years they have given the greatest satisfaction to my customers.

Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
2nd size	14.00	"	115.00	"
3rd size	10.00	"	72.00	"
4th size	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000).	2.50	"	23.00	"

Unknown correspondents are requested to add cash or good European references with the orders Orders can be executed at once. Special prices for bulbs and plants on application.

HERMAN BUDDENBORG, BULB GROWER,
Hillegom, - - Holland.

4,000 Adiantum Cuneatum, 6-in. pots, $35 per hundred.
15,000 Chrysanthemums, fine plants.
Rooted Cuttings of Roses, Carnations, Violets, Geraniums, Chrysanthemums, Coleus, Alternantheras in all the leading varieties.
10,000 Rose plants, prices on application.

A. N. PIERSON, Cromwell, Conn.

Fresh Smilax Seed,

60 cents per Ounce.
A. G FEHR,
No. 220 E. Main St., Belleville, Ill.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
SMILAX, 2½-inch pots	$1.50	$12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CHRYSANTHEMUMS, large stock plants in variety	20.00	

Address **J. G. Burrow,**
FISHKILL, N. Y.

Planting Now for Christmas Flowers.

What shall we do with that class in the trade who order stuff out of season and then kick because it didn't pan out according to their expectations?

What do you think of a party ordering at this date (Dec. 1) field grown carnation plants, violet clumps and forcing roses, all to be benched and grown for Christmas flowers? Yet we had such an order, and just such fool orders are not at all uncommon.

Result: Plants arrive, are planted, no flowers for Christmas. Then come kicks. "My plants had the best of attention, but I did not sell a dollar's worth of flowers from them. Think the stock must have been diseased," etc., etc.

What think you of people who order Pandanus Veitchii and other tropical stuff shipped in refrigerator cars, by freight, to the wild and wooly west at this season of the year, the stuff to be possibly 10 or 12 days en route?

Can't these people be made to understand that *money is saved* by getting stock in season or not at all.

There is money saved, worry saved and life extended, by doing greenhouse work at the right time. ZINGIBER.

[Language is inadequate to express our thoughts regarding any one who will undertake to bench roses, carnations and violets on Dec. 1 and expect a Christmas crop from them. Certainly such cannot be readers of the FLORIST. But there are a great many in the trade who should ponder on the last paragraph of the above communication. There is concealed in those few words a big solid chunk of wisdom. But the great failing of humanity is not ignorance but neglect to profit by what they really do know.—ED.]

Removing Paint Shading From Glass.

Can some reader of the FLORIST tell me of some better way to remove oil paint shading from glass than lye wash?

J. S.

THE AMERICAN FLORIST CO.

WILL PUBLISH A

CORRECTED EDITION OF THE

DIRECTORY

OF

FLORISTS, NURSERYMEN AND SEEDSMEN

of the United States and Canada

FOR 1892

ABOUT JANUARY 1, NEXT.

We shall cover the whole country by correspondence and compile an entirely new list which will be as nearly correct up to date as it can possibly be made. But in addition to this we invite corrections from anyone in the trade.

As usual, we shall devote some of the pages to advertisements. Rates given on application. The price of the new book will be $2.00.

SEND IN YOUR ORDERS NOW.

AMERICAN FLORIST CO., CHICAGO.

TUBEROUS BEGONIAS.

LARGEST STOCK IN AMERICA.
BETTER THAN IMPORTED GOODS.

SINGLE. { MIXED, SELECT. . . . per 100, $7.50
" " (small tubers). . . . " 4.50
Choicest Seedlings, equal to named flowers, in 12 distinct colors and shades per doz. 2.50

DOUBLE. { MIXED. . . . per 100, 10.00
" " (small tubers) . . . " 6.00
In distinct colors, White, Rose, Pink, Scarlet, Crimson and Salmon. per doz. 2.50
Choicest select Seedlings, in 12 distinct colors and shades " 4 co

SEED.

Our seed this season is extra fine; saved from our collection of over 200 named varieties, all carefully hybridized. We guarantee it not to be excelled by any Foreign house. January is the best month for Sowing.

SINGLE OR DOUBLE, mixed trade pkts. $1.00
SINGLE TO COLOR, White, Yellow, Rose, Pink, Salmon, Scarlet, Buff, Salmon Rose and Fancy. . . . (Nine colors, $4.00), per pkt. 50 cts.
DOUBLE COLLECTION, 10 named varieties. . . . $5.00
SINGLE VARIETIES by weight. . . . 5 grains, $2 00, 1-32 oz. $5.00
DOUBLE " " " . . . 5 grains, $3.00; 1-32 oz $7.50

New Descriptive Catalogue ready about January 1st.

F. J. MEECH & SON, CHARLEVOIX, MICH.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

CHOICEST CHRYSANTHEMUMS.

TRADE LIST OF NOVELTIES AND OLD VARIETIES NOW READY. STOCK STRONG, TRUE TO NAME. PRICES LOW.

T. H. SPAULDING, ORANGE, N. J.

VERY CHEAP TO MAKE ROOM.

	Per 100
4000 SMILAX, nice, 2½-in. pots, ready to shift	$ 1 25
1000 PRIMULA OBCONICA, strong, 2½-in. pots	2 50
1000 AMPELOPSIS VEITCHII, strong 2½-inch	2 50
500 DOUBLE SWEET ALYSSUM, nice, 2½ in.	2 00
1000 VIOLETS Marie Louise, strong clumps	4 00
2000 BEGONIA METALLICA, good, 2½-in. pots	3 00
1000 BEGONIA ALBA PICTA, good, 2½-in. pots	3 00
1000 BEGONIA LOBATA VAR., good, 2½-inch	3 00
500 BEGONIA RUBRA, ALBA and SAUNDERSONI, 3-inch	3 00
5000 COLEUS, well assorted; GOOD sorts, 2-in.	2 00
1000 ROSES Cath. Mermet, nice, 3-inch pots	5 00
500 ROSES Marechal Niel, nice, 3-inch pots	6 00

Address N. S. GRIFFITH,
INDEPENDENCE, MO.
(Independence is well located for shipping, being 8 miles East of Kansas City, Mo.)

Rooted Cuttings of
PETUNIAS AND VERBENAS.

We have all the orders we can fill to JANUARY 15th. Orders received will be booked and filled in rotation as received as soon as possible.

We have no price list, but use this space to let you know what we have. Of most sorts the color is printed on the label. We have now ready Ageratum White Cap, and a good blue sort; Alternanthera p major and aurea nana, and Cuphea (cigar plant), for 50 cts. per 100 by mail. By Dec. 20 will have 10 varieties of Geraniums, $1 20 per 100 by mail; $1.00 by express.

Cash with order. Not less than 10 of a kind.

S. O. STREBY,
Lock Box 77. *UPPER SANDUSKY, OHIO.*

Clematis. Roses.

H. P. and Monthly, both pot and outdoor grown, good assortment, own roots, fine plants.

CLEMATIS, fine, well grown plants in choice assortment. Plenty of Jackmanii.

Prices very low, on application.

F. A. BALLER, BLOOMINGTON, ILL.

STOCK PLANTS OF
CHRYSANTHEMUMS.

JESSICA once more to the front. Those that had it, wished they had grown more. Those that had none, wished they had it.

NOW IS THE TIME TO ORDER STOCK PLANTS.

We offer Stock Plants of Jessica, 25c each; Rohallion, the grand new early yellow, 25c.; Mrs Gerard, the earliest large pink, 25c. The best flowers of this variety wholesaled at 50c. each in the New York market.

These three varieties have now flowered and are ready for shipment. All other commercial varieties on hand and ready as soon as flowers are cut.

Orders filled in rotation. Do not delay ordering if you want these varieties as stock is limited.

THE OAKLAND ROSE NURSERIES,
BAY SIDE, L. I., N. Y.
Mention American Florist.

Jessica in the Lead.

This white variety was recommended by Mr. J. N. May, Summit, N. J., last year. This Chrysanthemum I grew this fall, and cut my first blooms Oct. 2, they being from 6 to 8 inches across. Also an immense stock of Gloriosum and L. Canning.

$2 a dozen; $15 a hundred.

ROBT. LUEPKE, E. Liverpool, Ohio.

GERANIUMS, COLEUS AND CHRYSANTHS.

BEST VARIETIES

ROOTED CUTTINGS.

SEND FOR LIST.

S. B. FIELD, Roselle, N. J.

Tuberous Begonias.

Splendid strain, extra fine habit, perfect flowers, unrivaled for variety and brilliancy of colors.

TUBERS, per 100, 1000, or 10,000, offered by

ZOCHER & CO., Haarlem, Holland.

YOUNG BROS.,

WHOLESALE ❋ FLORISTS,

20 West 24th Street,

NEW YORK.

Thos. Young, Jr. CONSOLIDATED. **John Young.**

The Largest Wholesale House in the Country.

AGENTS FOR THE BEST GROWERS. **FLOWERS SHIPPED TO ALL POINTS.**

You Can't Afford to do Without the

SNOWFLAKE DAISY

DON'T depend on us for the cut flowers, every flower we can cut is sold now, and as many more if we could get them; there is and will be a pressing demand for this inimitable flower; a few hundred pot plants still on hand, 3-inch, $5 00; 2-inch, $3 00 per 100 **5 000** clean, thrifty plants in flats, coming into bud and blooming, $2 50 per 100; $20.00 per 1000, (no more clumps). 1000 Bouvardia Davidsoni, 200 Mrs. Cleveland, (crimson), 200 Multiflora Pinks, $2.00 per 100. Variegated Vincas, field grown, 5 to 10 vines, 4 feet. $6.00 per 100; 3 to 5 vines $4 00 per 100. Eulalia Zebrina and Japonica, fine stock, first size $10 00; 2d size $8 00 per 100. Chrysanthemums, finest vars., 4-inch, $1.50, 6-inch, $2, 7-inch, $3, 8-inch, $5 per doz.; also **Cut Blooms** at 40-50c per 100, all colors. Early flowering Moonvines, 2-in, $3 per 100. No risk, satisfaction guaranteed or money refunded.

J. C. GIBSON. WOODBURY, N. J.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

GEO. W. MILLER,

WHOLESALE ❋ FLORIST,

1748 N. Halsted Street,

Chicago, Ill.

ROSES AND PALMS A SPECIALTY.

Double White Primulas.

Fine plants from 3-inch pots, in bud and bloom, at $8.00 per hundred.

Address **A. R. REINEMAN & BRO.,**

39 Fifth Avenue, Pittsburgh, Pa.

SWEET PEA SEED. NEW CROP. FINEST EVER GROWN.

WHOLESALE.

1890—VARIETIES.		1891—NOVELTIES.	
1 to 100 pounds	Orange Prince	1 to 20 pounds	Splendor
" "	Princess of Wales	" "	Apple Blossom
" "	Isa Eckford	" 5 "	Captain of Blues
" "	Crown Princess of Prussia	" "	Queen of England
" 10 "	Boreatton	" "	Delight
" 100 "	Cardinal	" "	Mrs. Gladstone
" "	The Queen	" "	Purple Prince
" "	Duchess of Edingburgh	" "	Primrose
" "	Butterfly	" "	Mrs. Sankey
" "	Nellie Jaynes	" 10 "	Mixed
" "	Alba Magnifica		
" "	Fairy Queen		
" 500 "	Mixed		

Write for prices. True to name. Splendidly matured. Contracts for future delivery. Send for sample of seed

SHERWOOD HALL NURSERIES, MENLO PARK, San Mateo Co., CALIFORNIA.

C. H. JOOSTEN, IMPORTER, 3 Coenties Slip, NEW YORK.

ORDERS NOW BOOKED FOR FALL OR SPRING IMPORTATION FOR

HARDY ROSES, CLEMATIS, AZALEAS, ETC. from the Boskoop, Holland, Nursery Association.

Also NURSERY AND FRUIT TREE STOCKS from LENAULT HUET, USSY, FRANCE.

Catalogues on application. **C. H. JOOSTEN.**

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:

25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other

PLANTS FOR FORCING AND DECORATING.

Address **P. OUWERKERK,**

P. O. Box 1845, NEW YORK CITY.

Catalogue on application.

WATER LILIES.

15,000 Nymphæa odorata rosea,

AND ALL THE OTHER LEADING SORTS.

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Several times of late it has been asserted in your columns that crude petroleum was an excellent thing to apply to greenhouse benches to preserve them from rotting. I can not speak from personal experience on the subject, but have been told by those who have used it and have also read that it is useless and adds no length to the age of a bench, and am inclined to believe that the latter opinion is the true one, for in a year or so the oil is entirely evaporated.

About ten years ago I read, dreamed or discovered that water lime (hydraulic cement) was a great preservative of wood and I am sure I have saved several hundreds of dollars by its use. The life of a common pine or hemlock bench one inch thick is with me about four years, used for ordinary purposes. Nine years ago I first tried the cement on a bench which has been used summer and winter ever since, some times with six inches of sod, other times with sand and ashes. That bench has never had a board repaired in it for nine years and I think it is good for another year at least. It is safe to say the cement will preserve a bench twice as long as without it. The expense is not worth considering. It costs here (in Buffalo) $1 per barrel and a barrel will do at least 3,000 square feet of bench surface. It should be put on just as thick as it can be spread with a whitewash brush and not much mixed at a time as it soon "sets" in the bottom of the pail. It is time and money well spent to apply it to all parts of the benches, tops of the legs, surface of the cross pieces, in fact wherever the wood comes together. With a little common lime added it is an excellent thing to put on the inside surface of greenhouse walls. It makes the walls plenty white enough and will long outlast paint or common whitewash made of quick lime. Why the cement should be an excellent preventive of rot is I think plain to see. The particles of cement entirely fill up the surface pores of the wood and stop there and prevent water from getting in.

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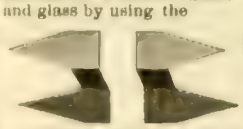
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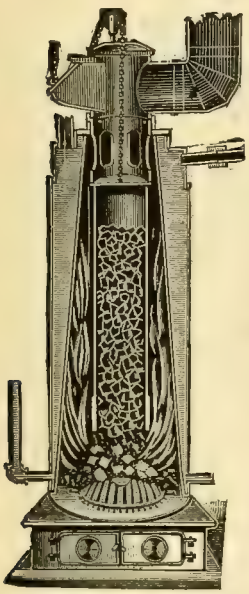
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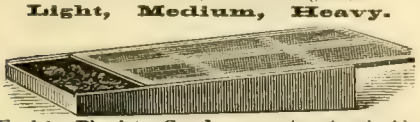
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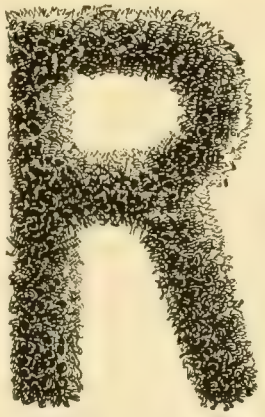
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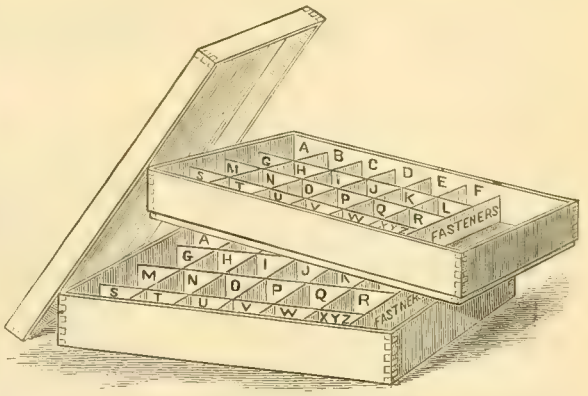
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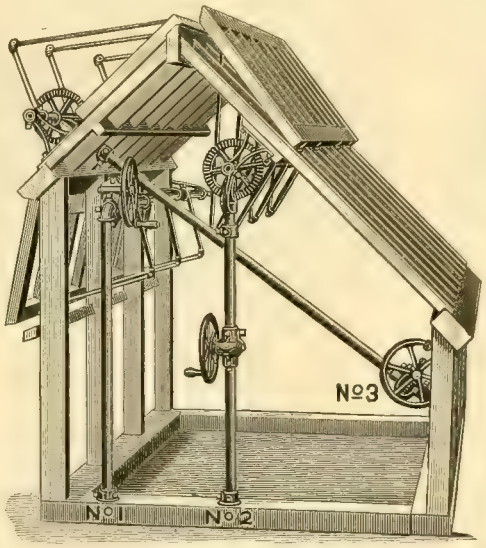




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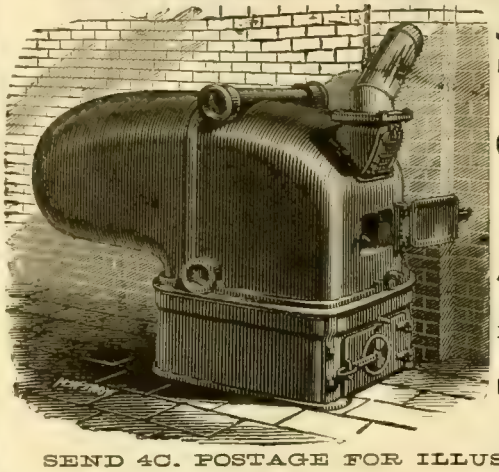
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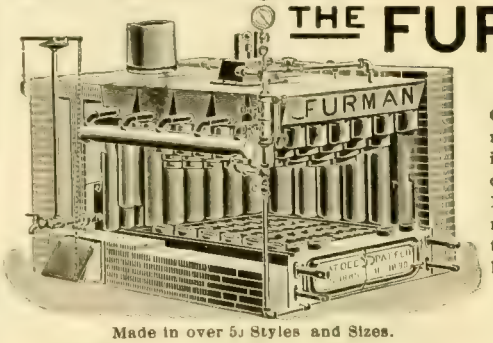
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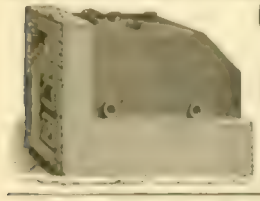
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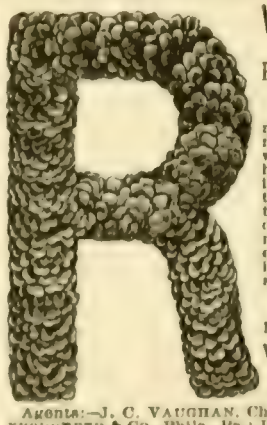
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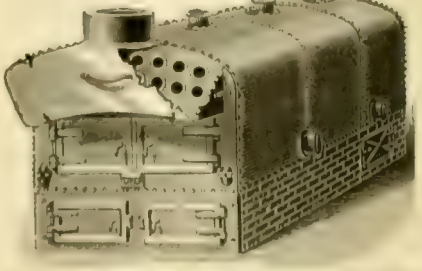
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Positive Primary Color in Flowers.

We are all of us quite anxious to know something about color for its *own sake*; we wish that there could be something we knew positively about it, so that there could be no shadow of doubt in our minds, no lingering uncertainty. I fear we ask a great deal even in asking so little. There does not seem to be any absolute certainty even among those who can speak with authority about color, and as the old saying goes:

"Who shall decide when doctors disagree?"

Sometimes it becomes imperatively necessary for us to decide matters for ourselves and learn to be self-reliant—yet we crave high authority as the ancient Hebrews did a king, only to find themselves when possessed of one in no way bettered, but rather a little worse for the experience. However, experience is a great teacher and we have a vast amount of knowledge of the snags left behind us when experience is at the helm.

I do not know how much I may have learned from the scientists who have written about color, but I *do* know that I learned a great deal from experience and practice with the colors themselves; and flowers, even more than paints, have proved the best medium through which that knowledge has been attained.

But the positivism of color, how can we know of that? We say this violet is blue, that rose red, yonder marigold yellow. What do we mean? The assertion is specific and positive. Twenty red roses possess twenty different tones of red, and even the one to which we point has more than a dozen tones of red in its composition. It is all very bewildering; yet we are positive that the rose is red and what is more, the scientist says so and further gives us an elaborate analysis of all the different tones of the *one* color we are anxious to designate by *one* definite name. We are continually asking which is the pure red or the pure yellow or the pure blue flower, when not even the scientist would dare designate the flower without mentioning some contingency.

In my opinion, if it is our wish to become well acquainted with color, particularly flower color, we will do best to study it from the artistic and not the scientific point of view. It is perfectly true that up to a certain point, which includes fundamental principles, the scientific study of color is very helpful and necessary, but beyond this point the paint-box and not the laboratory is the most fruitful field for yielding solid, practical and valuable results. No possible knowledge of the composition of color will enable us to place together two or more colors which are artistically harmonious; and this above everything else is just what we all of us want to learn how to do. Even our anxiety to obtain definite names for definite colors is completely overshadowed by the stronger wish to understand the secret of their harmonious relationship.

Now let us try to discover if we can some small portion of this secret. Why is it that nature nearly always puts yellow stamens in her white flowers? Why is it that nearly all of her white flowers are *not* a colorless pure white? Why is it difficult for us to find a positively blue or positively yellow flower? What is the reason that there is such a multitude, such an infinity of color tones in the flowers, on the earth, over the sea, in the sky, everywhere? What a perplexing, changeable, evasive thing the whole world of color is! What is the reason of it all? Simply this: Nature abhors the commonplace, she despises crude red, yellow and blue. Variety she *will* have; harmony she insists upon; positivism she only employs to emphasive her love of the infinite. Thus, we have one rather questionably perfect yellow marigold and a dozen others, which have more orange in them than yellow; one scarlet-lake colored gladiolus and an infinity of red roses, which cannot be called anything which is an approach to the pure red color which scarlet-lake nearest resembles. We have the forget-me-not, which is nearly a true blue, but we have a host of so-called blue flowers, every one of which has barely 50 per cent of the true sky-blue in its composition.

It seems as though in the face of these facts it would be hardly possible to designate any special flowers which possess the so-called primary colors in an absolutely pure form. Yet, notwithstanding this difficulty, there are innumerable hosts of flowers which possess color sufficiently positive to merit distinct names. The Cullingfordii chrysanthemum is undoubtedly a rich maroon-crimson color; the inside of the petal of the Jacque rose is even a richer and deeper crimson. The common buttercup is nearly yellow, but would better be specified as a golden yellow flower; the inside lining of its petal is so heavily varnished, or rather burnished, that the reflection from petal to petal produces a yellow encroaching on the orange tone, but for all this there is an individuality and positivism about the buttercup's color deserving the standard name of golden yellow. Then there is the blue violet—blue only in name, because the purity of blue as we see it in the sky at an angle of 45 degrees from the sun on a clear day has no place on the violet's petal. There is some red in the violet's blue, in short we would better speak of this color as violet-blue. There are eyes as blue as violets, but the *bluest* eye must be as blue as the sky.

There are greens in abundance, names for them, too, significant and appropriate. We are accustomed to the terms, pea green, apple green, olive green, emerald

green, sage green, Nile green and grass green. How utterly unlike each other are all these tones of one color, yet which one shall we designate as the standard green? Emerald? Yes, perhaps so. But the so-called emerald green in my paint-box is no more like the color of the precious stone than the lamp light is like electric light. For that matter I am not sure that either the precious stone or the pigment are in color anything like the green seen in the solar spectrum and it is from the *spectrum* that we are supposed to obtain our authority in the question of color.

All this shows us how far we can rely on a name. For my own part, as an artist, I always refer the name emerald green to the pigment in my paint-box and *never* to the precious stone. The pigment never varies appreciably in tone and conveys to my mind a positive idea of a certain color. Therefore I am prone to consider it a standard green. Now, when I say that I know of no vegetable green exactly like my paint called emerald green (taking it for granted that the latter *is* nearly like the spectrum green), I think that I have covered the whole ground in this argument about the *want* of positive primary color among flowers. Nature is elusive and perhaps coquettish; she makes the emerald green in my paint-box a positive necessity, if I would copy the curling wave of the ocean, the dainty yet strong stem of the calla, the neck of the peacock, the stretch of river meadow in spring and the depths of the maple shaded pool at the edge of the wood; yet it is an actual fact that I cannot put my finger on, or in, any one of these objects and say decisively *this* is emerald green and therefore a pure green.

We are so far convinced, perhaps, that the positive in color is in a great sense a limitation. So we may comfort ourselves with the thought that the simplest positive colors never seem to harmonize with each other; they are, to tell the truth, too complete in themselves. If we will take the trouble to place together some of our red and blue flowers, say red roses and blue iris or violets, or some of our yellow and red flowers, say marigolds and red gladioli, we will not need to explain why such flowers do not look well together. The experiment will be a sufficient answer; the color combination will be so crude that we will instinctively effect a separation of the belligerants as soon as possible.

If it is the fact that such powerfully colored flowers do not agree well with each other, what are we to do with them? That is not a difficult question to answer. Your Jacque roses have all the supplementary color they need in their own beautiful green foliage; a large mass of them, a glorious group where the intense glowing red is broken slightly with a deft bit of green is all sufficient; such flowers in a simple large bowl or tall vase would attract greater notice than any costly made up affair.

How characteristic, too, and complete in itself is the stately calla, and what a mistake to allow its association with any other company, no matter how fair; the green stalk and the graceful leaf each need attention and should not be hidden by massing the flowers as we might have permitted ourselves to mass the Jacque roses. Here we may permit ourselves the use of a tall cylindrical yellow vase, if there is one to be had, and the pretty golden spadix of the flower will be harmoniously supplemented by the yellow crockery. The calla even though it is white possesses something very positive both in form and color effect and I have never seen it used judiciously with any other flower.

The Jardin des Plantes and the Cullingfordii chrysanthemums are each strong colored beauties which it would be best to leave to their own power of color; there is no advantage to be gained in mixing either white with the gorgeous yellow flower or pale crimson with the wine colored flower; invariably these two varieties of chrysanthemums will look best alone; only the blue and white Japanese vase or the tall, dull brick-red jar can contribute any additional color without injury to the flower itself. I do not say that some other arrangement for these positive colored flowers will be an artistic impossibility; I simply suggest what seems to me to be the best plan for treatment of their strong color effect.

There is one principle or theory which it is always safe to assume in the treatment of color in flower groups; that is this: Delicacy and strength do not look well beside each other. Your dainty, airy, pink poppy has nothing in common with your rich crimson dahlia. The two flowers are out of tune one with the other and the result is discord.

When once we discover the secret of harmony among a *few* flowers we shall have obtained the strong wedge wherewith the formidable log of the "color question" can be split in sunder.

F. SCHUYLER MATHEWS.

Louis Menand.

Who in the trade has not heard of Louis Menand? He has been a commanding figure in American horticultural circles for so many years, and his voice when heard has been so uniformly for what is truest and best in our art, that he has been aptly named "The grand old man" of the gardeners' craft in this country.

Mr. Menand is now in his 85th year and as he came to America in 1837 he enjoys a retrospective view of American horticulture that extends over a period of nearly 55 years—over half a century—and what wonderful changes have taken place in that time!

The venerable practitioner of the "Art that doth mend nature" is now living quietly at his home near Albany, N. Y., is still active and takes as keen an interest as ever in the profession he has followed and loved all his long life.

We have much pleasure in presenting in this issue a very excellent portrait of Mr. Menand, from a recent photograph, and the first of a series of papers embodying many interesting personal recollections which he has prepared at our request, and which we are sure will be of very great interest to our readers.

Personal Recollections of Louis Menand.

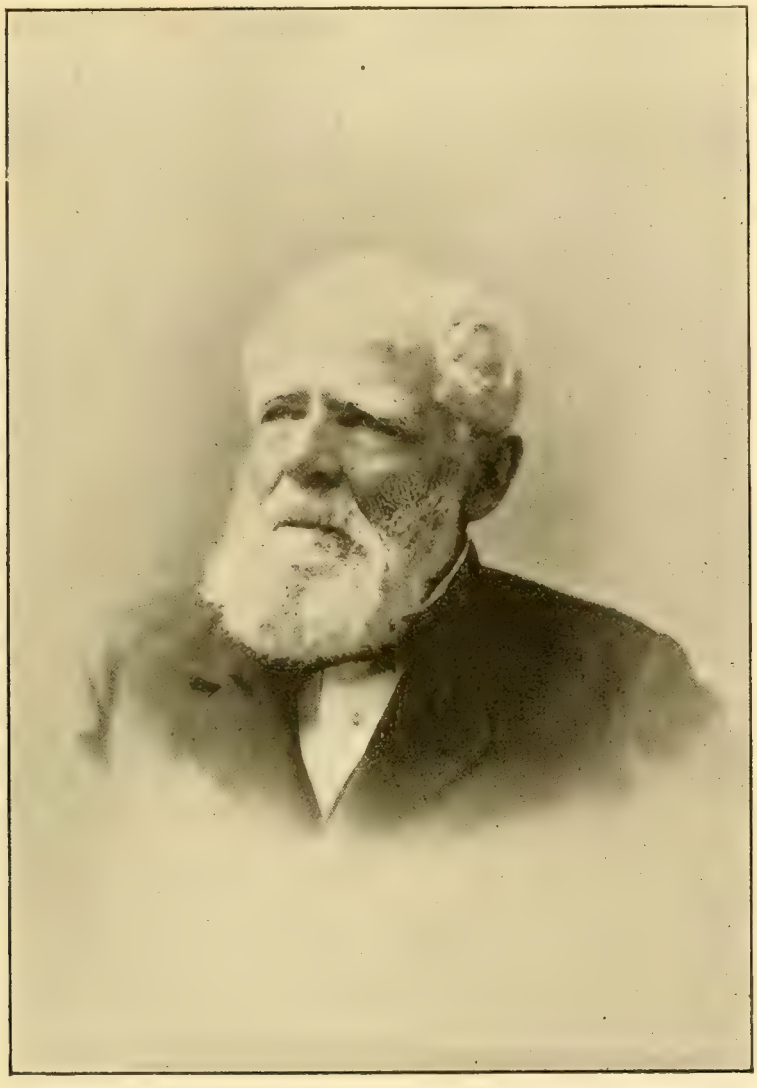
I.

I have been told that I was born on the 2nd of August, 1807, in the old province of France called Burgundy, a country noted for her good wine, probably one of the reasons I am more partial to wine than to whisky.

My father was a gardener and this somewhat accounts for my early love for horticulture. As far as I can recollect I was about 8 or 9 years old, more or less, when I began to try to grow plants from cuttings. I have always been fond of cutting! properly and figuratively speaking, except cutting my fingers! Besides, I was also very fond of reading books treating of gardening operations, especially the nomenclature—long names that I learned by heart, as parrots do, without knowing the meaning, which constitutes a poor learning. However, later in life I have found these words very useful. I found that "words lead to the knowledge of things." One thing I have never been able to learn is mathematics—I mean that lateral branch of it, "arithmetic," the science "par excellence." Even to-day, with more than three-quarters of a century of - - - - I can not comprehend the mystery of the Trinity! Yet, I have always been able to count the money that has passed through my hands.

Excuse me this digression, and I return to my propagation that I continued to practice until I lost my father. Then I was between 15 and 16 years old, perhaps a little more, I can not ascertain exactly. All that I am certain of is that I remained with my mother and sister until the month of March, 1827, when an idea—many ideas got into my head—that I was old enough to "think for myself" came to me, and that it would be serviceable to know the *sense* of all the words I knew by heart. One thing I knew by experience—the culminating one—that the steeple of my village did not afford me shade or protection enough, or rather too much of it, for I foresaw that ultimately it would "etiolate" my conceptions in the bud! Then I at once came to the conclusion to leave my Penates, my Lares and my other household gods and move to the "capital of the civilized world"—according to the general idea of the French, but not exactly to mine—which was and still is cosmopolitan.

Paris, then, for me was an "Eldorado" where I thought in my puerile innocence that every one was, or ought to be, a philosopher! - - - - or something of that sort. Ah! what a philosophy!! you will soon see. In a few days after I had decided to leave my home I was in Paris, in company with a philosopher! I got acquainted with in the stage-coach, who kindly offered me his services, as he supposed I would not know where to go at such time of night—10 or 11 p. m. When we got out of the stage he hired a cab and told me he was going to carry me to his *hotel!* Before getting into the cab the first sight I had of Paris was such a fog as I had never seen before and never have since. The Parisians called it London fog. I think I could have cut a slice off it. In a few minutes we reached that hotel! located in a narrow, gloomy, dirty street in the "city"—the old Paris—within a few hundred yards of Notre Dame, that church so graphically delineated by Victor Hugo in his wonderful book "Notre Dame de Paris." That hotel looked to me paltry, dirty, cutthroat, etc., etc. That *den* a few years later became famous from having been the spot where the social —— romancer "Eugene Sue" introduced his hero and heroine: Prince Rodolphe and Fleur de Marie, in his marvelous book "Les Mysteres de Paris." I took supper that night and in the morning breakfast bought from a restaurant, with my "cicerone," and never saw him again but six months after by chance in the "Champs Elyses." He made an apology for not having *warned* me of what I would see in that Hotel *du Diable*. Notwithstanding his living in such atmosphere that man was an honest man, for it was on his recommendations, etc. that nothing had happened to me. I slept three nights there. In the day time I ran through the city to deliver some letters of recommendation, etc. During those



LOUIS MENAND

three evenings and nights I learned more than I did thereafter in 10 years.

The same day I left that vestibule of hell I went to take possession of a situation as an assistant gardener in one of the most aristocratic suburbs of Paris, with a different breed of philosophers. There I was somewhat in my dreamed-for element. Many green and hothouses full of rare plants; few of them I knew, except the *names* of some, but I could not apply the names to the plants, and when I attempted to ask the names of the head gardener—a sort of biped bear! he answered me: "You had better to mind your work, for if you have any ambition to be a gentleman's gardener you will do better to learn forcing vegetables," etc. etc. To that hint I replied that I thought it would be better to work for the people who carried on that business, and as I was among plants I wished to know something about them; that gentlemen who wanted forced vegetables wanted also plants, etc. He stared at me with a frown and told me to go to my work pointing with his hand to a certain hothouse; "there you will find that large plant in a tub, that has leaves the shape of a *gardener's trowel!*" - - - was not that description a philosophic circumlocution to avoid telling me the name of it? Inwardly—in my sleeves—I laughed, for I knew the plant and its name. So, as I was in contact with philosophers, I durst, I had the temerity to speak with my mouth open and with my heart also. I humbly replied: "I do not know exactly if I understand rightly; your description is somewhat novel to me and very picturesque. I think you mean the Strelitzia reginæ!" "Who told you that *Mr. The Doctor?*" he responded with a sneer that had a heinous look. From that I had won the sympathy of that charming man. Truly there was no love lost between us. I liberally reciprocated his sentiments toward me. I had been recommended to him by one of his acquaintances to whom I think he was under obligations and he did not like to say he did not want me for he was looking for a man. I thought that he hated me the first time he spoke to me.

When I went in that place I had some *local expressions* that were not very exactly the parent French, and I knew it, but the habit was sticking to me. However, I soon got rid of them—quicker than he had learned French orthography. A few days after the coining of that description of a leaf "like a gardener's trowel," he gave me a chance to retaliate. We were potting some carnations. A young man, with me, were potting, and *he* the "neologist" in *description* was writing the labels, and threw them to us on the floor where we were potting, bent on our knees—no potting bench; I supposed it was for the purpose of doing penance—it was in Lent time! (I feel that I am overstretching). I caught a label spelt wrong and as it was only a few moments since he had laughed at me I thought the occasion was a good one to reciprocate, so I told him that name was incorrect—in my village we spelt it with a double r. "You think so *Mr. The Doctor!*" "I do not *think*, I am *sure* of it!" On that affirmation he started like a runaway horse. The young man with me asked what was the matter with the boss. I told him, "I think he has gone to his room to look in his dictionary to see if I am right." What, right? That young philosopher somewhat belonged to the school of our boss, and thought it childish to get mad for one letter more or less, but he was a philosopher of the *quieta sect* and did not trouble himself any more about the incident. From that time our boss did not make any more jokes on my local expressions but did not like me any better. I remained under his sway about eighteen months, till August, 1828. This closed the first act of my debut in life. Then I changed, in one way for the worse, but every day adding something to my theories of life.

Magic and Flowers.

BY ROBERT KIFT.

[*Read before the Florists' Club of Philadelphia at the December meeting.*]

My first thought was tricks with flowers, but I finally concluded to treat the subject differently. As far back as history will carry us there have been magicians, wonder workers, men who were supposed to be possessed of supernatural powers, giving them a place high among the rulers of the nation. At the same time mention is made of the lavish use of flowers at the entertainments and feasts of the ancients, so that these subjects may be said to be linked together in history.

At the beginning of the world we learn of the beautiful garden of Eden, commonly supposed to contain all the varieties of flowers on earth. Adam has been called the first gardener, as he was placed there to enjoy the enchanting spot and keep out all intruders. Then the gardener was counted among the "upper ten," as Adam was married to the first lady in the land.

It is the enchantment, the magical effect that flowers convey with them that in a great measure makes our business. If it were not for the beautiful sentiments they arouse and are used to voice we fear that many a flower would bloom to "blush unseen" that is now the object of admiration.

"Bring flowers to crown the cup and lute;
Bring flowers—the bride is near;
Bring flowers to sooth the captive's cell;
Bring flowers to strew the bier."

"Flowers so blue and golden,
Stars that in earth's firmament do shine."

"In the cottage of the rudest peasant,
In ancestral homes where crumbling towers,
Speaking of the past unto the present,
Tell us of the ancient games of flowers."

"And with childlike, credulous affection
We behold their tender buds expand,
Emblems of our own great resurrection,
Emblems of a bright and better land."

We might continue to quote volumes of poetry and prose, for flowers have been the favorite theme of poets in all ages.

How often we hear the expression, "yours is a lovely occupation, surrounded continually by such beauty. If I had to choose a business I should certainly be a florist."

"All the praise that has been sung
Is justly due the flower,
But have *we* not some claim against
Some part in nature's dower?"

There is no doubt about flowers being beautiful; perfectly grown they compel admiration, they *make* a place for themselves and it is our business to keep that place filled. Herein lies the magic in the business. To change flowers into money—Ah! that's the trick. We are all magicians, performing our tricks with more or less success, and on the measure of our success depends our reward.

The loving swain's first attentions find expression in the cluster of flowers, blushingly ordered; the effect produced is cause for another and still another, until the best that nature yields is hardly good enough; finally comes the bouquet; presto! what a wonderful change the flowers have wrought, the lovely girl becomes a bride, and presto! another change, the swain disappears, we see him no more; there must be something wrong about the construction of a great many bridal bouquets.

"Oft has the poet's magic tongue
The rose's fair luxuriance sung."

The magicians of Her Majesty, the queen of flowers, are perhaps the most numerous. Their's is a grand calling, waiting on the queen (and what a wait some of them do have), looking for her to come, this way and that, because some one has told them or perhaps they have read about her journeyings in some book or paper. Finally after many disappointments and almost without hope they set out themselves to find her, carefully noting the surroundings as they go; they are after a while in the right path and soon their majesty's treasure box is open to them. But they must remain loyal subjects, carelessness or neglect will not be tolerated and is sure to meet with punishment. The magician of all ages has always courted royalty, to appear before the queen was the height of his ambition and success was almost sure to be crowned with any expressed wish. And so it is to-day. Those in favor with her royal highness, the rose, want for nothing; houses go up, acre after acre is added to their broad domains.

Among the magicians who have become famous through their experiments with the rose are Bennett of England—whose "Bennett," Laing and Her Majesty will ever be fitting monuments to his memory. His trick of turning a few plant into nearly $10,000 remains unequalled, while Prof. Klunder of New York juggled two blossoms of Her Majesty so successfully that they turned into more than their weight in gold.

Peter Henderson, one of our most brilliant performers, caught the golden hued Sunset from the Perle; it was fittingly named, as so soon after his light sank beneath the horizon.

To Magicians May and Taplin we are indebted for The Bride; this fact will ever place them in the front rank of their profession.

The rose is the queen of flowers, but the Bride is the queen of roses.

To the Messrs. Field is due all honor. These capital magicians have given us the American Beauty, a rose in many respects unequalled and more popular to-day than ever before.

We would like to speak of the wonderful transformation scenes which take place in the change of roses into gold; the great expectations that are rudely dashed to the ground; how the experiment fails for want of color (too much sulphur) and another calls the turn too soon and will not let the buds expand; another cannot stem the tide, as he will not cut them long enough and still another waits until the eleventh hour and finds the market glutted or perchance he finds that when he best could do the trick he has nothing to do it with.

But the magician who understands his business, knows just what the public wants and when they want it, is quick to see that this or that trick is not taking and changes his programme accordingly, has no failures, his productions are beautiful and the transformation a complete success.

The carnation wonder worker is about to try and turn his product into gold and this is the way he goes about it: The crop is on and so is the green-fly; to-morrow morning bright and early (so as to catch the first express) the flowers are to be gathered; to-night he smokes and smokes until he says, "surely no fly can live through that"; the flowers are gathered, shipped and received and the grower waits for his gold, but gets what? *Smoke.* The trick has failed. Again he tries, this time no smoke, but into boxes that have done duty at the grocer's he dumps his beauties rare and says "now see the change take place." But, alas! They were so exceedingly spicy that folks really sneezed at them and the magician hung his head. But every day the trick is done, and when done right it always takes. Who ever saw fine long stemmed carnations, with colors bright, the flowers well open, the fragrance unadulterated, but knew the master magician was there and almost saw the gold before the trick was finished.

Then there are the violet conjurers. They have their little trick and some of them do it well, while others in getting ready are in such a hurry they gather all the flowers in sight, plucking even the very babies from their mothers' arms, huddle them in with their older relations and hope everything will come out all right. Another says "that's no way; I can beat that all to pieces and they won't catch me at it either," and in good time when his beautiful large blue (excuse me, I mean purple) beauties are exposed there is a chorus of ohs and ahs. A delightful fragrance spreads abroad, the transformation immediately takes place and the magician is loaded with questions. "Won't you do it again?" "Tell us how you did it." And the next time he is watched more closely, but he continues to astonish his audience and they finally conclude after many surmises that it must be his location.

And so we might continue. There are other magicians that we might speak of, those whose province it is to finish off and complete the work. They have their transformation scenes and produce enchanting effects that are appreciated to a greater or less degree and are rewarded accordingly; but it behooves us all as magicians to see to it that as we go along we leave a record behind us that after the last grand transformation shall have taken place it shall be said of us, "well done."

IT HAS been suggested that a tabulated statement of the receipts and disbursements of the various exhibitions, in the FLORIST, would be helpful in making plans for the exhibitions of next year. We are quite willing to print such a statement if the organizations who gave exhibitions will supply the necessary data and doubt not that many interesting and valuable deductions could be made from the same.

SEND IN your order now for a copy of our new Directory, to be issued next month. Price $2.



Calanthe Culture.

In a recent issue of the FLORIST I called attention to calanthes as a florist's flower, and now I will endeavor to explain as fully as possible the treatment given them by one who never fails in growing them well, namely, G. McWilliam, gardener for Mrs. Lasell, Whitinsville, Mass. His plants this year present a more promising appearance than ever before and he is watching with great interest the flower spikes as they develop to see if they will beat their previous record.

In giving the treatment allow me to take for a starting point the bulbs after flowering. To those who already have some bulbs I would say, as soon as the flower spikes are cut, the bulbs, still in the pots they were grown in, should be placed away in some dry place where there is a temperature ranging from 55° to 60°, and may remain there until such time as they show signs of starting into growth. When this appears they should be seen to at once, and after shaking the old soil from the roots place them in pans or shallow boxes filled with moist sand, in some house where the temperature will be 65° or 70°, and where they will be close to the glass. There they may be left with safety until they begin to show roots, then they should be potted, for this, if deferred too long, is a dangerous operation as the young roots are very tender and easily broken. Great assistance is had from a few of the previous year's roots being left on the bulb, not because there is any vitality in them, but they keep the bulb, when potted, much firmer.

The size of pots needed has to be determined by the grower judging from the size of the bulbs. If the bulbs are large, 6 or 7-inch pots are none too large, with one bulb to each pot. In preparing the pots previous to potting select those having a good large hole in the bottom and fill them with potsherds, or if preferred charcoal, till within three inches of the top; but whatever may be used be sure to make the drainage good, for there is not anything that will cause the foliage to become spotted sooner than bad drainage and its usual result, sour soil.

This done, the next in order comes the potting material, which is very simple and at the command of most every one in the trade. It consists of fibry turf from which most of the soil has been shaken and well decomposed cow manure, in the proportions of about two parts of the former to one of the latter. With this compost fill up the pots till almost level with the top and be sure to make it good and firm, then place your bulb on top and enough to one side to have the young growth come as near the center as possible, thus giving it a better chance. To keep the bulbs securely in their place, which is a very important item, a small piece of stake is necessary, and may by some tying material be fastened to the top of the bulb, thus preventing them from getting raised by the roots pushing their way into the soil. After they have been secured some of the fine compost may be spread around the base of the bulbs to keep the young roots moist until they get a little established.

Having now completed all that is nec-

essary in potting they should be returned as soon as possible to their former temperature, for should the potting room be 15° or 20° colder a prolonged stay would be likely to chill the tender growth, and if once stunted, from whatever cause, all means used to remedy the evil that season would be in vain. Place them as before, near the glass, with the young growths all turned towards the light. From the time they are potted until they fill the pots fairly well with roots some care in watering is necessary so that the soil may not become either dry or sodden, but kept in a nice mellow condition.

When well established, weak manure water, either from the barnyard or guano water, may be given them safely five times a week, and this may be continued until they show signs of losing their foliage, a period when every alert gardener will see that less water is needed, for then the roots begin to be inactive and would only be injured by persistent copious watering.

To keep the foliage clean syringing overhead every bright morning will be found the simplest and best means. Shading at all times from the direct rays of the sun is necessary, for if allowed to strike direct the foliage will be burned and this will greatly check their future progress as well as injure their appearance. During hot days in summer it is impossible to keep the temperature of the house at 70°, but a rise of a few degrees by sun heat will not injure them if the paths are occasionally sprinkled.

As I have carried the reader over a whole summer's work I hope he may derive some benefit from this article even should he not choose to adopt this method of growing them. C. S.

Palm Notes.

Apart from their decorative value there are many members of this noble class of plants that will always occupy a prominent place among exhibition collections, the varied forms of their always graceful foliage entitling them to such distinction.

In fact some of our deservedly famous chrysanthemum shows would be rather flat looking affairs to many artistic eyes, notwithstanding their wealth of bright color, were it not for the enlivening influence of the various groups of palms and other foliage plants. And looking at the exhibition question from a strictly practical standpoint it does not follow that the growing of specimens for this purpose is merely outlay without any benefit, for not only a portion of the outlay may be recovered in premiums, but the reputation of the grower is at the same time extended by such a practical illustration of the results he has achieved, and when the plants have outlived their usefulness as exhibition specimens they may be used up in decorating.

Among the palms well suited for such use are the astrocaryums, notably A. mexicanum, a moderately strong growing species with stem and petioles covered with strong spines, the leaves of a young plant being frequently partly entire, but becoming pinnate as the plant attains age. The leaves of this species are dark green on the upper side and whitish beneath and in a large plant are several feet in length.

Acanthorhiza aculeata, also known as Chamærops stauracantha, is another handsome species and of very distinct character from the above. The leaves of A. aculeata are produced on stout petioles and are nearly round in outline, but divided into narrow segments, the divisions extending right down to the point of connection with the petioles, the color being dark green above and silvery white on the lower surface.

In habit this palm is compact and the foliage being of good texture it will stand considerable abuse, and a noticeable characteristic by which the species may be readily identified is the network of spines by which the stem is surrounded, these being formed from ærial roots, the points of which have developed into spines. Some of the thrinax too may be used to advantage, their fan-shaped leaves having a very light and graceful effect.

Two of the best species of this genus are T. argentea and T. radiata, the latter being perhaps better known as T. elegans, and both of which are comparatively dwarf in habit and remarkably elegant in appearance, their slender stems and petioles being unarmed, thus rendering them much more convenient subjects to handle than the genera mentioned above.

The thrinax are not particularly difficult species to cultivate, though when young some little care should be given in watering, especially during the winter, their roots being somewhat sensitive.

Livistona rotundifolia forms one of the most symmetrical plants in the palm family when in a small state and always excites admiration, its compact appearance and pleasing color being very decided points in its favor.

This may be briefly described as giving the impression of an improved Latania borbonica (or more correctly Livistona chinensis), the leaves of L. rotundifolia being smaller than those of the latter, of lighter color and also more delicate texture, the petioles being armed with short recurved prickles of brownish color.

L. rotundifolia is by no means as hardy as its congener mentioned above and prefers rather light soil and a warm and moist atmosphere.

Latania rubra and L. aurea are also effective plants in a collection, though unfortunately rather slow in growth and requiring strong heat for their satisfactory development.

These two species are somewhat similar in character, though widely distinct in coloring, the stems and ribs of the former being flushed with reddish chocolate color (in some specimens decided red), while those of the latter are deep yellow, the leaves of both attaining considerable size in well grown specimens.

Still another handsome warm house palm is Acanthophœnix crinita, sometimes called Areca crinita, a very graceful plant with long, pinnate leaves of arching habit, the pinnæ being quite closely arranged along the midrib. This species is also well provided with spines, the stem being completely covered with long black spines which have some resemblance to those of stevensonia.

W. H. TAPLIN.

Gladioli.

T. S. M. asks for a list of the best named varieties. The following list is given me in answer to this query by the foremost gladiolus grower in the country:

ABRICOTE.—Large rounded petals, apricot rose tinged with lilac.

ALI.—Tall, compact spike; flowers numerous and perfectly arranged. Upper petals pale creamy rose, pencilled with cherry red; lower ones yellow with rose sheen and finely striped with purplish red.

ALBATROSS.—Large spike with large, well opened, white flowers.

ANDRE LEROY.—Cherry red, flamed and striped with darker hue; white blotch and white stripe in center of each petal.

BALL OF FIRE.—Scarlet-crimson; maroon blotch with bluish center.

BARONESS BURDETT COUTTS.—Spike long; flowers large; color lilac tinged with rose and flamed with rosy-purple.

CAMELEON.—Spike compact; flowers large, slaty-lilac, flamed orange with a white line along each petal, and a large creamy white blotch streaked with violet.

CORSAIRE.—Spike compact; flowers large, dark velvety scarlet, tinted with brown at the edges.

DUCHESS OF EDINBURGH.—Spike tall; flowers of fine form and substance, purplish-rose with a carmine stripe on the lower divisions.

FLAMINGO.—Spike large; flowers of fine form, fiery red with deep purple blotch.

FLEUR DE LYS.—Spike compact; flowers large, white, slightly blotched with violet near base of the throat.

HESPERIDE.—Ground color white, and profusely blotched and streaked with bright rosy salmon.

LADY CARRINGTON.—Pale lilac streaked with carmine, pure white center.

LA FIANCEE.—White with small blush-violet blotch.

MADAME AUBER.—Spike compact; flowers large, well formed, pale rosy lilac with creamy white blotch and often dappled with light rose.

MARIE BERGER,—Spike dense; flowers well open, rosy lilac, blotched and striped with red shading into yellowish rose at the center.

M'LLE. MARIE MIES.—Dense spike; delicate rose flamed with carmine and blotch of rosy purple.

MONT BLANC.—Large pyramidal spike; flowers large, creamy white changing to pure white with small violet blotch.

MR. BAINS.—A clear light red self color.

NEIGE ET FUE.—dwarf habit, dense spike of medium sized flowers; color bright cherry red, flushed with violet, veined with white and have a large white blotch on lower petals.

NEREIDE.—Spike long and compact; flowers pale rose suffused with lilac and blotched with bright violet.

ONDINE.—White tinted lilac, small dark violet blotch slightly flamed with lilac carmine.

PYRAMIDE.—Spike large, tapering; flowers large, well open, orange rose.

THERESE DE VILMORIN.—Tall spike; flowers creamy white changing to pure white with a few purplish rose stripes in center.

VICTOR JACQUEMINOT.—Compact spike; flowers orange and scarlet, ground violet, blotch of violet and streaked and speckled pure white. W. F.

OBITUARY.

VICTOR LEMOINE, the well known florist of Nancy, France, the originator of so many new plants of value, has passed away.

A portrait of M. Lemoine appeared on page 69, of our last volume, the issue of September 15, 1890, (No. 123) together with a sketch of his life-work in the field of floriculture.

SEE advertisement in this issue giving points about our new directory and reference book.

Rhapis Humilis.

Rhapis humilis (Chamærops Sirotsik and other syn.) is similar to R. flabelliformis, but smaller in all its parts. It is excellently adapted to house culture, thriving best in a cool greenhouse. Treated liberally with good soil and plenty of water in summer out of doors it does grandly. Propagated of course like flabelliformis by division. It is considered one of the best plants for small decorations.

The magnificent specimen from which our illustration was engraved is at the Botanic Garden in Washington.

New York.

The cut flower trade is very uneven just now. Some days the demand is very brisk and everything goes, then just as everybody begins to feel secure and to make preparations for a steady run it all goes to pieces again and there is an overstock all round. Violets even, which have about as regular a sale as anything at this season of the year, have jumped from $1.50 to 75c per hundred within 24 hours, and then back again to $1.50 within another 24. Still there are none too many first class roses coming in, and in the event of a cold snap between now and the holidays there may be some lively gymnastics in rose prices and buyers won't be so particular about quality as they have been. Nobody seems inclined to quote holiday prices on roses, but the general impression seems to be that they will be considerably higher on the average than they were last year. Bulbous stuff will be plenty. Roman hyacinths are already in more than necessary quantity and prices are low. Harrisii lilies are also somewhat over abundant. There are some very good Magna Chartas coming in. Theo. Roehrs is receiving a nice lot of them regularly from Julius Roehrs, and Littlejohn is also sending some good ones to Young Bros. American Beauties are in great demand if of extra quality, and the price on selected specimens seems to take a jump every day. The somewhat ridiculous classification according to length of stem advocated by some of the growers, still causes considerable controversy. One wholesale dealer suggests facetiously, but with equal good reason, that they should each procure a pair of scales and classify Beauties according to weight!

The first consignments of imported mistletoe are in, and the stock is in fine condition. Needle pines and palm crowns turn out exceedingly good this year and a brisk demand from the city florists has set in. There is also an extra early demand for holly. Part of the holly in market is very poor, but not all. There are some fine lots, well berried, and careful buyers who order early can be suited. Wild smilax is selling well. New crop cape flowers are expected to arrive next week. Latest advices from the Cape state that large fires in the Boerland, where these flowers are grown, have destroyed much of the growing plants and New York jobbers are looking ahead to steep figures in consequence.

The last auction sale of the season took place at Wm. Elliot & Sons' on Friday, December 11. The stock was from the Boskoop Nursery Association and consisted of H. P. roses, rhododendrons, lilacs, deutzias and other plants for forcing and decoration.

On Thursday, December 10, at Robt. B. Young's occurred another great sale of imported orchids from Sander & Co. This sale was said by Mr. Dimmock to be the best one of the season. Among the buyers of orchids were the well known rose growers, Asmus on the hill, Asmus in the hollow and J. H. Taylor.

The New York Florist Club at its meeting on Monday, December 14, elected the following officers for 1892: President, James Dean; Vice-President, Theo. Roehrs; Secretary, John Young; Treasurer, C. B. Weathered; Trustees, J. B. Keller, Julius Roehrs, R. B. Young, H. A. Siebrecht, Wm. Plumb, S. C. Nash.

The question of a spring exhibition was considered and was regarded with favor.

The committee on the recent chrysanthemum show at Madison Square Garden gave a report of their recent interviews with the Garden Co. The figures are not all straightened out yet, but the club will be at least $500 richer as a result of the show. Considerable dissatisfaction is abroad, however, regarding the Garden Co.'s methods, and should another joint exhibition be arranged for the club will insist on having an ironclad agreement in advance. Previous to the regular club meeting the bowling club held its session and the new balls and pins were given another severe test.

A lovely form of Lælia autumnalis alba is now in flower with Mr. Hicks Arnold. The spike carries seven well formed flowers of pure white with a faint yellow mark in the throat. This is still a very rare variety and is always admired.

Mr. David Rose, for the past eight years head gardener to Mr. Charles Pratt, Brooklyn, has resigned his charge there to accept of the position of foreman to E. G. Hill & Co., at Richmond, Ind. But so good a gardener and open, honest and likeable a man could not remove so far away from his friends in the east without first receiving the stamp of their appreciation. So on Thursday evening, Dec. 10, Mr. and Mrs. Rose were the guests of President and Mrs. Dean at Bay Ridge, where and when also a large number of Mr. Rose's friends met to give him a happy surprise. At a fitting time Mr. Dean in his own frank and felicitous style, and in the name of the florists present and those unable to come, presented a handsome gold watch and chain to Mr. Rose and an enamel diamond pin to Mrs. Rose as a mark of the high regard in which they are held by their friends. The surprise was complete and the recipients touched. And all enjoyed the generous hospitality of their warm hearted host and hostess and their delightful family. It was a happy gathering.

After the presentation ceremonies and the necessary attention to the requirements of the inner man, the company was entertained by Miss Maud Dean and Mr. Alfred Dimmock with songs, after which dancing began, Mr. C. B. Weathered leading off with Miss Plumb. One of the Misses Dean danced the Highland Fling and Sailor's Hornpipe amid great applause. Later the boys adjourned to the pool room, where some very remarkable shots were made, Mr. Gus Bennett even playing with the balls on the floor. The party dispersed at a late hour with cheers for Mr. and Mrs. Rose and many thanks to the genial host, hostess and their daughters.

Mr. E. H. Rath of Flushing, L. I., who is supposed to have perished in the railroad accident at East Thompson on Dec. 4, was a member of the Society of American Florists.

Mr. I. Forstermann has a sport from carnation American Flag which closely resembles Hinsdale, and one similar to Grace Wilder in color. Mr. Forstermann is using a mixture of bran and paris green for slugs with very gratifying success.

Mr. Alfred Dimmock will sail for England on Dec. 19.

Sage advice to rose growers: Don't store your roses away in the cellar a week or two ahead of Christmas. It is a big temptation, but it doesn't pay.

Boston.

The first half of December has got into a bad habit of recent years and has earned the reputation of being a dull season. "Saving up their money for the holidays," is the explanation given by some. This year is no exception to the rule as far as general trade in cut flowers goes, but there have been several funerals of prominent individuals which have served at least one good purpose. The weather has been unusually mild and the crop of roses, carnations, etc. has been pushed rapidly along, so that no advance in prices is yet noticeable, although it will be but a few days before the growers begin to hold back anything that can possibly be stored till Christmas, and then the pinch will begin. Under the circumstances the advent of cold and stormy weather before the holidays would be apt to make some kinds of stock very scarce. A few chrysanthemums still linger, and one large grower has by intention or by accident a large quantity which will be all right to hold for Christmas, and which ought to bring him in good returns. The best roses in the market at present are Ulrich Brunners. Where these are shown in good shape the American Beauty has to step down a peg.

The much discussed Waban is seen in considerable quantity and improved quality, although the retail florists as a rule do not take kindly to it, their feelings towards it being well illustrated by the witty and only Lawrence Cotter, who says, "When I open my box and show it to them they're like to eat the face off of me."

Holly is coming in, well berried and handsome, although it is said that in some of the holly districts the berries are conspicuous by their absence this year. This may account for the unusual demand which has begun earlier than usual and bids fair to clean up all available stock ahead of the time.

The closing meeting for the year 1891 of the Massachusetts Horticultural Society was held in the Library room, Horticultural Hall, on Saturday, December 12, the principal business being the reading of reports by the chairmen of the various committees. This was the first year of the existence of the flower committee separate from the plant committee. Mr. A. H. Fewkes' report of the year's work by this committee was listened to with much interest and was conclusive proof as to the wisdom of the new departure. Among Mr. Fewkes' recommendations for the future special stress was laid upon the importance of correct and legible labelling of all cut flowers except those grouped for display only, and the desirability of the adoption by the society of some uniform label for this purpose, the same to be provided for the use of all exhibitors.

The report of the transactions of the society for the first half of the year 1891 has come to hand, and is most creditable to Secretary Manning in its appearance and its scrupulous correctness. All the essays and discussions of last winter are printed in full, and two of the papers, that of Col. H. W. Wilson on a Winter Visit to the Bahama Islands, and that of



RHAPIS HUMILIS.

Thos. W. Galloway on Fungus Causing Damping Off, being beautifully illustrated, the former with eleven plates and the latter with two.

On the exhibition tables on December 12 were some unusually fine spikes of Calanthe Veitchii vars. superba and compacta, and good heads of Luculia gratissima, a beautiful cool greenhouse climbing shrub, exhibited by Geo. McWilliam, of Whitinsville.

Hew's pottery, which was damaged by fire on December 1, is one of the landmarks and best known manufactories in Cambridge. The business was started at Weston by Mr. A. H. Hew's great grandfather, Abram Hews, in 1765, and has been operated by the family ever since. It was moved to Cambridge in 1871. From the original structure, destroyed December 1, the plant increased little by little till it snugly covered an acre of ground. Over 100 hands are employed in the establishment when in full running order. The firemen were promptly upon the scene and did exceedingly well to keep the fire from spreading into the adjoining storehouses, the shipping department and paint shops. It was also kept out of the office, so that all the firm's books and accounts are perfectly intact. Mr. Hews says that he will be seriously handicapped in preparing for the spring trade. He will rebuild at once, and until he gets the factory in running order he will utilize a building recently erected by him on Walden street for refining clay for manufacturing purposes. As he is obliged to build his own machinery there will be at the best considerable delay in doing that.

Information comes from Washington that Henry Wax, son of N. S. Wax, the Winter street florist, has been cutting up strange pranks about Washington and has been arrested and held in custody pending an investigation as to his sanity. He has given evidence of unsound mind on previous occasions in Boston.

Chas. Newton, son of J. C. Newton, a Malden florist, is prominent in the daily papers at present as the victim of a shooting affair. Accounts are somewhat conflicting and the exact truth of the matter

has not yet been determined, but the young man has a very ugly bullet wound in the arm, which he claims was inflicted by a stranger who attacked him at the greenhouses.

Mr. Frank Barney, the popular foreman at the seed establishment of Schlegel & Fottler, is mourning the loss of his father, who died on December 11.

Philadelphia.

Mr. John Thorpe has been with us during the past week in the interests of his department of the World's Fair.

He has been busy in visiting the leading owners of rare plants in an effort to secure donations or the loan of such as their possessors will part with and which cannot be purchased. He has met with great success and will receive from Mr. George W. Childs some very large specimens of palms, plants whose growth are making them too bulky for a private conservatory, and will also receive some rare specimens from Mrs. Baldwin.

He has secured in addition some of the large specimens from the Park Conservatory, which were placed there during the Centennial exhibition. From the trade quite a number have promised support and will make very interesting exhibits.

There has been quite a demand for good roses, particularly Beauties, the past two weeks. Mr. Burton's have been very fine. His first house of Laings and Brunners is in; the flowers are a fine color and of good size.

Mr. Price of Lansdowne has a house of Brunners which is looking well and will be in full crop about Christmas.

Prices have stiffened considerably. Mermets, Brides, La France, Albanys and Bennetts are bringing 6 cents; Cusins, Hostes, 5; Perles, Gontiers, Sunsets, Niphetos, 4 to 5; Beauties, 35; Laings, 40; Brunners 60. These prices are for the best average run of roses; in poorer grades the price depends on the abilities of the parties interested.

The carnation crops seem off or else the demand is greater, as the supply is hardly equal to it; they now bring $1.50 to $2.

Chrysanthemums are all cut out except with Mr. Harris, who has still some late varieties. His Mrs. Herbert Pennock is a very large yellow; the first flowers were cut Dec. 8; it will easily last until Christmas.

St. Louis.

The Florists' Club of this city held a business meeting Dec. 10, at which Mr. E. H. Michel presided, with Mr. E. Schray as secretary.

The finance committee reported the door receipts of the chrysanthemum show to be over $1,300 and the expenditures about $800, leaving a balance in the club's treasury of over $500. This surely is encouraging since this chrysanthemum show was the first ever held here. The exhibition committee reported that next year's show will be held about the 9th of November.

There were five applications for membership to the club, which now numbers over fifty members. Some time was spent in discussing the contents of a letter from Prof. Wm. Trelease, director of the Missouri Botanical Garden, in which he suggested that the Florists' Club select a young man about 15 or 16 years old to take up a scholarship at the above Garden. It was decided, if possible, to give the scholarship to a St. Louis boy in preference to one outside of the city. At the next monthly meeting a number of interesting discourses on roses will be given.

Chrysanthemums are about over. The weather is and has been for the last few days unusually warm. People are saving up their pennies for the Christmas festivities. These three facts must account for the general dullness in both wholesale and retail cut flower trade. Roses, however, seem to be in fair demand locally. This warm spell has increased the sale of small shrubs, for since the frost is now out of the ground both buyers and sellers are not slow to take advantage of the fact.

The recent fire at J. M. Hudson's place, caused by defective heating apparatus, is a warning to all who contemplate building boiler houses. Let us fireproof.

Mr. F. J. Fillmore has in successful operation the putting of double strips of common chicken wire between his rows of carnations, an idea brought forward in these columns some time since. The material used costs one cent only a plant. A good flower saved from each plant will bear this expense, besides which plants held up in this way from the time they are first planted in the benches do not need the amount of cleaning usually given; then again no flowers need be lost, for all can readily be seen.

At the Missouri Botanical Garden the work of improvement by substituting good substantial walks for the old ones is making rapid strides. The Pampas Grass has all been taken up and planted in cold frames. The lawns are all being liberally dressed with a mixture of equal parts of very old cow manure and the cleanings from a ditch in which sewage has been running for many years. The tulips and other Dutch bulbs are now all planted and the beds covered with pine needles for protection during the sudden changes which we experience here. All roses, other than those that are hardy, have been treated to a good mulching of pine needles, which are par excellence as a protector against the winter's severity, when they are obtainable. As your correspondent passes through the greenhouses the beautifully perfumed flowers of several species of anthuriums greet his eyes, the odor of which mingled with that of the more widely known Olea fragrans fills the air with its sweetness. J. W. D.

Montreal.

The regular meeting of the club took place on Tuesday evening. There was a very large attendance. It was decided to hold a spring show about the middle of April, when the prizes will be awarded on the St. Louis plan. One proviso is that no exhibit will be allowed to win more than 30 per cent of the sum for that section. This is done so that there will not be any kicking in case of only one or two exhibits in said section. This experiment on our part is looked upon as very important, for if successful the days of 1st, 2nd and 3rd prizes will be over. Any how it must often be very annoying to an exhibitor to lose 1st by perhaps only a point or two and to get only about the half of the value as the 2nd generally is.

The president announced that the distribution of Christmas boxes (prizes) would take place on Tuesday evening, the 22nd. All interested please take notice as the local papers have it the 29th. J. Betrix read a short paper on azaleas, after which Mr. G. Hughes (of Hughes & Stevenson, steam fitters, etc.) read a paper on heating, in which he said that 4-inch pipe was still the best way of heating greenhouses. He also said that the fireman was a very important factor in the case and we agree with him on that point.

Business is fairly good. The weather has been extra fine, in fact the best on record. We hope for a good trade Christmas and New Years.

There will be quite a few "mums" this year and not "rags" either. Widener would easily keep if cut back late and so would most of the other varieties. I cut back a lot the last week in August and am cutting good flowers now and will do so till the new year, of Widener, Lincoln, Mrs. I. Clarke, Kioto, Domination, Cullingfordii and several others.

The competition between our hard-working secretary and corresponding secretary as "propagators" is very interesting and looks as if it will be a tight race, though if "Walt" keeps up the pace he will soon overtake Joe who started with a lead of one length.

The gardeners voted in a full board (9) of directors at the meeting of the Horticultural Society on Monday, the 7th inst, much to the surprise of some of the old board who had had matters all their own way for some years. As the funds are at a very low ebb the new board have got plenty of work on their hands to pull the society out of the hole it is in. J. B.

Toronto.

The Gardeners' and Florists' Club proposes to have its second annual dinner on Tuesday, the 15th inst. This is rather earlier than was at first intended, but it was found that if not held before Christmas it would owing to various circumstances, have to be put off till late in January. We should have liked to have had some of our American brethren with us, and possibly may, but the notice is very short. The club in order to accommodate the poorest member has put the tickets to members at 50 cents and will kindly pay the balance itself. The whole crowd and a "big time" is expected.

Signs that Christmas is getting very near are already to be seen in the florists' stores. A good trade is expected if the weather is favorable. The year before last stove and greenhouse plants were being sold on the market the day before Christmas and they did sell too. This climate is often painted blacker than it need be.

Chrysanthemums are still pretty plentiful, but many of them begin to have a sort of "passe" look about them.

Already the question "are you going to Washington next August?" is being asked, and from the answers given a good sized delegation from Toronto may be expected. Mr. J. H. Dunlop goes to spy out the land there in two or three weeks and his report of the customs, manners, food, beverages, etc., of the natives in that district will be anxiously awaited. Mr. Dunlop has been asked particularly to report on the quality of tea, coffee and porridge. E.

OUR REPORT of the Indianapolis chrysanthemum show failed to mention a seedling named Dr. H. D. Hull, shown by Messrs. Nathan Smith & Son, Adrian, Mich., and to whom was awarded a certificate of merit for same. It is a dainty pink in color, petals long and broad, of the Japanese incurved type. In the same report "Redondo" was misspelled, as was also "Goguac," here correctly given.

IN THE report of the exhibition at Wooster, O. the names of the seedling carnations shown by Edward Swayne were transposed by our correspondent. Aurora is the pink one and Thos. Cartledge is the red, or rather is nearly the color of La Purite.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a practical florist, gardener and rose grower; private or commercial; references. W. LODGE, 37 Broker Ave., Cleveland, O.

SITUATION WANTED—By a young man age 20; have been in cut flower store for 7 years as floral artist and decorator. Address C P, care Hill Bros., Richmond, Va

SITUATION WANTED—By a competent florist and gardener; private or commercial place; age 29, single; can give good references State wages Address P. WITTRUP, Ft. Scott, Kan.

SITUATION WANTED—By gardener and florist; first-class, practical man of long experience; also fruits and vegetables. Address D M. care J. F. McDonough, S. Orange Ave., Newark, N. J.

SITUATION WANTED—By an active young man of sober habits; 5 years' experience in growing cut flowers and bedding plants. Good reference. Address A F, care American Florist, Chicago.

SITUATION WANTED—By young Swedish florist Jan. 15; 10 years' experience, 4 in U. S.; competent to take full charge of greenhouses. Best of references. Address PEARSON, 112 Boot St., Marion, Ind.

SITUATION WANTED—As foreman. Thorough, practical, experience; capable and reliable in any department; growing roses, florist stock of the finest quality. Good salary Address T C, 1514 Chestnut St., Philadelphia, Pa.

SITUATION WANTED—By a young man, age 24; large experience in greenhouse plants. Speaks French, Flemish and little English. Good references. Address ART DEMEYER, Porte Anvers, Ghent, Belgium.

SITUATION WANTED—By a young florist; have had considerable experience in growing roses, violets, carnations, and bedding plants. Good reference. Please state wages. Ready March 20. WALTER M. COOPER, West Grove, Chester Co., Pa.

SITUATION WANTED—By a thorough, practical florist and landscaper, having 20 years' experience in first-class public and private places. Best references Married; age 32 Address AMERICAN, care H. A. Dreer, 714 Chestnut St., Philadelphia Pa.

SITUATION WANTED—As foreman or manager, to take charge; thoroughly versed in growing roses, plants, bulbs carnations, violets; many years' experience in leading places in England and America. First-class references; good wages wanted. Address D P N, care American Florist, Chicago.

SITUATION WANTED—By an Englishman, age 40, single, as gardener and farmer; thoroughly understands the management of stock; also high and low pressure boilers; has filled similar situation for 19 years; best of references from a large place. Address AUGUSTA, care American Florist.

WANTED—Catalogues of florist and nursery stock. Address NICK GREIVELDING, Sparta, Wis.

WANTED—To lease or rent, an established florist business with 10 000 or 15,000 feet of glass. Address K. WOLFF, Carthage, Ohio.

WANTED—At once, 25 or 50 Azaleas, double, all colors; must be sure to bloom this winter, and cheap. JOHN IZE, Pleasant Plains, Ill.

WANTED—A good, sober gardener; one that is good to propagate as well as work in a greenhouse. H. MOORE, 54 Beale St., Memphis, Tenn.

WANTED—Partner in contract for nurseries and botanic garden, "Perry Grant," Honduras. Grand chance for energetic man. M BENSON, Sparta, Ill.

WANTED—A young man with some experience in greenhouse plants. Must come well recommended. State wages expected Address F. W. WRAMPELMEIER, Louisville, Ky.

WANTED—A thoroughly competent mushroom grower for commercial house—one who understands floriculture preferred. A. J. VREELAND, 200 Westside Ave., Jersey City Heights, N. J.

WANTED—By middle of January, 1892, florist for commercial greenhouse of 3,000 ft. under glass. Further particulars by correspondence or personal interview. E. M. H. EDWARDS, Dunkirk, N. Y.

WANTED—A young man of good habits and pleasing address as cut flower worker in a first-class retail store in a large western city. Must come well recommended. Address, stating age, nationality, references and salary desired, to R G, care American Florist, Chicago.

WANTED—Florist for a suburban home near Kansas City, Mo., to take charge of private greenhouse and garden; must be well informed, industrious and well recommended. To right party permanent employment and comfortable home with reasonable compensation. Address L. O. SWOPE, Independence, Mo.

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We have now ready 50 000 in 2-inch pots, $3 per 100; $30 per 1000, our selection.
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Also a fine lot of HYBRIDS, $5 per 100; $50 per 1000.
Larger sizes from $10 to $20 per 100.

Send lists to be priced. New Catalogue ready January 1.

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HERMOSA, strong plants, $6.00 per 100.
HYBRID PERPETUAL, sorts including JACKS, years old, extra strong, $10.00 per 100.

SMILAX. Good strong plants, $2.50 per 100; $20.00 per 1,000.

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LIL. AURATUM, RUBRUM, LONGIFL., ALBUM, ETC.

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SAN FRANCISCO, CAL.

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Magna Charta. Persian Yellow.
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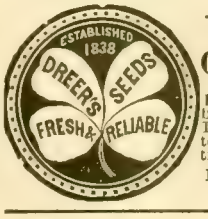
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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

HOLIDAY PRICES.

As we stated in a short item in last issue now is the time to consider the question of holiday prices, and to assist in its consideration we reprint herewith extracts from our reports on the holiday trade of last year.

Here they are:

New York.

This has been the poorest Christmas New York has seen for many years. The general uncertainty of the financial outlook made flower buyers cautious. Society people were very quiet, not one half the usual floral compliments were exchanged. An analysis of the trade shows that the middle classes were the principal flower buyers.

Flowers were never so cheap at Christmas before, prices in many instances only reaching half those of last year.

It is more than probable that a much larger business would have been done by a little if the public knew flowers could have been bought at reasonable prices, but unfortunately the florist is looked upon as a robber at Christmas and New Years, and people pass the flower windows with a sigh and visit the neighboring candy or jewelry store. It is only natural for growers and retailers to try and get as much as they possibly can for stuff, but the question to be settled is, do high prices at Christmas tend to benefit our trade?

There were many reputable retailers here who bought very little at Christmas. Why? It was the same answer from all. Their customers would not pay the high prices.

Boston.

The volume of Christmas trade was fully up to the average. The weather for several days preceding the holiday was more like April than December, consequently was most favorable for shoppers, so that the retail stores and street dealers had all they could attend to.

Such weather was a boon for the buyers, and in an equal degree a cross and a perplexity for the growers, who were put almost to their wits end to dispose of their unexpectedly bountiful crop at figures consistent with well established and generally accepted traditions. And they went about it in the usual short sighted way. For two weeks preceding Christmas they stored and stored, and anxious buyers were politely refused in the old fashioned style. And when Christmas was come they appeared in droves with their accumulated stock. And at the wind-up they were just as persistently anxious to unload as they had previously been to accumulate. On Christmas morning it was indeed a lucky bud that escaped the cutting shears; if it only showed a speck of color that was enough for its thoughtless owner in his desperate determination to sell everything "for Christmas." So when on the day following, winter set in in dead earnest and the greenhouses were dark from the heaping snow drifts, roses and carnations were called for; there were none to be had.

The same old story year after year, and like other respectable stories it has its moral, yet how few there are who learn it or heed it.

It is said that several dealers who had bought recklessly were badly overstocked with certain varieties of flowers, which they were glad to unload finally at almost any price.

Chicago.

Christmas trade averaged somewhat less than last year. There was a large supply of flowers and prices were 25 per cent lower than at last Christmas. There was a big overstock of violets, white carnations, Roman hyacinths and smilax. Fancy colored carnations sold out clean. A big supply of all roses except American Beauties; an overstock of Perles and Niphetos, and they were sold at less than quotations. All red roses were sold. No demand for poinsettias. Quality of most stock was as good as usual. The over stock of smilax was very large. Less demand than ever before for it. Holly and green sold well at prices equal to those of last year.

One large florist claims that there was more kicking about high prices at Christmas than ever before, in spite of the fact that prices were really lower than they have been at the holidays for a long time. Customers assumed that the prices were high simply because Christmas prices were traditionally exorbitant.

Many amusing stories are told about various growers who "pickled" stock, refusing high prices just prior to Christmas, and then almost giving it away afterward. As one florist puts it, "There were enough violets in the market Christmas day to pave State street and then leave enough for New Years."

Philadelphia.

Christmas has come and gone and as far as we can hear the trade generally are satisfied. Growers report a good cut and most of the stores a better business. Prices jumped from $10 for Mermets, La France and Brides on the 18th, to $25 for the same kinds on the 23d, and stock was not a 1 first class even at that. Everything goes at Christmas, but it is rather galling to the dealer to see would-be customers go out of the door on the announcement of prices.

There was plenty of stuff of all kinds and no word of "We can't take any more orders as we haven't got flowers enough to get out what orders we have," as used to be the case in former years. Philadelphia now has plenty of flowers for her own market and an abundance for shipping.

The points to now consider are these: 1st, will the supply at the coming holiday season be less, equal to or larger than last year; 2nd, will the demand be larger, equal to or less than last year. If decided that both supply and demand will be larger than last year then follows the query, will the increase in the demand exceed the increase in the supply. If it is decided that the increase in the demand will in all probability greatly exceed the increase in the supply then we will be warranted in setting prices a peg higher than last year. If, however, we decide that the increase in the supply will be only equal to the increase in the demand then we ought to set the prices a peg lower for we know that all was not sold last year. If we are convinced that the increase in the supply is considerably greater than that in the demand we should make prices quite a fair percentage lower than last year in order to move the entire supply. We must endeavor to estimate as closely as possible the prices that will sell all, or very nearly all, the supply, and if there remains more than 5 per cent of the supply unsold, we will have made a serious blunder in our estimates. Again if we sell out clean and find a large demand still unsatisfied we will have made our prices too low to realize the fullest possible returns. But taking the effect of holiday prices on the average regular buyer into consideration it will undoubtedly be better in the long run to err in making the prices a trifle lower than necessary to move all the stock rather than to make the blunder of setting them too high with the result of a surplus to go to waste.

And in view of the uniform experience of the last few holiday seasons it will be to the best interests of the growers to do very little holding back of stock just before the holidays and then unloading great quantities on the market. The conditions that made this plan profitable some years ago do not now exist. Demand is not now so concentrated at certain seasons as it was then, and while it is certainly still very profitable to strike the holidays with full crops, the thing can be overdone. We can now place in the market an immense crop of fresh flowers at the holidays, owing to better methods of manipulating matters than prevailed in years gone by, and "pickled stock" now stands but little show in the open market even at the holidays. And experience has also shown us that of late years the natural, regular demand would take all these flowers at prices equal to holiday figures had they been marketed when really ready, so that "pickling" has become not only an unpleasant but a decidedly unprofitable transaction.

THE forthcoming corrected edition of our directory will be much more than a mere list of those in the trade. It will be in reality a reference book as well as a directory. Among the special features will be alphabetical lists of roses, chrysanthemums and carnations, up to date, giving class, name of introducer, date of introduction and brief color descriptions, and give synonyms. These lists are being compiled by experts in each particular class, and can be relied upon as authoritative. The spelling of the names will be verified in each case and the list will we believe be of much value as an authority upon the spelling of names alone. In addition to these lists we shall print in the Directory the government statistics of the Florist, Nursery and Seed trades; a list of all the national trade organizations, with a brief outline of the history and objects of each, together with the names and addresses of officers; a list of all the Florists' Clubs and other local trade organizations, with a few facts of interest about each one; and much other information of interest to the trade that it will be convenient to have at hand for frequent reference. It will be a book that every florist, nurseryman and seedsman will want on his desk. The price will be $2. Order a copy now.

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	BOSTON, Dec. 15.
Roses, Bon Silene	2.00
" Gontier	3.00
" Niphetos	4.00
" Perles, Sunsets	4.00@ 6.00
" Mermets, Bride	6.00@ 8.00
" Waban	6.00@ 8.00
" Beauty	50.00
Carnations	1.50@ 2.00
Violets	1.00
Callas	12.00@16.00
Valley	6.00
Romans, Narcissus	4.00
Smilax	12.00
Harrisii	16.00
Camellias	6.00@ 8.00

	NEW YORK, Dec. 15.
Roses, Bon Silene	1.50@ 2.00
" Gontiers	3.00
" Niphetos	3.00@ 4.00
" Mermet, Bride, Cusin	6.00@ 8.00
" Perles, Sunsets	4.00@ 5.00
" Watteviles, Hostes, Bennetts	6.00@ 8.00
" La France, Albany	6.00@12.00
" Beauties, 1st quality	75.00
" " 2nd "	40.00
" Magnas	25.00@50.00
Carnations	1.25@ 1.50
Roman hyacinths	3.00
Narcissus	5.00
Lily of the Valley	6.00
Harrisii Lilies	12.00@15.00
Violets	1.50@ 2.00
Smilax	12.00@20.00

	PHILADELPHIA, Dec. 15.
Roses, Brunners	50.00@75.00
" Laings	35.00@50.00
" Beauties	20.00@45.00
" La France, Albany, Dukes	6.00@ 8.00
" Mermets, Brides, Hostes	6.00@ 8.00
" Bennetts, Guillots	6.00@ 8.00
" Cusins, Watteville	5.00@ 7.00
" Perles, Niphetos	5.00@ 6.00
Valley	6.00@ 7.00
Carnations	1.50@ 2.00
Violets	1.00
Romans, narcissus	4.00
Smilax	15.00@20.00

	CHICAGO, Dec. 15.
Roses, Am. Beauties	20.00@25.00
" Perle, Niphetos	5.00@ 6.00
" Gontiers	3.00@ 4.00
" Mermets, La France	5.00@ 7.00
" Brides, Albany	6.00@ 8.00
" Bennetts, Woottons	5.00@ 7.00
Carnations, long	1.50@ 2.00
Carnations, short	1.00@ 1.25
Smilax	12.00@18.00
Violets	1.00@ 2.00
Roman hyacinths	6.00
Valley	8.00

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A large stock of ROSES, LILY of the VALLEY, VIOLETS, CARNATIONS, ASPARAGUS, HYACINTHS and other Standard flowers
FOR THE HOLIDAYS.
HOLLY AND MISTLETOE, of the best quality, by the Case or in large quantities at low prices.
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—— ALSO ——
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

SEE ADVERTISEMENT OF
YOUNG BROS.
ON PAGE 413.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST
32 West 30th Street,
NEW YORK.
ROSES SHIPPED TO ALL POINTS.
Price List on Application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

CARNATION BLOOMS.
IN FANCY COLORS—LONG STEMS.
I solicit standing orders from florists and others throughout the country, as I make a specialty of shipping them long distances safely by express.
WANTED! 50 plants or more of Scented Geranium London Blue. Mail sample plant or foliage with price, to the undersigned.
CHAS. T. STARR, Florist, Avondale, Chester Co., Pa.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

The U. S. Seed Store Again.

The Washington *Star* of Oct. 24 says:

The department of agriculture is about to begin its purchases of seeds for supplying the farmers of the country. All such buying is done directly from growers. Congress appropriates $100,000 for this purpose annually. It costs $60,000 to put up the product and ship it from Washington, so that only $40,000 is actually devoted to paying for the material distributed. In June and July special agents travel about inspecting the crops which the seedsmen are raising. They select what they want by sample and in November they journey around again and make their contracts.

The seedsmen do not usually produce their stock in trade on their own land. They hire the use of extensive tracts from farmers—sometimes such a plantation will include a thousand acres—paying so much an acre and supplying the seeds to be planted. On their part the farmers contract to deliver the crops obtained husked or threshed, cleaned and in good condition. It is agreed that they shall do all the labor and that the parties of the other part shall be permitted to examine the fields at any time and weed out all "rogues," which are plants of inferior varieties such as will creep in.

UNCLE JERRY'S SPECIAL AGENTS.

In summer time, when the crops are growing Uncle Jerry's special agents come along. To them each seedsman shows not his green fields, but his "trial garden," wherein he cultivates a few specimens of each choice vegetable that he is engaged in propagating. The government buyers look the stock over, decide in a general way as to what they want to purchase and go away, to return in the late autumn and give their orders after inspecting the seeds in the bins.

These seed farms are scattered all over the United States. Cabbage seeds are nearly all grown on Long Island, elsewhere in New York state and in Connecticut. Farmers believe that they need salt air. Of cauliflower seeds the same remarks may be repeated. Peas for seed all come from the neighborhood of Traverse, Mich., and Manitowoc, Wis. Those got from elsewhere are always apt to have little worms in them, but the flies of which these worms are the larvæ do not live in the region mentioned. Beet seeds are nearly all imported. Carrot seeds come from the far west, especially from California, in which state are also produced most of the lettuce seeds and the best. Corn and onions for seed are raised all over the country and the same is true of the seeds of melons. Cucumber seeds come from Nebraska, Wisconsin and Missouri.

Onion seeds are gathered by going through the fields and cutting off the pods at the tops of the stalk, tying them in bundles and threshing them out on canvas. Beans are allowed to stand in the field until they are yellow, after which they are stacked up until they are perfectly dry and threshed out. Peas are permitted to get dry and hard in the rows and then are taken to the barn for threshing. To get cabbage seeds the stalks which have grown one year must be planted the next, when they run to seed. The same is true of carrots; the roots which have developed in one season are put in the ground the next and go to seed. No seed potatoes will be distributed this year by the department. The eyes which have been shipped in past years were found too perishable, either rotting or freezing before they were planted and whole potatoes are too bulky to handle.

IF YOU have anything to sell to florists, nurserymen or seedsmen you ought to have an advertisement in our forthcoming Directory and Reference Book. An advertisement in this book will be constantly under the eyes of possible buyers for the next two years.

A ST. LOUIS gardener predicts that rose bugs will be in force next year and that they will not leave a leaf on rose bushes. He says that the earth at the roots of rose bushes is full of eggs and larvæ of this destructive insect.

THE BUSINESS of J. Horace McFarland, Harrisburg, Pa., the "printer for florists," has been incorporated under the title of J. Horace McFarland Co.

ROOTED CUTTINGS.

Carnations. Some 30,000 feet of glass are devoted to Carnations alone, with two propagating houses each 100x10; these will be kept filled with cuttings of the three best Novelties of last season—**LIZZIE McGOWAN, HECTOR and GOLDEN GATE;** also the best of the older sorts and other novelties of merit. They will be ready for delivery DECEMBER 20th and later as desired. CUTTINGS will not be sent out until well rooted and every effort made to give satisfaction in all particulars.

READY NOW, a fine lot of **GERANIUM CUTTINGS,** all of the very best varieties Old and New, making them cheap at the price, $2.00 per 100; $15.00 per 1000. Other miscellaneous stock later on. It will pay you to watch my adv. for changes.

Correspondence Solicited. Descriptive List on application.

L. B. 338. **ALBERT M. HERR, LANCASTER, PA.**

Rooted Cuttings.

CARNATIONS. Six Novelties of 1892. All the Best Varieties of 1891. Best Standard older sorts.
COLEUS. Twelve Bedding. Twelve General Purpose. Twelve Fancy Varieties. The finest collection on the continent. Samples labeled, 25 cts. per set. The three sets, 60 cts.
GERANIUMS. Three sorts good for any purpose: Double Gen'l Grant, scarlet; Centaurea, pink; La Favorite, white.

First quality stock. Low prices for cash. Send for List. Give me a chance on what you want.

ALEX. McBRIDE, Aiplaus, N. Y.

CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named **"DORINDA,"** a seedling of 1888—one of the best.

Catalogue will be ready Dec. 10, '91. Send for it.

R. T. LOMBARD,
WAYLAND, MASS.

ROOTED CUTTINGS OF
CARNATIONS

Nice, healthy Rooted Cuttings of Carnations of all the leading and newer sorts, in any quantity after Dec. 10th. Orders received for future delivery at 10 per cent. discount from price list. Correspondence solicited.

JOSEPH RENARD, Unionville, Chester Co., Pa.

Carnation Cuttings.
NEW AND STANDARD SORTS.

SEND FOR PRICE LIST.

WM. SWAYNE,
P. O. Box 226. KENNETT SQUARE, PA.

SEEDLING **CARNATIONS** WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN, besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

PANSIES AND OTHER STOCK

For Fall Planting. Per 100 Per 1000

SMILAX, 2½ inch pots $1.50 $12.00
CHRYSANTHEMUMS, 5-inch pots.. 8.00
CHRYSANTHEMUMS, large stock plants in variety. 20.00

Address **J. G. Burrow,**
FISHKILL, N. Y.

EXTRA VERBENA SEED.
IMPROVED GIANT.

This magnificent strain of Mammoth Verbena has given perfect satisfaction to my many customers in the florists' trade, and is justly claimed to be the finest in cultivation. The florets measure over an inch in diameter, borne in immense umbels. Very free flowering and of the finest colors. Every florist should be sure to sow of it. Trade pkt. 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

THE
American Carnation Society.
ORGANIZED 1891.

Annual meeting, Buffalo, N. Y., Third Tuesday in February, 1892.

DEVOTED TO THE IMPROVEMENT OF THE CARNATION.

ANNUAL MEMBERSHIP FEE, $2.00.

Send your name and address to
C. J. PENNOCK, SEC'Y,
Kennett Square, Chester Co., Pa.
And remit Postal Note for $2 00 to
C. W. WARD, TREAS.,
East Moriches, N. Y.

AURORA.
Winner of the Ladenburg Cup for best pink
CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

Send for general price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

DON'T

order your Carnations until you send for our list and see what we have to offer.

GEO. HANCOCK, Grand Haven, Mich.

WELL STRUCK
My Rooted Cuttings.

SEND FOR LIST.

S. B. FIELD, Roselle, N. J.

F. A. RIECHERS & SOHNE, Act-Ges,
Import and Export Nurseries,
HAMBURG, GERMANY.
Specialties in Lilies of the Valley; Azaleas, Camellias in sorts, best varieties in Palms and Dwarf Roses.
☞ Wholesale Catalogue on application

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

WHY You Should Grow Mushrooms.
Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.
During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.
Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or outhouses, in the open field or in mushroom houses.

How You Should Grow Mushrooms.



First get spawn that will grow. It must be fresh, well spawned, and in good condition. **Gardiner's Celebrated English Mushroom Spawn** is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, **"Mushrooms for the Million,"** Mailed free. **Falconer's "Mushrooms and How to Grow Them."** Published at $1.50. (Gardiner's price $1 35 post free.) **Robinson's "Mushroom Culture,"** 50 cts. postpaid.

GARDINER'S ENGLISH MUSHROOM SPAWN.

John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, $8.00 per 100 lbs. Special rates to large growers. Address all correspondence to **21 North Thirteenth Street,** Philadelphia, Pa.

JOHN GARDINER & CO.

Bulbs. Bulbs. Bulbs.

At these low prices for the next 30 days only. CASH WITH ORDER.

			Per 100	Per 1000
Lilium Auratum,	7 to 8 inches.		$ 3 50	$25.00
" "	8 to 10	"	4 50	35 00
" "	10 to 12	"	8 00	70 00
" Album,	7 to 8	"	6 50	55 00
" S. Album,	9 to 10	"	7.50	65 00
" S. Rubrum,	7 to 8	"	4 50	35 00
" S. "	8 to 10	"	5 50	45 00
" S. "	10 to 12	"	7 50	65 00
" Longiflorum	4 to 5	"	1.75	12.50
" "	5 to 7	"	2.50	20 00
" "	7 to 8	"	4 00	35 00
" "	8 to 9	"	5.00	40.00
" "	10 to 11	"	5 50	45 00
" Tigri. fl. pl.	5 to 6	"	5.00	45.00
" Krameri,	4 to 5	"	5 00	41.50
" Atropurpureum,			5 00	
" Coridion,			2 50	
" Batemanni,			4 50	

Other varieties on application.

CYCAS REVOLUTA, best long-leaved variety, from 6 inches to 6 feet, 10 cts per lb. Discount on larger orders.

CYCAS CIRCINALIS by January, '92. Price on application.

Rhapis flabelliformis, 25c. to 45c. per shoot.

CAMELLIAS, from $25.00 to $60.00 per 100.

Send for new Catalogue.

FELIX GONZALEZ & CO.,
303 to 312 Wayne Street, SAN FRANCISCO. CAL.
Mention American Florist.

LILY OF THE VALLEY PIPS.

100,000 Berlin, extra selected quality, offered for sale, to arrive in quantities per case to suit, at $9.00 per 1000.

Special prices to the trade, as to quantity.

C. C. ABEL & CO., New York.

KAE SHEAN CO.,
Growers of CHINESE SACRED LILY,
HONG KONG.

Goods can be obtained at the following houses:
John L Childs Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R Pierson.....Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

Mention American Florist.

PANCRATIUM CARIBBAEUM.
(The Great Spider Lily.)



This was one of the best selling novelties last season, and not only sold, but gave **SATISFACTION** to the purchasers. Thousands of bulbs have bloomed freely in all parts of the country. Every **LIVE FLORIST** will catalogue it this season, and to meet the popular demand we have secured 250,000 bulbs of blooming size.

We offer these at $3.00 per 100; $22.50 per 1000, packed and delivered f. o. b.

We also have a few bulbs of the **CRINUM NOBILE** that great average over 2 lbs. weight, at $35 per 100, and some fine **CRINUM AMERICANUM** at $7 per 100. These bulbs are all first quality and size. Order now, and be in time to insure your supply.

THE AMERICAN EXOTIC NURSERIES,
R. D. HOYT, Manager, SEVEN OAKS, FLORIDA.

C. H. JOOSTEN, IMPORTER, 3 Coenties Slip, NEW YORK.

ORDERS NOW BOOKED FOR FALL OR SPRING IMPORTATION FOR
HARDY ROSES, CLEMATIS, AZALEAS, ETC. from the Boskoop, Holland, Nursery Association.

Also NURSERY AND FRUIT TREE STOCKS from LENAULT HUET, USSY, FRANCE.
Catalogues on application.
C. H. JOOSTEN.

C. PLATZ & SON,
Wholesale Seed Growers, Merchants and Exporters,

—— ESTABLISHED 1756. ——

Furnishers to His Majesty The Emperor of Germany and King of Prussia,

ERFURT, GERMANY,

offer their very large stock of every kind of flower and vegetable seeds in finest condition, at lowest rates: Trade seed lists are now issued, and may be had free on application.

Mention American Florist.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN. CONN.

Clematis. Roses.

H. P. and Monthly, both pot and outdoor grown, good assortment, own roots, fine plants.

CLEMATIS, fine, well grown plants in choice assortment. Plenty of Jackmanii.

Prices very low, on application.

F. A. BALLER, BLOOMINGTON, ILL.
Mention American Florist

SMILAX.

2,000 strings, long and heavy, now ready.

PRICE, 20c. PER STRING. CASH WITH ORDER.

CHAS. POMMERT.
GREENFIELD, OHIO.

15 cts. SMILAX 15 cts.

Now ready, 5,000 strings of first-class Smilax for the Holiday trade. Long strings at 15 cts. each.

GEORGE H. BENEDICT,
Yorkville Greenhouses YORKVILLE, N. Y.

Chinese Narcissus.

Fine large bulbs, $7.00 per 100 to close out stock.

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY:
True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

ORCHIDS.

THE FINEST STOCK IN THE WORLD.
SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Mention American Florist.

Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10 00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII,

DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots, strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

V. LEMOINE & SON,
NANCY, FRANCE.

Catalogue of Novelties including **BEGONIAS, ZONALE PELARGONIUMS, GLADIOLUS, MONTBRETIAS, ETC., ETC.** now ready, and will be mailed free on application to their Agents,

C. C. ABEL & CO., New York.

Fresh Smilax Seed,

60 cents per Ounce.

A. G. FEHR,
No. 220 E. Main St., Belleville, Ill.

Keeping Carnation Flowers.

Will some of the readers of the FLORIST please inform me whether carnations will keep better on the plants or in water when open for a day or two, as I can not go to market every day? L. T.

[A well known carnation grower to whom the above was submitted for answer writes: "I have no doubt that the flowers will keep longer if cut off the plants, provided they are cut at the right time and given proper care afterward, such as changing the water and cutting a short piece from the stem every day or two. Carnations are frequently cut too soon, so that if your correspondent sends to market as often as twice a week there will not, in my judgment, be any necessity for his cutting the flowers before needed, cutting then only those that are fully 'ripe.' The cutting of carnation flowers at the proper degree of development is a very important matter, and I hope that through the medium of a discussion in the pages of the FLORIST the matter will be brought prominently to the attention of all in the trade."]

Fungus on Carnations.

Mr. P. J. Bauer, Cleveland, O., writes that his carnations are infested with a fungus apparently different from any yet described in the FLORIST. He first noticed it on his plants about a week after they were placed under glass and it spread so fast that it has almost ruined his Silver Sprays and Fred Creightons. He has been picking off all affected foliage, but this does not check the spread of the fungus to any appreciable degree. He desires to know whether any reader of the FLORIST can suggest a remedy other than throwing out the plants.

STOCK PLANTS OF
CHRYSANTHEMUMS.

JESSICA once more to the front. Those that had it, wished they had grown more. Those that had none, wished they had it.

NOW IS THE TIME TO ORDER STOCK PLANTS.

We offer Stock Plants of Jessica, 25c. each; Rohallion, the grand new early yellow, 25c.; Mrs Gerard, the earliest large pink, 25c. The best flowers of this variety wholesaled at 50c. each in the New York market.

These three varieties have now flowered and are ready for shipment. All other commercial varieties on hand and ready as soon as flowers are cut.

Orders filled in rotation. Do not delay ordering if you want these varieties as stock is limited.

THE OAKLAND ROSE NURSERIES,
BAY SIDE, L. I., N. Y.
Mention American Florist.

Jessica in the Lead.

This white variety was recommended by Mr. J. N. May, Summit, N. J., last year. This Chrysanthemum I grew this fall, and cut my first blooms Oct. 2, they being from 6 to 8 inches across. Also an immense stock of Glorlosum and L. Canning.

$2 a dozen; $15 a hundred.
ROBT. LUEPKE, E. Liverpool, Ohio.

STOCK PLANTS 15c. EACH.

Louis Boehmer, Lincoln,
Ivory, Lilian B. Bird,
T. C. Price, Snowball,
Kioto, Moonlight, Mrs. Alpheus Hardy.

These Chrysanthemums are all in 6-inch pots. These are for sale by CHAS. SCHLEETER, care S. J. Thompson, Louisville, Ky.

MUMS.

L. CANNING, LOUIS BOEHMER,
and 100 other varieties, from 6 and 8-inch pots $1.00 per dozen
M. B. SAUNDERS, Aurora, Ill.

TUBEROUS BEGONIAS.

LARGEST STOCK IN AMERICA.
BETTER THAN IMPORTED GOODS.

SINGLE. { MIXED, SELECT. per 100, $7.50
" " (small tubers). " 4.50
Choicest Seedlings, equal to named flowers, in 12 distinct colors and shades per doz. 2.50
DOUBLE. { MIXED. per 100, 10.00
" (small tubers) " 6.00
In distinct colors, White, Rose, Pink, Scarlet, Crimson and Salmon. per doz. 2.50
Choicest select Seedlings, in 12 distinct colors and shades " 4.00

SEED.

Our seed this season is extra fine; saved from our collection of over 200 named varieties, all carefully hybridized. We guarantee it not to be excelled by any Foreign house. January is the best month for Sowing.

SINGLE OR DOUBLE, mixed trade pkts. $1.00
SINGLE TO COLOR, White, Yellow, Rose, Pink, Salmon, Scarlet, Buff, Salmon Rose and Fancy. (Nine colors, $4.00), per pkt. 50 cts.
DOUBLE COLLECTION, 10 named varieties. $5.00
SINGLE VARIETIES by weight. 5 grains, $2.00, 1-32 oz. $5.00
DOUBLE " " " 5 grains, $3.00; 1-32 oz $7.50

New Descriptive Catalogue ready about January 1st.

F. J. MEECH & SON, CHARLEVOIX, MICH.

Mammoth Tuberous Begonias.

Strong and healthy bulbs now ready. Stock limited. Therefore order early.

Trade prices, assorted colors per 100, $6 00
Dark red, rose or brilliant red " 7 00
Whites or yellows " 8 00

T. H. SPAULDING, Orange, N. J.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. ROSES, 8 leading sorts.
VIOLETS, the Neapolitan. COLEUS, 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.

PALMS and DECORATIVE PLANTS

ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

PALMS and FERNS

Well grown Specimen Plants, fit for immediate use.

		Each.
KENTIA,	3 to 3½ ft. high, 6-inch pots, 7 to 8 leaves	$2.50
do	2 to 2½ ft. high, 5-inch pots, 5 to 6 leaves	1.50
do	1½ to 2 ft. high, 4-inch pots, 3 to 4 leaves	1.00
COCOS WED.	2 to 2½ ft. high, 6 to 8 leaves	2.00
LATANIA BOR.	2½ feet high, 6 to 8 leaves	1.00
PANDANUS VEITCHII,	2 to 2½ ft. 6-in. pots	2.00

FERNS.—Well grown plants in 3 in. pots, for fern dishes, etc., in following varieties:

Pteris Hastata, Sieboldi, Cretica and Alba Lineata, Davallia Stricta and Fijiensis, Lastrea Leptophyllum, Polypodium, Blechnum and Polystichum, assorted, at $10.00 per 100.

E. W. WEIMAR, Mt. Vernon, N. Y.
Mention American Florist.

Two Superb Plants.

ANTHURIUM SCHERTZERIANUM (Flamingo Flower.)

A grand scarlet flower of great substance and durability; when cut will last for weeks; long stems; grown easily as a calla. Two year old seedlings from one of the finest varieties in Europe, will bloom this winter.

3½-inch pots, Dozen, $6; 100, $40.
Extra strong plants, $1 to $50 each.

ASPARAGUS PLUMOSUS NANUS.

This elegant plant has no rival for cutting. Strong, in 3½-inch pots, per 100 $40.00.

12 HANDSOME PLANTS for DECORATION at ONCE, $6:
ARECAS, COCOS, DRACÆNAS,
ASPIDISTRA, Etc., Etc.
in 5 & 6-inch pots, 1 to 2½ feet, according to sort. P. O. B. same day as order received.

JOHN H. LEY,
TROPICAL NURSERIES,
ANACOSTIA, WASHINGTON, D. C.
Mention American Florist.

YOUNG BROS.,

WHOLESALE ❋ FLORISTS,

20 West 24th Street,

NEW YORK.

Thos. Young, Jr. CONSOLIDATED. **John Young.**

The Largest Wholesale House in the Country.

AGENTS FOR THE BEST GROWERS. **FLOWERS SHIPPED TO ALL POINTS.**

Special Offer.

	Per Doz.
CAMELLIAS, assorted, 18 in. high, 5-in. pots,	$6.00
JASMINE GRAND DUKE, 4-in. pots, in prime health	2.00
JASMINE GRAND DUKE, 5-in. pots, in prime health	3.00
JASMINE REVOLUTUM, 4 in. pots	2.00
FICUS NITIDA, 4 inch pots	2.00
FICUS NITIDA, 5-inch pots, 2 feet	2.50
HYDRANGEA HORTENSIS, 4 inch pots, 1 foot high, $17.50 per 100	2.50
DAHLIAS, large garden roots, fine assortment, $5.00 per 100.	
ADIANTUM CUNEATUM, fine stuff 5 inch pots, $20 per 100	2.50
GARDENIA FLORIDA, Cape Jasmine, 4-in. pots	2.00
PASSIFLORA ELATA, 4 inch pots	2.00
PASSIFLORA ELATA, 5-inch pots	3.00

Write for wholesale price list.

MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

You Can't Afford to do Without the

SNOWFLAKE DAISY

DON'T depend on us for the cut flowers, every flower we can cut is sold now, and as many more if we could get them; there is and will be a pressing demand for this inimitable flower; a few hundred pot plants still on hand, 3-inch, $5 00; 2-inch, $3 00 per 100 **5,000** clean, thrifty plants in flats, coming into bud and blooming, $2 50 per 100; $20.00 per 1000, (no more clumps). 1000 Bouvardia Davidsoni, 200 Mrs. Cleveland, (crimson), 200 Multiflora Pinks, $2 00 per 100. Variegated Vincas, field grown, 5 to 10 vines, 4 feet, $6.00 per 100; 3 to 5 vines $4 00 per 100. Eulalia Zebrina and Japonica, fine stock, first size $10 00; 2d size $8 00 per 100. Chrysanthemums, finest vars., 4-inch, $1.50, 6-inch, $2, 7-inch, $3, 8-inch, $5 per doz.; also **Cut Blooms** at 40-50c per 100, all colors. Early flowering Moonvines, 2-in., $3 per 100. No risk, satisfaction guaranteed or money refunded.

J. C. GIBSON. WOODBURY, N. J.
Mention American Florist.

CHRISTMAS ROSES.

THE LARGE WHITE FLOWERING VARIETY.

Orders are now booked for fall delivery. Having the largest home-grown stock in the world, and in splendid condition, I can do them well. Last year the large size produced over seventy flowers. For several years they have given the greatest satisfaction to my customers.

Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
2nd size	14.00	"	115.00	"
3rd size	10.00	"	72.00	"
4th size	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000)	2.50	"	23.00	"

Unknown correspondents are requested to add cash or good European references with the orders Orders can be executed at once. Special prices for bulbs and plants on application.

HERMAN BUDDENBORG, BULB GROWER,
Hillegom, - - Holland.

Association Flora, Boskoop, Holland.
NOW ON HAND IN NEW YORK:
25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other
PLANTS FOR FORCING AND DECORATING.
Address **P. OUWERKERK,**
P. O. Box 1845, NEW YORK CITY.
Catalogue on application.

Double White Primulas.

Fine plants from 3-inch pots, in bud and bloom, at $8.00 per hundred.

Address **A. R. REINEMAN & BRO.,**
39 Fifth Avenue, Pittsburgh, Pa.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

GEO. W. MILLER,
WHOLESALE ❋ FLORIST,
1748 N. Halsted Street,
Chicago, Ill.
ROSES AND PALMS A SPECIALTY.

HYDRANGEA THOS. HOGG
Strong two year old Plants for Forcing,
$10.00 per 100.
SAMUEL C. MOON
MORRISVILLE, Bucks Co., PA.

Size Versus Quantity.

I would like to reply to the item about "An original discovery or not," on page 260 of the FLORIST of October 29, '91.

I agree with the writer that the overhanging branches or vines bloom more freely than the vertical or horizontal growing vines. I have noticed this often in Marechal Niel and other roses as well as other vines.

But to try the same logic with grape vines would not be wise for the reason that the number of bunches of grapes is not what we want to increase so much as the quality of the fruit. It would be easy to produce a great number of bunches on a vine of certain size, but this would reduce the size of the bunches so much that the individual bunches would be almost worthless. This rule holds good both under glass and outside. Growers of grapes very often cut off a lot of bunches in order to give the remaining ones a better chance to attain size. All growers well know that three bunches of 5 lbs. each are worth much more than 15 bunches of 1 lb. each. A grape vine can not produce more than a certain quantity and the more you increase the number of bunches the smaller each one will be.

Anniston, Ala. F. J. ULBRICHT.

THE MANY new features to be added to the corrected edition of our directory will make it especially valuable as an advertising medium for the trade. Don't fail to have your advertisement in its pages.

VERY CHEAP TO MAKE ROOM.

	Per 100
4000 SMILAX, nice, 2½-in. pots, ready to shift	$ 1 25
1000 PRIMULA OBCONICA, strong, 2½-in. pots	2 50
1000 AMPELOPSIS VEITCHII, strong 2½-inch	2.50
500 DOUBLE SWEET ALYSSUM, nice, 2½ in.	2 00
1000 VIOLETS Marie Louise, strong clumps	4.00
2000 BEGONIA METALLICA, good, 2½-in. pots	3.00
1000 BEGONIA ALBA PICTA, good, 2½-in. pots	3 00
1000 BEGONIA LOBATA VAR., good, 2½-inch	3 00
500 BEGONIA RUBRA, ALBA and SAUNDERSONI, 3-inch	3.00
5000 COLEUS, well assorted; GOOD sorts, 2-in.	2 00
1000 ROSES Cath. Mermet, nice, 3-inch pots	5 00
500 ROSES Marechal Niel, nice, 3-inch pots	6 00

Address **N. S. GRIFFITH,**
INDEPENDENCE, MO.
(Independence is well located for shipping, being 8 miles East of Kansas City, Mo.)

Rooted Cuttings of PETUNIAS AND VERBENAS.

We have all the orders we can fill to **JANUARY 15th.** Orders received will be booked and filled in rotation as received as soon as possible.

We have no price list, but use this space to let you know what we have. Of most sorts the color is printed on the label. We have now ready Ageratum White Cap, and a good blue sort; Alternanthera p major and aurea nana, and Cuphea (cigar plant), for 50 cts. per 100 by mail. By Dec. 20 will have 10 varieties of Geraniums, $1 20 per 100 by mail; $1 00 by express.

Cash with order. Not less than 10 of a kind.

S. O. STREBY,
Lock Box 77. *UPPER SANDUSKY, OHIO.*

WATER LILIES.

15,000 Nymphæa odorata rosea,

AND ALL THE OTHER LEADING SORTS.

SPECIAL TRADE OFFER. Send for List.

BENJ. GREY, Malden, Mass.

THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

Immortelles,
Red, Pink, Cardinal, and Berry Red, White Purple, Yellow, Green Blue, etc., at remarkably low prices.

Baskets,
Imported and Domestic, in all styles and prices.

Doves, very fine.
All positions. Cheap.

CELLULOID POT COVERS,
In various new styles. One of our Specialties

Etc., Etc., Etc.

BUY NOW

FOR THE

HOLIDAYS,



—AS OUR STOCK OF—

FLORISTS' SUPPLIES

IS COMPLETE FOR

—XMAS.—

Respectfully yours,

PHILA. IMMORTELLE DESIGN CO.

725 Arch St., Philadelphia, Pa.

Wheat Sheaves,
Made of finest Italian Wheat. Flat & Standing.

Cape Flowers,
Red, Pink, Yellow, Blue, Garnet, Green, Purple, White, Etc. Send for quotations.

Chenille,
Silk and Worsted, all shades. Thin, Medium and Heavy.

Etc., Etc., Etc.

EVERGREEN WREATHING.

WELL WOUND ROPING OF SELECT GREEN.

LIGHT GRADE	per 100 yards,	$3.00
MEDIUM HEAVY GRADE	" "	3.50
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Liberal discount on large orders.

Holly Wreaths, 12 inches in diameter, $2.25 per dozen.

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6 and 8 North Clark Street, CHICAGO.

GREEN AND HOLLY!

The "Get There" brand; and if you like that kind, ours is the kind you like.

J. C. VAUGHAN, Box 688, CHICAGO.
[Greenhouses Western Springs.] Wire address, 148 W. Washington Street.



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3,000,000 EVERGREEN CUT FERNS NOW READY.

Special attention paid to supplying the wholesale trade.

Single thousand, $1.25; in lots of five thousand and upwards, C. O. D., $1.00 per thousand.

per barrel; 6 barrels, $5.00. 20 barrels, $15.00.

SPHAGNUM MOSS. Long, clean fibre, hand sorted, DRY or GREEN, $1.00 BOUQUET EVERGREENS, $2.00 per barrel.

L. B. BRAGUE, Hinsdale, Mass.

TO THE TRADE.

We can furnish for Holiday trade fine Tuberoses from open ground, each stem will cut 8 to 12 flowers; price 50c. per stem by the 100.

Try our wild flower seed collections, a fine assortment, $1 per oz.; $10 per lb.

Send for trade list of new plants.

WE WANT LARGE CAMELLIA PLANTS. Send us lists of what you have, and price.

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California Nursery. GUADALAJARA, MEXICO.

XMAS PRICES.

Balsam and Spruce, first-class forest grown, f. o. b. here, 4 to 5 ft. 10c; 5 to 6 ft. 14c; 6 ft. 18c; 7 ft. 25c; 8 ft. 35c; 10 ft. 50c; 12 ft. 65c; 14 ft. select, $1; 16 ft. $1.50; 18 ft. $2. 5 per cent off 100, 10 per cent off 200 tree lots if ordered by Dec. 1st. Bouquet Green, $5 per 100 lbs. Wreathing, light $3, medium $4, heavy $5 per 100 yds. 10 per ct. off 500 yds. and more. Holly, bbl. $2 25. Long Needle Pines, 35c. Chamærops Palm Leaves, $4 per 100. Chamærops Crowns, large, 75c; small 35c. Wild Smilax $3 50 per bbl; $7 per case. Fern leaves $1.50 per 1000. A full line of other Decorative goods. Send for a complete list and telegraph code. Quick shipping facilities; four through roads. Also sphagnum Moss, large bales, $1 50. Rolled Peat $1 per bbl. Terms cash with order or bank reference. Note, this ad. only appears every other week

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FOR HALL AND WINDOW DECORATION.

NARCISSUS, ROMAN HYACINTHS and LILY of the VALLEY, in pans.
PRIMROSES, in pots and pans. FERNS, for jardinieres; JERUSALEM CHERRIES, Etc.

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38 Wayland St., DORCHESTER, MASS.

PAMPAS PLUMES,

30 inches and upwards.

FIRST-CLASS.

Per 100, $3.50; per 1000, $30.00. Colored, medium, per 100, $8.00.

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13 Green Street, BOSTON, MASS.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1⅝-inch and 2-inch, $2 00 per 100. Patent fastener with each letter.

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WISCONSIN FLOWER EXCHANGE,
131 Mason Street, Milwaukee, Wis.

Mention American Florist.

HOLIDAY BASKETS,

Holly, Green,

MISTLETOE.

Immortelles, Violet Foil, Fancy Boxes, and all Florists' Supplies furnished by

AUGUST ROLKER & SONS, NEW YORK,
136 & 138 W. 24th Street, or Station E.
Mention American Florist.

H. BAYERSDORFER & CO.,

WHOLESALE

FLORISTS' SUPPLIES ONLY,

50 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

FICUS ELASTICA.

Very fine foliage.

18 to 20 inches high, from pots, $6 per doz.
24 to 26 inches high, from pots, $9 per doz.
And larger sizes from $1 to $8 each.

JOHN THUMANN,
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FROM 2½-INCH POTS,
$3.00 PER HUNDRED.

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you know all about it, but do you? The use of LONG'S FLORAL PHOTOGRAPHS while taking orders of your customers will do more for you over and again than you might think. A trial is convincing to any enterprising florist. Circular list with prices, free.

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Tobacco Stems.

I make a Specialty of packing stems for flower growers.

Prices and references sent on application.

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417 E. 76th Street. NEW YORK CITY.



Kills Mildew and Fungus growth. What does?

GRAPE DUST.

Sold by Seedsmen.

No Trees LAST & BEAR like WHOLE ROOT Trees; see "Fruits and Fruit Trees"—Free. *Amer. Garden* says: Novel, USEFUL, to the point. *Orange Judd Farmer*: Ably written, gives trusty INFORMATION. *Cal. Fruit Grower*: Surprising LOW prices! Apple, Pear, Cherry, Plum, PRUNE, Peach, Ap't, Quince, Nut, Or. Trees, Grafts, ROSES—*everything*. No larger stock in U. S. No BETTER. No cheaper. STARK BROS., 31st St., Louisiana, Mo.—Founded 1825; OLDEST. 1000 Acres; LARGEST.

A FEW POINTS ABOUT OUR NEW DIRECTORY.

POINT 1.—The new book will contain an accurate list of those in the trade on the Continent of North America, January 1, 1892.

POINT 2.—In addition to the above it will contain the statistics of the Florist, Nursery and Seed Trades from the last census.

POINT 3.—It will also contain a complete list of all National and Local Trade Organizations, with just the information about each that you want to have convenient for reference.

POINT 4.—It will contain an alphabetical list of Roses, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

POINT 5.—It will contain a similar list of Chrysanthemums, also up to date. One that can be relied upon as authoritative.

POINT 6.—It will contain a similar list of Carnations.

PRICE ONLY $2.00.

? Can you afford to be without this book? We don't believe you can.

SEND IN YOUR ORDER NOW.

AMERICAN FLORIST CO.,
54 La Salle Street, CHICAGO.

J. Horace McFarland Company.

INCORPORATED 1891.

How does that look? It means that I have got to say "we" now, because there are more of "us"; but I'm in good company, I believe! Well, then, "we" are bigger than J. H. McF. all by himself, and we've enlarged, increased and extended his facilities for doing the right sort of printing for florists and the other plant and tree people. A fine new electrotyping outfit and a lot of other new machinery will help the Company to keep J. H. McF. hustling after work, and doing it! The florists are responsible for this move, and they want to notice that we're ready to do Catalogues in great shape at the Mount Pleasant Printery, and do them on time. Write to

J. HORACE McFARLAND COMPANY, Harrisburg, Pa.

[*P. S. by J. H. McF.*—The "we" will go better after a bit. Just notice that I'm right "in it" yet, at the same old stand, and the others are helping me to do better for all of us, and you!]



If you wish to illustrate your Printing with Cuts, send 50 cents for my Catalogue of FLORAL ELECTROS—2,250 Engravings.

A. BLANC, PHILADELPHIA.
Catalogue of Cactus plants free.

HAIL Lock the door BEFORE the horse is stolen. Do it NOW!
JOHN G. ESLER, Sec'y F. H. A.,
Saddle River, N. J.
Mention American Florist.

OUR

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ARE MADE BY

J. MANZ & CO., Engravers,
107 Madison Street, CHICAGO, ILL.

Their work in this journal speaks for itself
Publishers AMERICAN FLORIST.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.



The advocate of the chrysanthemum victorious in a little dispute as to the proper flower for a fashionable boutonniere.

The Chrysanthemum as a Gentleman's Boutonniere.

The chrysanthemum reigns supreme in swelldom for gentlemen's as well as ladies' wear. But in an evil hour at aristocratic Tuxedo, near New York, the other day the fragrant gardenia presumed to snatch the honor from the Autumn Queen. Pell mell on sweet gardenia's nose and with divers other body blows the champion of the queen arose the victor. Poor gardenia's advocate, bruised and bleeding and in a sorry state, has got experience and is now laid up for medical repairs.

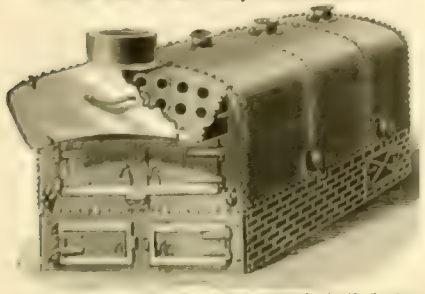
They Reminded Him.

The use of "gladioluses" as the plural of gladiolus reminds me of a good old story in which a similar plural of crocus got one party into an uncomfortable position.

Some 25 years ago when the Board of Education was examining the pupils in the primary grades of the schools in New York city, one of the gentlemen in addressing a class of little girls compared them to crocuses as early flowers of spring. Among the guests of the board was an ordinary city alderman, who after the examinations were over, went celebrating on his own hook and late in the day he addressed a circle of girls whom he as city father or any other kind of a father should have avoided while in his condition. In his oration he attempted to make use of the expression he had heard used so effectively in the morning. He said: "You remind me of-hic-you remind me of-hic-of some sort of cusses."

FLORIAN.

KROESCHELL BROS.
IMPROVED
Greenhouse & Boiler,
41 to 55 Erie St., CHICAGO.

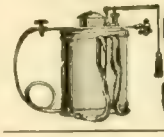


Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.
Mention American Florist.

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A. H. Hews & Co.
Wish to inform their customers that notwithstanding the recent diastrous Fire in their factory, through the kindness of their friends in the trade, they will be able to fill all orders which they may receive, with an excellent quality of
STANDARD FLOWER POTS.
All orders will receive prompt attention.
We are now rebuilding, and hope to be able to furnish our own Superior Flower Pots in a very short time.
A. H. HEWS & CO., CAMBRIDGE, MASS.

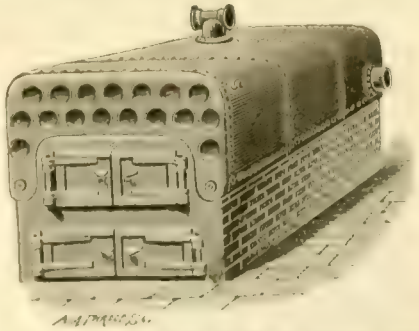
"STANDARD" FLOWER POTS.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Pottery Company
Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.
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STANDARD FLOWER POTS.
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Not only are our pots lighter in weight and yet as strong as any other pot on the market, but our way of packing for shipping will cause you to pay for the smallest dead weight possible. These two items we claim will save you one third in freight charges. To prove this will send circulars, showing number of pots in crate and weight of same, with freight rate per 100 pounds to any point.
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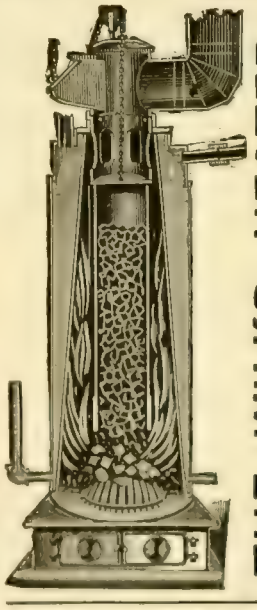


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THE FLAT TOP TYPE
Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of four-inch pipe
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FOR HEATING
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Manufactured by
N. STEFFENS,
335 East 21st Street. - NEW YORK.

BEED & KELLER
MANUFACTURERS OF FLORISTS' WIRE DESIGNS
122 W. 25TH ST. NEW YORK

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WITHOUT A RIVAL EITHER IN COST, SPEED IN OPERATING OR SECURITY IN CASE OF STORMS.



— MANUFACTURED BY —
QUAKER CITY MACHINE CO.,
1108 and 1110 North E Street,
RICHMOND, IND.

WHEN WRITING FOR ESTIMATES, PLEASE GIVE FOLLOWING DIMENSIONS:

1st. Give the number of sashes to be lifted.
2nd. Give the length and depth of sashes, (depth is down the roof.)
3rd. Give the length of house.
4th. Give the height from the ground to the comb of roof.
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CYPRESS GREEN HOUSE MATERIAL

CLEAR CYPRESS SASH BARS

HOT BED AND VENTILATING SASH

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SASH BARS

VENTILATORS, RIDGES, GUTTERING AND LUMBER.

NO WIDE-AWAKE FLORIST need be told it will pay him to use SASH BARS, etc. made from

CLEAR CYPRESS.

Bars all Shapes up to 20 feet long.

☞ Send for circulars and estimates.

LOCKLAND LUMBER CO.,

Hamilton Co., LOCKLAND, OHIO.



GREENHOUSE HEATING AND VENTILATING.

Superior Hot Water Boilers.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.

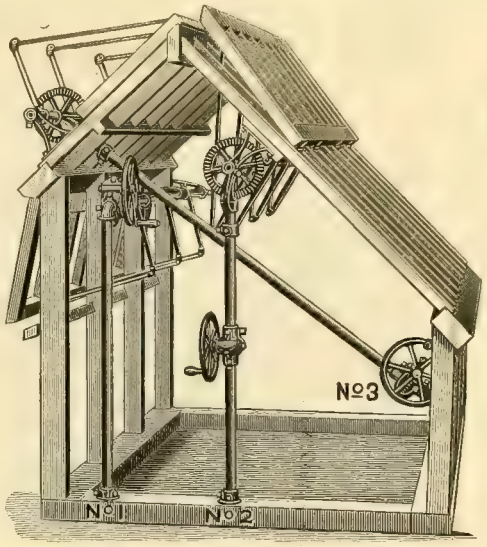
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MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES.



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Received best Awards at

BUFFALO, N. Y., BOSTON, MASS and TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD,

Youngstown, Ohio.

FOSTER'S GREENHOUSE BOILERS.

HIGHEST AWARD Florists' Convention, 1890.
First-Class Certificate Merit for Steam Boiler.
First-Class Certificate Merit for Hot Water Boiler.
HIGHEST AWARD Mechanics Charitable Association, Boston, 1890.

GOLD MEDAL FOR SUPERIORITY. ——→

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Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

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Sizes, ⅛-inch to 42 inches diameter.

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ROSE HOUSES, CONSERVATORIES, ETC.

Our glass received the Highest Award at the Boston Convention of the S. A. F.



ALL SIZES OF SINGLE AND DOUBLE THICK

GLASS FOR GREENHOUSES.

— ALL GLAZIERS' SUPPLIES. —

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34, 36, 38 & 40 So. Water St.,

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Can furnish promptly and at bottom prices all sizes of Single and Double Strength Glass for Greenhouses.

MAIL ORDERS RECEIVE CAREFUL ATTENTION.

No More Leaky Sky Lights

Or Slipping and Breaking of Glass in Green Houses or Farmer's Sash. You can save money and glass by using the



PATENT GLAZIER Twin Points.

THESE POINTS are far superior to the old mode of setting glass, as they will hold each pane in place, preventing the glass from slipping and causing binding and cracking. Each box contains 500 rights and 500 lefts. We also make a tool for driving the points. **Price, 35c a Box. Driver, 15c. A Liberal Discount to the Trade.**

These points are kept by all prominent Hardware, Paint, Oil, Seedsmen, and Florist Supply Stores in the country. If you do not find them, send postal for a free sample, or send 69 cents for 1 package and 1 driver by mail, post paid to any part of the U. S.

H. W. EAMES CO., Milford, Mass.,

FOR Florists, Nurserymen & Seedsmen

GEM STEEL WIND ENGINE AND GEM STEEL TOWER



The **GEM ENGINE**, when furnished with Graphite Bearings, requires no oiling, no climbing of towers, no hinged or frail-jointed towers and practically **no attention**, yet is more durable than other Wind Motors that require all this, and more unique in finish. The **GEM TOWER** combines beauty, strength, durability, simplicity to the greatest extent and has no equal. Both are manufactured and guaranteed by the oldest and most reliable Wind Mill Company in existence, and who build the **Halladay Standard Pumping** and **Geared Wind Mills**, the **Standard Vaneless** and **U. S. Solid Wheel Wind Mills**, Pumps, Tanks, Horse Hay Tools, &c. No other company offers equal inducements. Send for Catalogue and Prices.

BRANCH HOUSES: Omaha, Neb.; Kansas City, Mo. DEPOTS: Boston, Mass.; Fort Worth, Texas.

"S. WIND ENGINE & PUMP CO.
BATAVIA, ILL., U.S.A.

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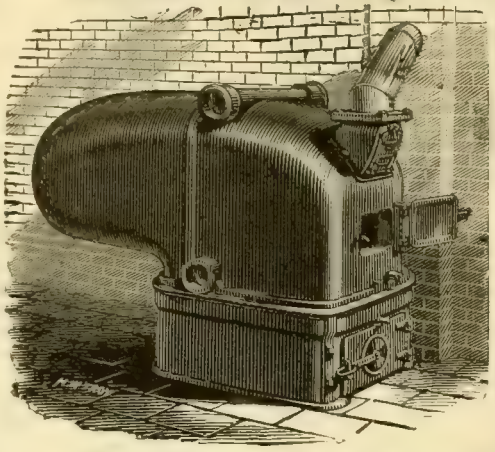
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THE NUMBER of changes in the list of florists, nurserymen and seedsmen, as shown by the states already compiled for our new directory, is surprisingly large. Though a great many have dropped out the enormous number of additions will swell the list very considerably over its former dimensions, and show that the trade is still growing very rapidly.

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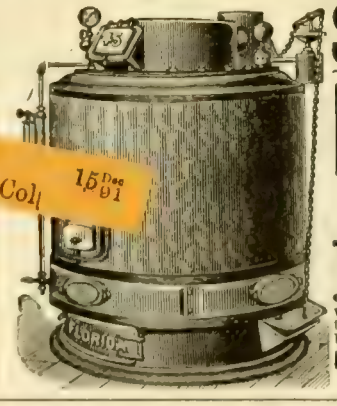
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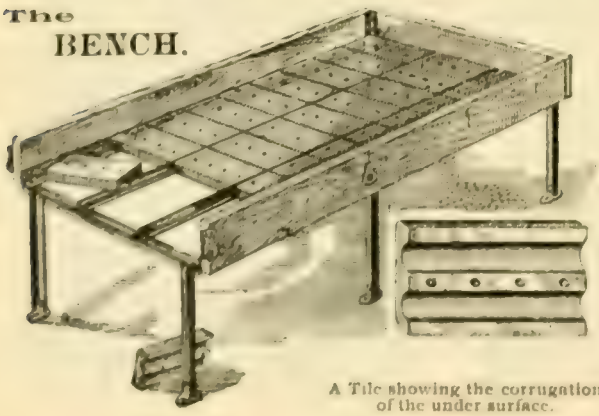
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THE AMERICAN FLORIST



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Vol. VII **CHICAGO AND NEW YORK, DECEMBER 24, 1891.** **No. 186**

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JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

AMERICAN CARNATION SOCIETY.
EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., president; C. J. Pennock, Kennett Square, Pa., secretary. First annual meeting and exhibition at Buffalo, N. Y., February 16, 1892.

FLORISTS' PROTECTIVE ASSOCIATION.
Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BEATTY, Sec'y, Oil City, Pa.

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WE WISH a busy, profitable and merry Christmas and a happy New Year to every reader.

DON'T FAIL to have your advertisement in the forthcoming corrected edition of our directory of florists, nurserymen and seedsmen of the United States and Canada—that is if you have anything to sell to florists, nurserymen or seedsmen, and it is something that is needed by them. Write for rates if you do not already know them.

Personal Recollections of Louis Menand.

II.

I shall pass over all my tribulations during the year 1829, the most unlucky and inauspicious of my life. At the close of that year I had the good luck to find a situation where I found a library at my disposal. I fell on one work by Lamarck and Decandolle, "La Flore Francaise," which work *revolutionized* the course of my ideas and opened a new field to my ambition for new studies, a study not exactly connected to horticulture, but which absorbed me at once—the study of "wild plants," if that expression is proper, and especially "Cryptogamous plants." Every one who knew me, when I told them my discovery of that book laughed at me and said in plain language that I was a *down right fool*. I admitted the epithet, but did not change my mind. What a stupid idea will say my acquaintances *of to-day*, to study "cryptogamy" to be a florist, "it is absurd!" Be it so, but paradoxical as it may be, it has been more beneficial to me than growing coleus at 75 cents per 100!! It has in the first place given me *self gratification!* It has systematized my ideas in theory and in practice. It has brought me in contact with people that would otherwise never have looked at me. When later I made up my mind to cultivate exotic plants, such as ericas, banksias and all kinds of New Holland plants, I was saluted with the same reverence; I was a fool! Such business would not pay, etc. etc.

But I perceive that I am overflowing on my subject. I am anticipating upon the future by 50 years. So I return to the first reading of my *French Flora* and the cryptogamic ideas it wove in my brain! Cryptogamic indeed! since they were not understood. In the beginning of 1830 I had to leave my library and its books to settle a short distance further, but always in the precincts of Paris. It was my fourth year of gravitation around that luminous terrestrial planet, that was soon to be more luminous by kindling that "Three days revolution!!" Revolution that I wished and expected since two or three years, at the time I laid down the plan—the foundation—of my religious and political creed, with that aphorism: "No kings! No Medium between Man and Heaven (or between Heaven and Man), every one his own arbitrator, free will! in spiritual affairs."

That year 1830 to April, 1831, closed what I would call the *first phase* of my life. Then I left Paris and went to take possession of a situation as a gardener in the province "Champagne," the classical land of the wine so-called, where I lived over six years, the quietest period of my life. There I could study without being sneered at, but on the contrary I was encouraged to do so. But alas! as before I could not understand the meaning of Latin and Greek names of plants, and at that time we had not such a valuable work as Mr. Nicholson's "Dictionary of Gardening." Somewhat as by intuition I understood or *guessed* that such adjectives as grandiflorus, grandiflora and grandiflorum meant large flowers, but I was perplexed about the termination in *us*, *a* and *um*. How I sighed at my ignorance, and no way, I thought, to learn, for I was as most young men were, and still are to-day. If you have not received a collegiate education when young you can never get it after, especially when you are deprived of means. Notwithstanding that drawback I felt that I could do something. I was determined to try. One day I heard of a certain gentleman—a notary public who was managing the financial affairs of my employer (an old lady)—who was a *good* Latinist. He was not, but he put me in the way of doing something to enlighten me on the subject. So the first time he came to the place I watched for him and introduced myself. With a book in my hand I told him what I had heard of his knowledge, etc. etc. He sharply looked at me and said: "What do you want of me?" I showed him my adjectives in us-a-um, etc., and I told him I thought they meant so and so. He looked at me between my two eyes and gravely told me: "If you know that why do you ask me?" I answered that I thought I knew but was not certain, but what I know not are those terminations, etc. "Those terminations," he said, "are masculine, feminine and neuter, and if you know as much as you evidently seem to, get a Latin grammar and in a few days you will know as much as I do." "To get a Latin grammar I shall have to go 12 miles to get it" (we were in the country). "I know it," he said, "but to-morrow I go thither (to Reims, the next city) and I shall bring you one." I made the remark that a grammar would not give me all the information I wanted. "I must have a dictionary of French and Latin and Latin and French." My employer—who was present—said: "Bring him also those dictionaries, etc." He put his hands on my shoulders and said: "Young man, if you have *guessed* all that you have told me you will go far, and when you have looked over your grammar for a few days come and see me at my office to show me your progress in *guessing* Latin." I went to see him two or three weeks after and I found that if he was not a good Latinist he was a *good man* and he gave me good advice. He kept me two or three hours, talking politics, theology, literature, etc.

I will continue my course for a little while longer on the European continent, then I shall sail for the western hemisphere, my adoptive country, where I have *lived happy*!! for 54 years, less a fort

night when *dark clouds* suddenly *eclipsed* forever *my sunshine*! *half of my life*—my Egeria! my wife - - - - - . You will please excuse the above extemporaneous digression. I could not refrain doing it. It choked me - - - - -

I resume the narration of my studies. I was in possession of the instruments, books, to elucidate the meaning of words stuffed in my head. The first night I got that grammar I did not sleep much. I spent most part of it to decline the first declension: penna, pennæ or rosa, rosæ, etc., and went to bed reciting:

Nominative rosa; Genitive, rosæ; Dative, rosæ; Accusative, rosam: Vocative, o rosa; Ablative, rosa;	Here I decline rosa! as a compliment to our friends the rose growers.

When I say I did not sleep much, to tell the truth I don't think I slept at all, for I think I was still humming "Nominative rosa" when I opened my eyes and saw the light, or rather the dawn of day, as the dawn of my notions, dusky! It was a Sunday morning in June and I intended to go herborizing, so I got up, took up my herborizing box and started across meadows, woods, swamps, etc. I had walked a considerable distance when I found myself on an eminence, wet above the knees by the dew and not feeling too comfortable, when I turned round and I saw the rays of the sun emerging out of the horizon. I was dazzled by the sublime magnificence of that *Light God*!! that *supreme unknown*!! For awhile I forgot my grammar, the cryptogamous and phanerogomous plants. The whole nature, the creation, which I was contemplating with so much admiration that all my moral, intellectual faculties were - - - - - I could not analyze them, was so bewildered it took some time before I could realize where I was, my blood still in ebullition and my legs cold, but it did not last long. That *God-Light* soon warmed me again and when I got over my ecstacy I began to realize I had often seen a rising of the sun, but never in such a circumstance. So I immediately resumed my search for a certain plant, of which I scented the smell before I saw it. I was trampling it under my feet; it was an orchideæ, "Satyrium hircinum," a well baptized plant, from its horrid he-goat's smell. This is another digression—perhaps out of place—but it is an incident of my life and I "sketch it!" And I have many more incidental episodes to relate, but I shall pass them over, or most of them.

I went on with my studies of Latin and cryptogamy and a few other odd ideas, notions, etc. I progressed moderately well. The first use I made of my embryonic knowledge of Latin was quite a diminutive triumph for my vanity. I can not refrain from recounting it.

I had a young man working with me who was going to marry. One day he asked me if he could not have half a day to go and see his betrothed. I told him he could, but I told him jokingly: "My dear fellow, if you marry before the priest you will have to go to confess; if not he will not marry you, but if you give up the religious ceremony and get satisfied to be married before your Maire or any other official, all right! As the French law does not recognize the religious ceremony as legal, you can choose." He answered me that he would not go to confess and would get married! "Well, do as you please," I responded. When he came to work the following day he showed me a sheet of paper folded in four parts, not sealed, nor any envelope at that time. It was a certificate about his morality. No, I forget now, but at the bottom of that document there was a postscript in Latin that he could not understand—the reason I suppose that he showed it to me. That postscript was to inform the priest who would marry him that he (the one who had written it) had not heard the confession of the bearer. It was short: "Domine, Non audivi confessionem. Johan - - - " etc., I can not remember names. After reading it I told him "You have not been to confess." "How do you know?" he replied, looking at me with a change in his countenance, turning pale as if he had committed a crime. "Well, I know it. Do you not know that heretics, free-thinkers and 'bloody Republicans'—as they called me—as they called us—can guess a good many things! Besides this paper tells me that you have not." "What shall I do?" he asked in a tremulous voice. By that time I had returned his paper. "Give it to me again; I will fix it all right." I folded the bottom of the paper containing the P. S., cut it off and handed him both the certificate and the P. S. and told him "Now you can do what you please; give both to the priest or only one and he will marry you if you care for the religious ceremony. If not get the Maire of your village and he will marry you and that is the only legal marriage according to French law. He got married, but I never heard anything about the particulars, the conclusions, nor did I care, I had the fun; that's all I wanted.

From this stage of my condition in that place, until June, 1837, I have not many incidents of my life to relate, besides what I said before, only that new ideas added to old ones, were constantly fomenting in my brain, owing to my solitary life, for I had nobody with whom I could exchange my views, my conceptions, except some occasional correspondence with acquaintances in Paris. The revolution of 1830 had disappointed me; from that event I had expected the proclamation of the Republic, laws more liberal, universal suffrage; instead of that, and thanks to the influence of General Lafayette and other lukewarm Republicans of the same school, we had another King. The political and religious constitution did not suit me and every day I was sighing for the moment I would have money enough to quit France. I tried to get a situation under the government to go to Madagascar, but the man who could get me the position would not do it; he had been there two or three years and had been sick all the time, etc. etc. "I am sorry." "I too," he said, "though you are one of those d—— exalted Republicans who frequently compel us National Guards to take our muskets to quell your stupid notions of Democracy, etc." He was a good man enough but he was gangrened with royalism, more royalist than the King; one of those philosophers of the school of the *stagnants*! His ideas were flowing only when he was at the head of his company of the militia to hunt the Republicans, whom I must say were not all saints, far from it, but brutal force is a poor way of civilizing men. Under Louis Philippe *emeutes mobs* were of daily occurence.

All these things did not help me to cherish my native country, inasmuch as I had already adopted that service: "Ubi Libertas ibi patria"—"Where liberty dwells, there is my country," and that country I contemplated should be the United States of North America. With all such reflections maturing in my mind I determined to move onward, so immediately I made my preparations to leave my situation, and in a few weeks I was in Paris on my way to Havre. Before leaving Paris I stopped with a friend for a few days, during which he took me to the "Sorbonne," one of the oldest universities in the world, to attend a lecture on botany by the LAST of the *Jussieus* (Adrien de Jussieu), a family of savants. While there I met a great many young students, lawyers, physicians and other philosophers in embryo, who, when they understood I was going to America, flocked around me and asked me without any ceremony if I would send them specimens of American plants for their herbaria. I replied in the same tune; that I was just going to cross the Atlantic to collect them, etc. etc. One of them especially clung to me, with a specimen plant the professor was to lecture on and asked me if I would tell him the name! To that question I asked him how long he had been attending the lectures. He replied "two or three years." "*Three years*! and you do not know that plant that grows on the old wall of your father's garden?" It was Linaria cymbalaria, and in three years he had not been able to know that plant. After the lecture was over I asked my friend if there were many students of the same stamp as the one who had asked me the name of a plant growing with him. "No," he said, "not perhaps over two-thirds!!" We went off making comments on the young "savants" we had just left. All of them had received a *college education*.

On the last day of July, 1837, I left Paris for Havre, whence I sailed for New York, where I landed on the 7th of September, 1837.

Then I was on *free*! *land*—with *slaves* not far off, held in bondage by another class of philosophers, of the school of the "Roman patricians," who, like Brutus, who stabbed his father, Cæsar, because he was a tyrant, and he at the same time compelled his slaves to fight against wild beasts in the arena for his distraction. Here allow me a short digression. I have omitted above that before landing and passing at the custom house a countryman of mine, a *sort* of lawyer, asked me: "When the custom house officers will ask you 'what is your profession' what will you answer?" "Of course I will answer that I am a gardener," I replied. "You are a fool if you do that," said he. "Why do you not say that you are a *botanist*?" I could not help laughing and answered him "I suppose I am a botanist as much as you are a lawyer. Probably better, for I know a cabbage from a lettuce, and you, you do not know the difference between a *lawyer* and a *liar*! which for me are often synonymous expressions." When we passed the inspector he was first. He said he was a lawyer! They laughed for a few seconds, then they asked me "Are you a lawyer too?" "No, I am a gardener." "Good!" said one of the inspectors in French, "you have a better chance to find employment than your friend." He was not my friend. He tried to be, but in vain, he got my contempt.

I was in New York, but I had very little money. As a compensation I had quantities of letters of recommendation to people in New York, Philadelphia, Washington, New Orleans and Havana. In this last city I had almost the certitude of a situation as curator of a botanic garden under the governorship of General Tacon, but my desire to learn English made me give up all the recommendations except those for New York, one for



TULIPS AT WASHINGTON PARK, CHICAGO. NO. 1.

Dr. Torrey and one for Mr. Geo. Thorburn. In a few days I had employment with the latter at Astoria, L. I., then "Hallett's Cove." It was only a year or two later that that village was named Astoria from J. Jacob Astor, who had given $10,000 for the *christening*, etc. There I began to work my salvation material and spiritual digging up of the ground to plant trees and shrubs, and the English grammar, to find the "roots of all evils." I have found some but have worn out many spades before I could rest on the laurels that I have cultivated for 54 years. It is in Astoria that I found the greatest number of the cryptogamous plants which I have sent to France. It was at Astoria also that I found the best specimen of the animal kingdom's production, "*a phanerogyne*!" whom I have lost in 1890 - - - - - - . That phanerogyne was not indigenous to Astoria, but was a British production of British and French blood. This plant I have cultivated for 50 years, less a fortnight. When I saw it for the first time I was somewhat puzzled, but in a very short time I found I had discovered a typical form of vegetation and felt wonderfully anxious to have it in my herbarium. But it was not an ordinary specimen of vegetation that one can put between two sheets of paper and dry it. Nevertheless it took me over two months and a considerable number of sheets of paper and ink, with all the quintessence of my rhetoric before I could *press* it. Many will think I knew something about it before my finding. No! nothing at all. Not even its vernacular name, and in less than two hours after my discovery of this *rara avis* it had flown toward the north pole, Albany. When I heard of that flight I thought I had been mystified, and yet I thought I had been able to read the inner nature of my plant. So I had. I found it thereafter, to my jubilation. But since - - - - - . Oh Phanerogyne!! *of half of my life*, of my soul! once more! adieu! adieu forever! adieu tonjours! Vale æterorum!! - - - - - . Here ends the second phase of my life.

Tulips at Washington Park, Chicago.

We present in this issue two views engraved from photographs of sections of the tulip beds at Washington Park, Chicago, as they appeared last spring when in their glory.

In plate No. 1 the varieties shown are Belle Alliance, Yellow Prince, Imperator Rubrum, Cottage Maid and Lacander.

Plate No. 2 shows a bed containing Cottage Maid, Canary Bird and Kaiser Kroon.

The tulips were planted in broad bands through the lawn instead of in beds, one of Supt. Kanst's ideas, and the effect was very rich. The restful effect of the broad stretch of deep green lawn between the bands of tulips was a feature of the planting that does not show very prominently in the photographs.

Some Questions of Art.

THE CHRYSANTHEMUM SHOW.

Under the above heading the New York *Sun* of Sunday, Nov. 8. had rather a biting article. In an artistic sense all was wrong. The gardeners here can grow flowers all right, it states, but they have no idea of art in arrangement or color. Poor fellows! I wonder who we are or what we are good for anyhow? The World's Fair folk say we are simply artists and know nothing about business management, and the *Sun* says we aren't artists at all.

The "exhibition was not beautiful as a whole, nor in any part of the vast amphitheatre could one find a flower or a group of flowers where art in arrangement had given full play to the beauty which nature and the horticulturist had produced hand in hand."

"At the orchid show last winter * * the effect was attractive enough to hint at the future possibilities of success. But this year the bright and showy effect which some folk mistook for beauty was the result simply of masses of crude color spread in all directions, of hundreds of hanging Japanese lanterns and at night of thousands of electric lamps. It was painful to think what a Japanese would have said to such a show."

The orchid show was a one-man affair and every plant and flower exhibited were absolutely at his own command to do with as he pleased and arrange as he

pleased. On the other hand the chrysanthemum show was an open competitive exhibition and for comparison's sake the entries in each class had to be staged alongside of each other, also the different classes of each section, thus compelling a formal arrangement. The Garden Company or its committee of arrangement could not alter this condition of things.

The "floral booth" also comes in for an ill deserved snub. But worse than this booth

"Was an architectural construction—a sort of shrine with floor, columns and canopy entirely composed of blossoms of every kind in patterns of crudest colors and in its centre an urn built in similar fashion, from which dropped a mass of more loosely arranged flowers."

Here the *Sun* was right. We have long since passed this nonsensical sort of floral decoration. The laughing banjoist darkey at the exhibition at Boston at the convention of the S. A. F. a year ago was of the same era and the black eye poor Sambo got and his peremptory kick out of the exhibition should be a lasting lesson to designers of the ridiculous in flowers.

"Almost as awful was the sight of the shelves where glass and pottery 'appropriate' for the holding of flowers were displayed."

Not being versed in art in pottery (or as I am a gardener, in art in anything else according to our critic) I have no comment to offer in this case.

"Awful, too, were the dinner tables decorated in competition for prizes of many good golden ducats."

This too is out of my line, but it did seem to me if more pains were taken with the floral decoration and less with the cutlery, forks, glassware and candles, the tables would be more common sense and serviceable.

Considering the individual varieties of flowers our critic continues:

"It did not seem as though the public or even the judges knew the difference between bad, good, better and best in the matter of color."

And our artistic brother, Battles, of Philadelphia, was there and a judge! Henry, that's awful! Was "Holy Willie" there, d'ye think?

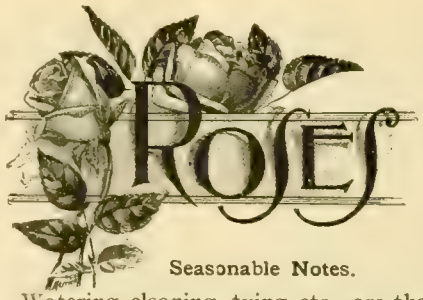
And he must have been a good all-round man. See him handle the nomenclature:

"In general we show little sense of the fact that there is an art in nomenclature as in anything else. * * * For the most part we content ourselves with calling the flower after some awkwardly named man or woman. * * * It certainly showed a lack of imagination that as many as forty florists should have each presented a novelty longing to be called 'Ruth Cleveland.' 'Baby McKee,' on the other hand, had seemingly not been thought of once."

Which goes to show that our artist must have been forty times a Democrat and probably blind of an eye, for the fact is "Baby McKee," a red-headed frowsy tyke, found a place on the table not far from the spotless little Ruth, and there was only one "Ruth." Brother Lonsdale, from the Quaker City, was there, and as he bosses the christening of the little mums, we cannot play a game of two, let alone forty duplicate names, over his broad shoulders. But let Edwin take notice and write in his book of syns "Crazy Jane" Abbie Mendenhall, and "Diana of the Tower" Minnie Wanamaker.

Snow-on-the-Mountain and Ten-Thousand-times-sprinkled-with-gold are suggested to us as some of the Japanese poetical names and for our guidance. Good; now let us have 1,500 such like names, one for each of the varieties of chrysanthemums in cultivation, and we will forgive you for scoring us so severely and thank you for aiding us so greatly.

WM. FALCONER.



Seasonable Notes.

Watering, cleaning, tying, etc., are the main things to watch in the care of roses at this season, and the first will certainly be the most important, for, like all other matters appertaining to growing plants, no exact rule can ever be laid down for the amount to be given or the time to give it. Conditions of each individual place must be the principal guide for while one class of soil can be heavily watered whenever it shows indications of needing it, another class of soil within a short distance of the former may only require very little water in addition to what it may get from syringings for weeks during the short days, and if it gets a little too much may do almost irreparable damage for the entire season; hence every grower must study out the requirements of his own particular class of soil, and be guided accordingly. As a rule light sandy or porous soils can be watered much more freely than those of a heavy or clay nature at this season of the year; but it is never advisable to overwater any plants at this season, more particularly those which have not thoroughly filled all the soil in which they are growing with active roots.

Plants that have been carried over in the same benches as last year and are growing freely can be watered more liberally than young ones newly planted the past season. The amount of water required will also be influenced by the amount of fire heat required. In such mild weather as we have been getting up to this time the soil will remain moist much longer than it would were the weather cold with drying winds, or a large body of snow on the ground causing extra strong light by day, hence additional air to dry the houses up quickly.

HYBRID REMONTANTS.—Where these have been started early and are showing buds they can now be more liberally treated with fertilizers in the form of liquid manure. The temperatures can also be slightly increased, say two to three degrees every two weeks until the buds are showing color, when 56 at night should be the maximum. Until the buds are cut—if really fine buds are the desideratum—do not let them suffer for want of water during any process of their development, even for an hour, or poor, deformed and small flowers will be the reward.

When the flowers are well showing color discontinue the liquid manure and keep a slightly drier atmosphere with an abundance of air during bright sunny days.

JOHN N. MAY.

Wire Training of Roses.

We take three half-inch pipe in four feet lengths (our center benches are four feet wide) and by connecting these with Ls we have an upright frame, one of which we place at each end and one in center of the 100-foot benches. These frames are first fastened firmly at the foot to the bench, then with No. 16 galvanized wire twisted fastened to horizontal top of frames in four places, at equal distances, bringing the wires together at four or five feet lengths and fastening to roof. These wires are about 45 degrees, with the frames we also take two twisted wires across the frames, making all together three horizontal bars on which to fasten the wire for training, No. 16 galvanized wire, thoroughly stretched first (should stretch at least 3 feet in every 100 feet) making it very neat in appearance and prevent after slackness that is often so unsightly. We fasten five rows to each bar of end frame, making 15 wires running the entire length of bed, three on each side of a plant, at different elevations, (we have four rows of plants). These wires are supported by light laths at intervals of eight feet apart and are themselves supported by one wire from rafter. The tying is done by string across from one wire to another, interlacing the rows making the plant fan shape. When refilling benches commences we simply loosen end, bottom fastenings to frame, and the whole thing will go right overhead and back into place without disarranging wires when benches are ready.

Anchorage, Ky. C. RAYNER.

Notes from Mr. James Dean's.

CANNAS.—Mr. D. has got the canna fever; he got a $500 dose of it this year and it is increasing immensely. Star of '91 and Madame Crozy are what he has most of and they are in 6, 7 and 8-inch pots, getting into specimen form.

HARRISII LILIES.—He has been cutting and marketing these for three weeks and he has thousands and thousands coming along in every stage of succession from now till Easter. Take a lesson you big-bulb men: Mr. D. uses the smallest bulbs for his earliest crop and puts three bulbs into a 6-inch pot; or it may be two or one according to the size of the bulbs. These small bulbs give him stems 20 to 24 inches long with one, sometimes two or three flowers and this he insists is better for the retailer than would be a big spike with many flowers.

OLD LILY BULBS.—Mr. Dean, although one of the largest growers of lilies around New York, never keeps over an old bulb, but completely renews his stock every year. This having come to the knowledge of the world he receives many applications for his old bulbs—"send them on and we will pay the express." Now to a hard-working florist this gratuitious business is a little bit cheeky let alone unreasonable. If you want the old bulbs you'd better enclose your check.

HYDRANGEAS.—Mr. D. has lately lifted and potted his otaksas and they are now being kept quite cool. Some of the mid-summer struck plants have been turned out of their pots, shortened a little and laid in in cold frames to remain there over winter.

FICUSES.—The plain green one is the favorite as can be seen by hundreds of fine plants one to three years old and clad with leaves to the pots. A lot of 3 to 4 feet plants of the variegated elastica are having an equal chance in the same house with the plain leaved sort, but a tendency of the variegated parts to become affected with decay spots leads Mr. D. to believe that it is not so good a plant for general purposes as is the typical green leaved form.

PANDANUS UTILIS.—Do what one may this plant nowadays seems to get a little discolored near the tips of the lower leaves.

PANDANUS VEITCHII.—It takes money



TULIPS AT WASHINGTON PARK, CHICAGO. NO. 2.

to get up a stock of this, but it is one of the best plants to have.

COCOS WEDDELIANA.—Doesn't sell as briskly as one might suppose. The palms for the million are the latanias, kentias and arecas.

IRON POT-STANDS.—Mr. Dean uses a large number of them and regards them with much favor. They are mostly in his large palm beds. They take up very little room, don't shade the plants among which they are placed but very little, and are strong enough for any pot.

CYPRIPEDIUM INSIGNE is the only orchid he grows for market.

ONYCHIUM JAPONICUM.—He had some old plants of it last spring and broke them up to increase stock. This was a mistake he assures me, better have dumped them in the rot pile and confined himself to seedlings, they grow so much better and make prettier plants than do old plants divided up.

PTERIS NOBILIS.—There is some doubt about its superiority to some of the serrulata forms, but in order to give it a good chance it is planted wide apart on shallow benches filled smoothly with soil so that the spores may drop as ready upon the ground and there germinate.

DAVALLIA STRICTA.—Is a capital fern.

NEPHROLEPIS DAVALLIOIDES FURCANS.—He is strong on this fern, and has great faith in it. For vase plants for halls or elsewhere where large plants are desirable it is very suitable.

WASHING THEIR FACES.—The palms are as healthy and clean a lot as one can see anywhere, still he had some men going over all his saleable stock giving their leaves a good washing so as to have them looking their brightest and prettiest when they are called out for Christmas.

W. F.

American Carnation Society.

CARNATION NAMES.

The Essex Heights Floral Co., Belleville, N. J., register the name of Florence Van Reyper, for a pure white of good size, substance and fragrance.

Mr. C. Eisele, Philadelphia, Pa., sends the name of Sambo for a sport from Century that is a deep crimson, finely fringed and very fragrant.

Mr. John McGowan has sent sample blooms of those he registered November 17. Iago is a large flowered crimson on a remarkably good stiff stem. New Jersey is a scarlet somewhat similar to Garfield in shape of flower. Katharine Storrs is a great improvement on Dawn in color with a good stiff and long stem. Old Rose is a large salmon pink beautifully fringed. Purple Beauty is a novelty in color, being a light shade of purple, a large flower of good substance.

Sample blooms are a great help in entering descriptions, but the grower should send complete description with names so that in case of accident to blooms they can be properly described in registry book.

Lancaster Pa. ALBERT M. HERR.

Araucarias.

This genus of conifers includes a number of species of great beauty, and while none of them are hardy enough to stand our northern winters, they are becoming very popular for decorative purposes. Many of our florists are growing them in large quantities, and as they become better known are finding a ready sale for them at good prices.

In a young state they are splendid plants for table decoration, or as window plants, their symmetry and graceful proportions eliciting universal admiration. As they increase in size they make fine plants for the lawn in summer and the conservatory in winter. When grown in a large conservatory in a tub or planted out in a border they make noble specimens, the handsomest and most graceful of all the conifers.

But for decorative purposes we don't want large specimens; we want nice, shapely, well-furnished plants from a foot and a half to four feet high. We have to import most of the young plants, as there is no seed to be got in this country, and the seed must not be separated from the cone until you are ready to sow it, as it soon loses its vitality when taken from the cone, while in the cone it will keep for an indefinite period.

To grow these plants well, pot in good loam mixed with some sand; be sure the drainage is good, and do not crowd the plants too closely together in the house; give them room enough to grow in, or

else they will lose their lower leaves or become one-sided. Do not let them get too dry, or spider will attack them and ruin the foliage.

They may be increased from seeds or cuttings, but the former is the most satisfactory method and by it the best-shaped plants are obtained.

A. Bidwillii: When fully grown this variety attains a height of upwards of 100 feet, but a young plant is exceedingly ornamental. The leaves are a very dark green, and the plant is very regular and symmetrical in habit.

A. Cookii: Rather coarse in habit, the leaves being larger than in most of the species. Though not so well adapted for pot culture as most of the species, it is a very ornamental plant.

A. Cunninghamii (the Morton Bay Pine): This is a fine conservatory or decorative plant. Its dark green leaves and pendulous branches are produced in whorls, making it one of the handsomest of the genus.

A. Cunninghamii glauca: This resembles the preceding in every respect save color, which instead of being a rich, dark green, is a beautiful glaucus green.

A. elegans: A plant of great beauty and of a much dwarfer habit than any known species. The leaves are bright green color, and the plant is of a drooping habit.

A. excelsa (the Norfolk Island Pine): The best known and most useful of the species. It makes in a young state one of the most ornamental decorative plants that can be grown. The branches are symmetrical and pendulous and the leaves are bright green in color.

A. Rulcii: In a young state this species resembles A. excelsa, but as it becomes larger it is of robust growth and dense habit, and as it acquires age it becomes very robust and almost coarse in habit.

Maywood, N. J. JAMES S. TAPLIN.

Society of American Florists.

The executive committee of the S. A. F. will meet in annual session at the National Hotel, Washington, D. C., on Tuesday, January 12, 1892. Many of the members of the society no doubt have ideas as to subjects which could be with profit embodied in the programme for next summer's convention or could suggest to the executive committee plans of improvement or advancement in the society's work. Now is the time to bring such matters to the attention of the executive committee that they may receive careful consideration and all such assistance from the members at large is sure to be welcomed by the committee. Communications should be addressed to Secretary Stewart.

The three members of the executive committee whose terms expire with the year 1891 are Frank Huntsman, Cincinnati, O., Wm. R. Smith, Washington, D. C., and J. T. Temple, Davenport, Ia. President-Elect Dean has selected Judge C. W. Hoitt, Nashua, N. H., Jno. H. Dunlop, Toronto, Ont., and J. T. Anthony, Chicago, Ill., as the three new members who will come into office with the new year. W. A. Manda, Short Hills, N. J., has been appointed by Pres. Norton to complete the unexpired two years of Mr. Jas. Dean's term.

Members who have not yet paid their annual dues for 1891 should remit the same to Secretary Stewart before the close of the year and thus keep their names off the delinquent list. According to the by-laws of the society no delinquent member can participate in the meetings or be entitled to any of the privileges of membership until his arrearages are paid up. The printed report of the Toronto meeting is mailed to all members as soon as their dues for the current year are received by the secretary.

New York.

The cut flower market shows considerable improvement, and trade is fully as good as could be expected a week ahead of Christmas. Roses are off crop in several of the largest sources of supply, and in some quarters are positively scarce. The street fakirs or "Greeks" as they are called here are unhappy. They spend a goodly portion of their time just now perambulating in groups from one wholesale house to another looking for bargains that are not to be found, expostulating and arguing over the prices and chattering to one another in foreign lingo. They are away ahead of the ordinary florist in shrewdness and when they make a descent in a group of three or four upon a wholesaler he has got to keep his eyes open and his wits about him or they will manage somehow to get the best of him every time. But he has to tolerate them, for they will be indispensable to him in the spring.

There will be no Jacqs or other hybrids for Christmas except a very few Magna Chartas, and there is demand for many more American Beauties than can be obtained. Dark red roses of all kinds sell at sight. Meteors of ordinary quality selling for the past three weeks at $25 per hundred.

One class of stuff is plenty. There is and will be for Christmas all the bulb stuff that can possibly be used. Roman hyacinths and paper white narcissus are particularly abundant. For the narcissus there is but little demand, the prices realized being such that the cost of the bulbs is scarcely covered.

Lily of the valley from stored pips is plentiful and of very extra quality. No flowers from this year's crop have been brought in yet.

There is a great scarcity in this neighborhood of small ferns suitable for window boxes and jardinieres. The growers say that the seed has come up very poorly this year.

At the December meeting of the Florists' Club four new members were admitted and eight more were proposed. A photograph of the St. Louis chrysanthemum show was received from Mr. Alex Waldbart with the compliments of the St. Louis Club. It was voted to reciprocate with a view of the Madison Square Garden exhibition.

President-elect Dean in his speech of acceptance spoke very earnestly in favor of the club's having a meeting room of their own, and urged the members to turn out in large numbers at future meetings. It is likely that a regular club room will soon be a reality as several of the most active members of the club have taken hold of this matter in earnest, and propose to see if something can not be done. On the table at the club meeting was a vase of very fine mignonette from Dailledouze Bros.

The annual supper of the club will take place on the evening of Monday, Jan. 11. This being the day preceding the meeting at Washington of the executive committee of the S. A. F. it is expected that the club will be favored with a number of the executive committee members as their guests.

At the last meeting of the bowling club a challenge was received through Mr. Doran, from the Acme Bowling Club, of which Mr. Doran is captain, for a match game to be played on some Thursday in January. The challenge was accepted and the matter of date left to be settled by the two captains.

It is also proposed to arrange a handicap for the members of the team for a medal valued at $10, with a leather medal of unique design for the unfortunate making the smallest score.

The proposed plan for an exhibition at Madison Square Garden next spring has been abandoned. But definite arrangements have been made with the Madison Square Garden Co. for a chrysanthemum show for the first week in November next and for a spring show in 1893. The agreement which has been perfected is considered very satisfactory by the committee of the Florists' Club. It is proposed that the next chrysanthemum show shall be of the highest quality and inferior exhibits will not be admitted. Unwashed pots, soap boxes and other abominations which are too frequently seen at such shows will be unconditionally sat down upon.

The prizes offered will be liberal enough to permit of every exhibitor staging his exhibits in an artistic and finished manner, and to make the bringing of rubbish of any sort unnecessary.

In the cut flower department no flat arrangement of blooms will be allowed, and all flowers must be shown with good stems and their own foliage. Throughout every department of the exhibition a high standard of excellence will be the rule.

Mr. J. H. Taylor has been confined to his home for the past week by sickness, with symptoms of pneumonia.

Boston.

The outlook for Christmas trade seems to be good, judging from the reports of shipping orders, as given by the wholesale dealers. Much, in fact everything, depends upon the weather of the next few days.

The wholesalers are receiving shipping orders with caution born of former years' experience. Cut flowers during the past week have been in fair supply and the street fakirs are still able to get hold of enough to keep their boards well decorated, although the quality handled by these gentlemen just at present is none too good and most of the stuff they show indicates by its appearance that it has been passing a few days of confinement in somebody's cellar. The retail stores have found trade very dull during the past week. The wholesalers have been more fortunate; for the shipping demands have kept up very well.

Violets are plenty and good. There is no reason to doubt that Boston can, after January 1 at any rate, supply the country with all the double violets wanted. Carnations are apt to be plenty for Christmas. The growers are holding them back and there is a big stock of them in the neighborhood. Asparagus plumosa is done up for the present. All the growers are short of it. Smilax is somewhat overstocked. Roman hyacinths and paper white narcissus are also coming in too fast. There will be no extra fancy roses in this market worth counting, for the holidays. Neither Jacqs, Hybrids or American Beauties are to be had in any quantity; any one store could probably use alone all of these that will come in.

In greens the best demand is for holly. Mistletoe goes fairly well. Palm crowns and needle pines go slowly as yet.

Mr. N. F. McCarthy has just returned from a month's trip west, having gone as far as Minneapolis. He reports a great success and unexpectedly large orders all along the route for the Boston Florists' Letters and Japanese rose vases which he makes a specialty of.

One of the pleasantest occasions of the season was the presentation of a handsome hall clock as a wedding gift to Mr. and Mrs. P. Welch by their gardener and florist friends, on the evening of December 17.

The affair came off at Mr. Welch's residence in Dorchester, where he has just started housekeeping. Mr. Ed. Hatch had been detailed as a committee to keep Mr. Welch out of the way until the proper time on that particular evening, and he performed that duty well. The clock, the caterer and about 25 of the boys were in full possession of the house, when about 8:30 p. m. Mr. Hatch and Mr. Welch appeared at the door. Before he had time to fairly recover from his surprise at the state of affairs Mr. Welch was led to the front of the clock by Mr. Hatch, who in a characteristically witty speech informed him that this was a small token of the esteem and good wishes of his business associates, and reminded him in a deprecating manner that 8:30 p. m. was a somewhat unseemly hour for a newly married man to appear at his home, expressing the hope that with the assistance of the clock as a reminder he would try to do better in the future. Mr. Welch made an appreciative response and thanked his friends in a most expressive manner for their remembrance, and concluded by extending all the privileges of the house to his guests, whereupon Mr. Hatch taking him apparently at his word at once threw off his coat and amid great merriment made a bold and almost successful attempt to carry off the bride. This was the beginning of the fun which was at a high pitch until the "wee sma' hours," Mrs. Welch contributing not a little to the enjoyableness of the occasion by her beautifully executed piano selections and songs.

Chicago.

Of late the daily papers have been showing up the disreputable methods of the "crape chasers," and in some cases reflections were cast upon the whole trade. As all the reputable florists look upon these ghouls with fully as much disfavor as the general public this was rather galling, and a special meeting of the Florist Club was held last Friday evening to take some action toward placing the club as an organization upon record before the public. All the daily papers were given notice of the meeting and that they all took great interest was evidenced by the fact that every one had a representative present.

After the object of the meeting had been stated the following resolution was introduced:

WHEREAS, Certain parties in this city, who claim to be florists, are bringing discredit upon the trade by employing brazen solicitors to intrude their presence into houses of mourning in search of orders for funeral flowers, be it

Resolved, That the Chicago Florist Club, including within its membership nearly all the reputable florists of Chicago, views such practices with abhorrence, and repudiates those who have so lost all sense of common decency as to engage in them Be it further

Resolved, That any member of this Club found guilty of employing such discreditable methods to obtain business, be promptly expelled.

A few speeches were made in favor of the adoption of the resolution, but as it was all one way—all pro and no con—the question was called for and the resolution was adopted by a unanimous vote.

Then another phase of the question was brought up, that of certain parties who solicit on their own hook and take orders obtained to a florist to be filled, securing a commission on the sale. It was a difficult point to deal with, but action was finally taken in the appointment of a committee, consisting of Messrs. J. T. Anthony, T. J. Corbrey, Jos. Curran, H. F. Halle and E. Wienhoeber, to compile a list of such parties and supply same to the club which could then request members not to fill orders tendered by them.

The proceedings of the meeting were very fully reported in the Saturday morning papers, and thus the main object of the meeting, viz.: to relieve the trade as a whole from the odium thrown upon it by the "crape chasers," was accomplished. And if the recommendations of some of the members in speaking at the meeting, and reported in the papers, be followed, "crape chasing" will be a much more hazardous occupation than formerly. The universal recommendation was that when they present themselves at the door, they be kicked down the steps.

Samuel Muir has received a compromise verdict of $650 in his suit against the Chicago Gas Light and Coke Co., for damage done by gas escaping from the company's mains into his greenhouses. He sued for $2,500. But the Gas Co. has moved for a new trial. It is fighting the case bitterly, for if the present decision is permitted to stand it will establish a precedent that will greatly extend its liabilities. The final outcome of the case is awaited with interest as it will affect in a measure all similar claims for damages from this cause by florists, and those whose houses adjoin gas mains are often sufferers from escaping gas, coming up through the soil from leaking mains.

The florists' windows and store fronts are gay in holiday attire. The Christmas bell has become somewhat of a chestnut, but there is still a demand for it.

Holly has been bought in enormous quantities and by present appearances there will be not more than enough to supply the demand. Crescent wreaths made of cape flowers in pretty shades of pink, red, yellow, pea green, purple, etc., sometimes tied with a ribbon and sometimes a fanciful bow of grasses, are the leading articles in Christmas decorations this year.

In cut flowers the demand has been active and the supply, particularly the latter part of the week, was very limited. The cause for this was doubtless the fact that Monday of this week the holiday prices of the wholesale men took effect, so every grower who could possibly hold his stock for this week did so, hence on last Saturday flowers were very scarce.

The quality of the stock is not as good as it might be. Roses particularly show up rather poor; carnations are fairly good. Violets, but few in the market, are mostly very fine, but the market does not supply the demand by one-half.

There are some splendid Harrisii lilies with six and seven blooms to a stalk, as finely grown as in the spring. One of our growers actually threatens to show us some well grown Hybrids for Christmas. This will certainly be a novelty for Chicago.

As the date for the next regular meeting of the Florist Club falls on Christmas Eve. no attempt will be made to hold a meeting.

Mr. John Thorpe has returned from his eastern trip and reports great enthusiasm everywhere for the World's Fair. He obtained promises of the donation of large plants from a great many gentlemen in the east who own private collections and also from several public institutions. Among these are Messrs. Geo. W. Childs, Philadelphia; H. H. Hunnewell, of Wellesley, Mass.; Jay Gould, Irvington on Hudson, N. Y.; Miss Baldwin, Philadelphia. He also secured for the Fair the bamboos that were exhibited at the Centennial in Philadelphia and specimen plants from Girard College.

Work will soon begin upon some temporary greenhouses in which plants received can be cared for and got into exhibition condition. Immense quantities of plants will be propagated and displayed in addition to those sent in for exhibition.

Work is progressing rapidly on the new conservatory at Lincoln Park owing to the unusual favorable weather.

The next regular meeting of the Horticultural Society of Chicago will be held Saturday, January 2. At this meeting the final details of the proposed spring exhibition will be arranged.

Mr. R. J. Mendenhall, of Minneapolis, is still at the Lincoln Park Sanitarium, where he is receiving much benefit. He is now able to walk without a crutch and hopes to come out soon entirely free from his old enemy—rheumatism.

Philadelphia.

Business has come to a pretty state in Philadelphia. Monday, Dec. 14, was a nice bright day; the weather had been fine for some time and as is usual on Monday there was the extra accumulation of two days' cut to be disposed of.

The demand was not as great as the week previous, but in spite of these conditions it was decided that the price must go up, but just how much was the question.

There is a large retail establishment not far from Broad street station where most of the growers strike first and if the price asked "goes" here that settles it and all the other stores are expected to pay the advance without question. On Monday, Dec. 14, the growers congregated in this place as usual, but could not agree on the advance, and finally left their slips without prices, agreeing to take what one large grower who had not yet arrived would charge for his and be satisfied. It would thus seem that it is not the natural law of supply and demand, but what one man chooses to ask, that is to regulate the price of flowers in this market.

For the last week there has been no scarcity of anything if we except carnations and double violets. Of the latter very few are coming to this market and they are so poor as to be not worth talking about.

Indications point to a good Christmas. Holiday greens line the streets everywhere. Holly and Mistletoe is very fine and seems in good demand.

Mr. Robert Craig is confined to his bed with pneumonia. This is his second attack, he having had a severe spell some three years ago. It is to be hoped that this is taken care of in time and that he will soon be about again.

At the last meeting of the Penna. Horticultural Society the silver medal of the society was awarded to Mr. John Burton for his new rose, the "Pink Beauty." This is the color and appearance of the flower,

but we have not heard of its being christened as yet. If there is anything in a name it deserves the best that can be given to it.

Pittsburg.

The chrysanthemum show has placed the Florists' Club way ahead financially; a handsome sum has been deposited, which may serve as a contingent fund in '92. The support and encouragement from all sides assures a big show for next season.

A charter will be obtained and the name of the club will probably be changed to "Pittsburg Florists' Club," our present title being entirely too long.

Your report of premiums awarded at our show gave some erroneous impressions. I send you herewith the official list of awards which would be pleased to have you publish in the FLORIST.

T. F. B.

[We give below the winners of *first* premiums, omitting seconds and thirds owing to want of space.—ED.]

In chrysanthemum plants, open to all, A. W. Smith received firsts for 12 plants, one of a kind, 5 white, 5 yellow, 5 pink, 5 fancy colors, specimen white, specimen yellow, specimen pink, specimen fancy and 5 standards; to C. K. Hoffmeyer for specimen standard; P. S. Randolph for 20 plants in 20 varieties in not over 5-inch pots. Mr. Smith had no competition in most of the above classes.

In the plant classes open to commercial growers only, A. W. Smith took all the firsts, viz., for 10 plants, 6 plants and 5 standards.

In cut blooms on long stems C. K. Hoffmeyer was first for 20 varieties, 3 blooms of each, and T. F. Beckert for 10 varieties, 3 blooms of each. In short stemmed cut blooms T. F. Beckert was first in both classes, viz., 20 varieties and 10 varieties, one bloom of each.

In cut roses F. Burki was first for Perle, Hoste, Gontier, Niphetos and Waban; Hartman Bros. for Mermet, La France and Albany; J. R. & A. Murdoch for Bride; B. A. Elliot Co. for Am. Beauty.

For 100 carnations, not less than 3 varieties, F. Burki was first.

In decorative plants J. R. & A. Murdoch were first for best 25, and A. W. Smith for 12 varieties ferns.

Of the special prizes R. C. Patterson was first for handle basket of chrysanthemums, vase of long stemmed chrysanthemums, bride's and bridesmaid's bouquets and boutonnieres, vase of roses and flat basket of chrysanthemums; J. R. & A. Murdoch for oval basket of flowers, vase of long stemmed yellow chrysanthemums, and funeral wreath; N. Patterson for most artistic display of cut orchids; John Herron for best display of orchids in bloom; B. A. Elliott Co. for dining room decoration and best box of cut flowers.

Toronto.

The second annual dinner of the Gardeners' and Florists' Club was held at the Allison Hotel on Tuesday last (15th). The weather was bad, but in spite of that the boys turned out in force and had a good old fashioned dinner and a good old fashioned time too. The speeches were short and well interspersed with songs. The president of the club, Mr. John Chambers, is nothing if he is not a good chairman, his tact, good humor and fairness overcame every would-be hitch and everything runs as smoothly as a well oiled machine. The mayor and several of the aldermen graced the festive board with their presence and respectively relieved themselves of suitable speeches having a strong election flavor about them (civic elections come off on the 4th prox.). The club is doing good work among these aldermen, especially with those on the Parks and Gardens Committee, their horticultural education having been hitherto sadly neglected.

Mr. H. A. Bunyard represented Messrs. Pitcher & Manda and did it well. I regret to say that he was the only American present. The invitations sent out gave very short notice and almost the only one who could really be expected was the "Great Scott" of Buffalo, but as the boats have stopped running across the lake now, the journey is a much longer one than in the summer time and he probably did not feel able to face it.

The floral decorations were arranged by Mr. C. Arnold in his usual artistic style. Mr. G. Vair sent down some magnificent spikes of calanthe and some exhibition chrysanthemum blooms.

I afterwards heard of an item which was on the programme, but which for some cause or other did not come off. The proprietor of the hotel is also the proprietor of a most disreputable looking game cock, the hero of a hundred battles from which he had emerged minus several useful members of his body. This delapidated specimen of the feathered race, whose fighting days were long since past and gone, was to have been brought into the room and exhibited as the "little bird" who whispered into your correspondent's ear who was going to be the president of the club for the year 1892, but whether the fear of lacerating the feelings of your correspondent or those of the rooster was the cause of the event not taking place, did not transpire. I need scarcely assure you, Mr. Editor, that this antiquated rooster was not the "little bird" who volunteered the information which turned out to be incorrect; your correspondent keeps in mind the old copybook phrase "evil communications corrupt good manners," and is always very careful what breed of roosters he associates with—'Nuff sed.

Mr. H. Dale and Mr. W. Muston responded to the toast "Wholesale Florists." The former gave some particulars of the enormous increase of trade during the last few years; in the little town of Brampton a short distance out of Toronto where he lives there is now an area of 65,000 feet of glass.

Things look well for a good trade this holiday season and florists are in consequence hustling, each one making all preparations possible to capture the extra dollars that are flying round about that time. A merry and prosperous Christmas and New Year to all. E.

London, Ont.

Now that the "mums" are gone—"and none too soon"—business is beginning to swing round and right itself. It may have been over-production, or the general depression in business, or both, but be the cause what it may it is conceded that "mums" have not been a paying product this season.

The social event of the season occurred on the 11th inst—"the Hunt Ball." It caused quite a brisk demand for good flowers. The supply, however, was nearly or quite equal to the demand.

Roses and carnations are fairly plentiful and of good quality excepting Spray, which does not appear to be doing well in this section this season; it bursts badly.

The annual meeting of the Florists' and Gardeners' Club for election of officers took place on the 7th inst with the following result: President, G. W. Rennie; Vice-President, F. Dick; Secretary, Wm. Gammage; Treasurer, Geo. Cairncross; Representatives to Western Fair Board, Geo. Cairncross and Z. Weston.

The annual report showed the club to be in a good healthy condition, having made a gain of thirteen members during the year. It also showed a neat sum to its credit. An oyster supper is announced as a drawing card for the next meeting.

G.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By practical English gardener; experienced in the profession; married; age 44. G. J. EVANS, 504 8th St., 2d Ward, Flint, Mich.

SITUATION WANTED—By a young man age 20; have been in cut flower store for 7 years as floral artist and decorator. Address C P, care Hill Bros., Richmond, Va.

SITUATION WANTED—By a competent florist and gardener; private or commercial place; age 29, single; can give good references State wages. Address P. WITTRTP, Ft. Scott, Kan.

SITUATION WANTED—By young, single man, as assistant in greenhouses where he can improve himself in the culture of plants, roses etc. 5 years' experience. Good references Address Box V, Piermont P. O., New York.

SITUATION WANTED—By a thorough, practical florist and landscaper, having 30 years' experience in first-class public and private places. Best references Married; age 32 Address AMERICAN, care H. A. Dreer, 714 Chestnut St., Philadelphia Pa.

SITUATION WANTED—As foreman or manager, to take charge; thoroughly versed in growing roses, plants, bulbs carnations, violets; many years' experience in leading places in England and America. First-class references; good wages wanted. Address D P N, care American Florist Chicago.

WANTED—A florist at once who understands the business, to work in greenhouses where cut flowers are grown as a specialty. $25 00 and board. DAYTON FLORAL CO., Dayton, O.

WANTED—A thoroughly competent mushroom grower for commercial house—one who understands floriculture preferred. A. J. VREELAND, 200 Westside Ave., Jersey City Heights, N. J.

WANTED—A young man of good habits and pleasing address as cut flower worker in a first-class retail store in a large western city. Must come well recommended. Address, stating age, nationality, references and salary desired, to R G, care American Florist, Chicago.

Carnationists

Should not fail to have their sign-boards in our new directory and reference book, among the pages devoted to carnations. Advs. must be received by Jan. 1 at the latest.

American Florist Co.,
CHICAGO.

ROOTED CUTTINGS **CARNATIONS** ROOTED CUTTINGS.
A FULL LIST OF CHOICE SORTS,
Tested Novelties and Prize Varieties
NOW READY.
Address H. E. CHITTY,
PATERSON, N. J.

ROOTED CUTTINGS OF
CARNATIONS

Nice, healthy Rooted Cuttings of Carnations of all the leading and newer sorts, in any quantity after Dec. 10th. Orders received for future delivery at 10 per cent. discount from price list. Correspondence solicited.

JOSEPH RENARD, Unionville, Chester Co., Pa.

CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "**DORINDA**," a seedling of 1888—one of the best.

Catalogue will be ready Dec. 10, '91. Send for it.

R. T. LOMBARD,
WAYLAND, MASS.

AURORA.

Winner of the Ladenburg Cup for best pink

CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12 00 per 100; $100 per 1,000.

Send for general price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

Rooted Cuttings
CARNATIONS

All the new and standard varieties.

Send for price list to

GEO. HANCOCK, Grand Haven, Mich.

Carnation Cuttings.

NEW AND STANDARD SORTS.

SEND FOR PRICE LIST.

WM. SWAYNE,
P. O. Box 226. **KENNETT SQUARE, PA.**

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN,** besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

Roses.

STRONG, HEALTHY PLANTS.

Perles, Mermets, Papa Gontier, Bride, Niphetos, Bon Silene, Souv. d'un Ami, Cook Mme. Cusin, Mme. Watteville, La France

3-inch pots, $7.00 per 100; $60.00 per 1,000.

TEA ROSES, 30 sorts, from open ground, extra strong, $4.00 per 100.
HERMOSA, strong plants, $6 00 per 100.
HYBRID PERPETUAL, sorts including JACKS, years old, extra strong, $10.00 per 100.

SMILAX. Good strong plants, $2.50 per 100; $20.00 per 1,000.

WOOD BROTHERS,
FISHKILL, N. Y

Mention American Florist.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

ROOTED CUTTINGS.

Carnations. Some 30,000 feet of glass are devoted to Carnations alone, with two propagating houses each 100x10; these will be kept filled with cuttings of the three best Novelties of last season—**LIZZIE McGOWAN, HECTOR and GOLDEN GATE;** also the best of the older sorts and other novelties of merit. They will be ready for delivery DECEMBER 20th and later as desired. CUTTINGS will not be sent out until well rooted and every effort made to give satisfaction in all particulars.

READY NOW, a fine lot of **GERANIUM CUTTINGS,** all of the very best varieties Old and New, making them cheap at the price, $2.00 per 100; $15.00 per 1000. Other miscellaneous stock later on. It will pay you to watch my adv. for changes.

Correspondence Solicited. Descriptive List on application.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

The New Carnations. ROOTED CUTTINGS.

INTRODUCERS' STOCK OF

GOLDEN TRIUMPH, PEARL, AURORA, THOS. CARTLEDGE, PURITAN, GRACE DARLING, CRIMSON CORONET, PEACHBLOW CORONET.

—— BEST VARIETIES OF LAST SEASON AND STANDARD SORTS. ——

Lizzie McGowan, Hector, Mrs. Fisher, Golden Gate, Fred Creighton and other good ones in any quantity.

—— SEND POSTAL FOR DESCRIPTIVE TRADE LIST. ——

30 varieties CARNATIONS. 36 varieties COLEUS. Best bedding GERANIUMS.

ALEX. McBRIDE, Alplaus, N. Y.

ROSES.

6 CT. FIELD GROWN H. P.'S.

Second size, 12 to 20 in., branched; the best you ever saw at this price. Mostly white and vars.; all good market sorts; correctly labelled, but strictly our selection. We shake out soil, pack in damp moss, and guarantee safe and satisfactory arrival of all shipments by express.

3 ct. EVERBLOOMING ROSES, 2½-inch pots, well grown; several houses full; $3.25 buys 100 of these in 10 good sorts, correctly labelled, free by mail.

WILSON BROS., Springfield, O.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

ROSES.

Wide awake florists will purchase their Roses now, while in a dormant condition. Our plants shifted now in larger sizes of pots, will give you a return of 100 %.

We have now ready 50 000 in 2-inch pots, $3 per 100; $30 per 1000, our selection.
25,000 in 3-inch pots, $5 per 100; $50 per 1000.
Also a fine lot of HYBRIDS, $5 per 100; $50 per 1000.
Larger sizes from $10 to $20 per 100.

Send lists to be priced. New Catalogue ready January 1.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

Mention American Florist.

Rosarians

Should not fail to have their sign-boards in our new directory and reference book, among the pages devoted to roses. Orders and copy for advs. must be received by January 1, at the latest.

American Florist Co.,
CHICAGO.

JACK ROSES

12,000 one year old, 2½ to 3 feet high, well branched, $15.00 per 100.

5,000 two year old, 3 to 4 feet high, well branched, $20.00 per 100.

Also 2,000 fine assorted H. P. Roses, one year old, $15.00 per 100.

JORDAN FLORAL CO.,
706 Olive Street, ST. LOUIS, MO.

READY FOR
Immediate Delivery,
30,000 LOW BUDDED ROSES.

Ulrich Brunner. Baroness Rothschild.
Magna Charta. Persian Yellow.
Mme. Gabriel Luizet. La France, Etc., Etc.
$10 per 100; $90 per 1000.

Gen. Jacqueminot, 2 years old, own roots, $12.00 per 100.

HULSEBOSCH BROS.,
Box 3118. NEW YORK CITY.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WE HAVE received from Mr. F. T. McFadden, Cincinnati, for whom Mr. John Rose is gardener, a magnificent specimen plant of Cyclamen persicum giganteum. The plant measures 2 feet 4 inches across (7 feet in circumference) and bears 60 open flowers, with as many more coming, and none less than an inch and a half deep, and heavy, massive foliage without a single defect. We can readily understand how such plants would easily command the prices named in a former note. In any large city such plants should retail at $5 each easily and sell quick. For house decoration they are fully as effective as a $5 vase of roses, and the plant would give pleasure for a considerable time while the roses would be gone in a day or so. Certainly the cyclamen should receive more attention from growers of plants for house decoration in winter.

A CARNATIONIST!—Now that the carnation has attained to the dignity of having a national society to look after its interests it is eminently proper that growers of carnations should have some expressive title equivalent to "rosarian" as applied to growers of roses, and "orchidist" as applied to growers of orchids. Hence we are pleased to see Mr. Edw. Swayne boldly announce himself as a "carnationist." Such a title is needed and will undoubtedly be adopted.

A REMARKABLE specimen of mignonette has been sent us by Mr. H. H. Francis, Madison, N. J. The stem has no less than eight branches, each bearing a fine raceme of flowers of very large size. Mr. Francis writes that it is a seedling of 1889 that he has named "Eloise Francis" and that he has single plants that will measure 3 feet across, the stem being one-half inch in diameter. The stem sent us was certainly as full of flowers and the flowers of as fine quality as one could wish.

ON November 20 we received from Mr. W. L. Swan, Oyster Bay, L. I., specimen blooms of his seedling chrysanthemum Lady Townsend. The blooms were of fair size and a very fine bright yellow in color. Mr. Swan sends them "as an evidence of the interest felt in chrysanthemum culture in this part of the world."

A NEW chrysanthemum raised by Nathan Smith & Son, Adrian, Mich., which they have named J. A. Pettigrew in honor of the accomplished superintendent of Lincoln Park, Chicago, will make a noise when it is introduced to commerce. It is of very large size and of a shade of pink that will take.

IF YOU have anything to sell to florists, nurserymen or seedsmen you ought to have an advertisement in our forthcoming Directory and Reference Book. An advertisement in this book will be constantly under the eyes of possible buyers for the next two years.

WE HAVE RECEIVED from Messrs. Ellwanger & Barry, Rochester, N. Y., some beautiful specimens of the Beurre d'Anjou pear. They were of very large size, in splendid condition and of excellent flavor. It is decidedly the finest winter pear we have yet seen.

News Notes.

AVONDALE, PA.—Mr. Charles T. Starr is down with typhoid fever. He is now improving, but very slowly.

MT. VERNON, N. Y.—Matthew Dummett is completing a new rose house, 20x100, built in modern style, heated by hot water.

COUNCIL BLUFFS, IA.—The Western Iowa Horticultural Society held its sixteenth annual session in this city Dec. 8, 9 and 10.

LOUISVILLE, KY.—Miss J. Miller, late with C. W. Reimers, has opened a store near Masonic Temple. Edw. Morat has withdrawn from the firm of F. Morat's Sons.

ATLANTA, GA.—The Atlanta Hort. Society has decided to hold a spring exhibition, the dates to be announced later. About $500 will be offered in prizes, also a number of silver cups and gold medals.

WORCESTER, MASS.—Horticultural Hall has been undergoing a thorough overhauling and partial remodelling, the improvements costing in the neighborhood of $17,000. The library has been entirely refitted and refurnished. The hall is now one of the prettiest in the city.

GERMANTOWN, PA.—At the meeting of the Germantown Horticultural Society December 10 officers for the ensuing year were elected as follows: Benj. H. Shoemaker, president; Jonathan Jones, Chas. J. Wister and John F. Sibson, vice-presidents; Thos. B. Meehan, secretary; Joseph Meehan, treasurer. Prof. Thomas Meehan delivered an interesting address on ferns.

HOUSTON, TEXAS.—The Harris County Chrysanthemum Society was organized December 1. The new society is officered as follows: Theo. Hillendahe, president; Charles Herman, vice-president; William M. Bamberge, secretary; A. Stude, treasurer; and James White, chairman of the committee on classification. It was decided to have a chrysanthemum exhibition in this city in November, 1893, and to offer $250 in prizes.

Catalogues Received.

Albert M. Herr, Lancaster, Pa., plants and rooted cuttings; V. Lemoine et fils, Nancy, France, plants; Gaines, Coles & Co., State Line, Miss., nursery stock; James Mott, Orlando, Fla., nursery stock; S. B. Field, Roselle, N. J., rooted cuttings; C. S. Harrison, Franklin, Neb., Rocky Mountain evergreens; Lambert & Reiter, Traer, Germany, new hybrid tea rose Kaiserin Auguste Victoria; Frederick Roemer, Quedlinburg, Germany, flower seeds; G. F. Thompson, Wellsville, Kans., retail bulbs and plants; C. E. Allen, Brattleboro, Vt., bulbs and plants; George Vestal, Little Rock, Ark., nursery stock; Harlan P. Kelsey, Linville, N. C., native trees, shrubs and plants; John R. Box, Croydon, England, tuberous begonias; W. Baylor Hartland, Cork, Ireland, daffodils; V. H. Hallock & Son, Queens, N. Y., gladioli and plant and bulb novelties; E. H. Krelage & Son, Haarlem, Holland, Darwin tulips.

REMOVAL.

BURNS & RAYNOR,

Wholesale Florists,

HAVE REMOVED TO

49 West 28th Street, NEW YORK,

where they will have larger store space and better facilities for their rapidly increasing business. Their method of **Shipping Roses** has given them a large out of town trade and for good flowers, especially **Beauties** and **large Mums** the above address is **Recognized Headquarters.**

Please mention American Florist.

N. F. McCARTHY & CO.

Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

ELLISON & KUEHN,

WHOLESALE

FLORISTS,

1122 PINE STREET,

ST. LOUIS, MO.

A complete line of Wire Designs.

CARNATION BLOOMS.

IN FANCY COLORS—LONG STEMS.

I solicit standing orders from florists and others throughout the country, as I make a specialty of shipping them long distances safely by express.

WANTED! 50 plants or more of Scented Geranium **London Blue.** Mail sample plant or foliage with price, to the undersigned.

CHAS. T. STARR, Florist, Avondale, Chester Co., Pa.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price-list write for same.
WIRE WORK A SPECIALTY.

JOHN C. BRUCKNER,
(Successor to E. J. HARMS),
WHOLESALE DEALER IN
CUT FLOWERS,
AND FLORISTS' SUPPLIES,
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

C. STRAUSS & CO.
GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

Peck & Sutherland,
Successors to W. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
A large stock of ROSES, LILY of the VALLEY, VIOLETS, CARNATIONS, ASPARAGUS, HYACINTHS and other Standard flowers
FOR THE HOLIDAYS.
HOLLY AND MISTLETOE, of the best quality, by the Case or in large quantities at low prices.
CALDWELL'S LONG NEEDLE PINES, PALM LEAVES, MAGNOLIA BRANCHES, ETC., CONSTANTLY ON HAND.
PECK & SUTHERLAND,
67 Bromfield St., BOSTON, MASS.

15 cts. SMILAX 15 cts.
Now ready, 5,000 strings of first-class Smilax for the Holiday trade. Long strings at 15 cts. each.
GEORGE H. BENEDICT,
Yorkville Greenhouses YORKVILLE, N. Y.

Wholesale Markets.

Cut Flowers.

BOSTON, Dec. 21.

CHRISTMAS PRICES QUOTED IN ADVANCE.

Roses, Bon Silene	8 00@10 00
" Gontier, Niphetos	8 00@12.00
" Perles, Sunsets	12 00@15.00
" Mermets, Bride	16.00@25 00
" La France	12.00@25 00
" Wootton	15 00@20 00
Carnations	2 00@ 3 00
" Fancy	3 00@ 5 00
Bouvard'a	2 00@ 3.00
Harrisii	20 00@25 00
Valley, tulips	6 00
Narcissus, Romans	4 00
Stevia	1.50@ 2 00
Violets, pansies	1.50@ 2 50
Marguerites, heliotrope	2 00
Cyclamens	4 00
Camellias	12 00
Poinsettias	20.00@25.00
Cypripediums	20.00
Adiantums	1 00@ 2 00
" Farleyense	10.00@20 00
Asparagus	50.00
Smilax	12.00@15 00

Orchids, $10.00 & upwards per box.
Chrysanthemums, .75 @ 1.00 per bunch.

NEW YORK, Dec. 21.

CHRISTMAS PRICES QUOTED IN ADVANCE.

Roses, Bon Silene	8.00
" Perles, Sunsets, Gontiers	10 00@12 00
" Niphetos	8 00@10.00
" Mermets, Brides, Hostes	15 00@20.00
" Cusins, Watteville	20.00@25 00
" Bennetts, Wabans, M. P. Guillot	20 00
" La France, Albany	20 00@30.00
" Beauty	25.00@150.00
" Capucines	12.00
" Meteors	35 00
" Magnas	75 00@150.00
" Alexieffs	25 00@50.00
Smilax	15.00@20 00
Carnations	2 00@ 3.00
Mignonette	4 00
Roman hyacinths	4 00
Narcissus	5 00
Valley, tulips	6.00
Harrisii Lilies	15.00
Violets	2 00@ 2.50
Adiantums	1 50
Cattleyas	50.00
Cypripediums	20.00
Callas	15.00
Poinsettias	20 00
Bouvardia, heliotrope	3.00
Camellias	8 00
Lilac, per bunch	2.50

PHILADELPHIA, Dec. 21.

CHRISTMAS PRICES.

Roses, Brunners	75 00@100.00
" Laings, Beauties	50.00@75 00
" La France, Albany	15.00@20 00
" Mermets, Brides	15 00@20.00
" Bennetts, Guillots	12 00@18.00
" Cusins, Watteville	10 00@15.00
" Perles, Niphetos	10.00@12.00
" Gontiers	8 00@12 00
Valley	6 00@ 8.00
Violets	1.00@ 2.00
Carnations	2 00@ 4 00
Bouvardia	2 00@ 2 50
Mignonette	2 00@ 4 00
Romans	4 00@ 5.00
Smilax	15.00@20 00
Adiantums	1 00@ 1 50

CHICAGO, Dec. 22.

CHRISTMAS PRICES.

Roses, Am. Beauties	50.00@75 00
" Bon Silenes	6 00@ 8.00
" Perle, Hostes	10 00@15.00
" Brides, Albany	20.00@30.00
" Mermets, La France	18 00@25 00
" Niphetos	8.00@15 00
" Gontiers	8.00@10 00
" Bennetts, Dukes, Woottons	20 00@25.00
Carnations, short	1.50@ 2.00
Carnations, long	2 00@ 5.00
Romans	4.00@ 5 00
Narcissus	5 00@ 7.00
Violets	1 50@ 2 50
Callas, Harisii	20.00@25.00
Valley	8 00
Chrysanthemums	2.00@10.00
Heliotrope	1.50
Bouvardia	2.00
Poinsettias	25.00
Camellias	10.00@15.00
Smilax	16 00@20.00
Adiantums	1 25@ 1.50

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S PENNOCK.)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. **Return Telegram** is sent immediately when it is impossible to fill order.

CUT SMILAX
Over ¼ acre solid beds. First-class quality, 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.
JOSEPH E. BONSALL, 308 Garfield Ave., Salem, O.

EDWARD C. HORAN,
Wholesale Florist
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

SEE ADVERTISEMENT OF
YOUNG BROS.
ON PAGE 433.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST
32 West 30th Street,
NEW YORK.
ROSES SHIPPED TO ALL POINTS.
Price List on Application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

GEO. MULLEN,
WHOLESALE FLORIST,
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

EVERYBODY wants to know where the supply of seed sweet peas is to come from.

MESSRS. Pitcher & Manda will it is said establish a seed store in New York city.

MR. CHAS. P. BRASLAN was married December 15 to Miss Georgie Fisher, of New York.

THE TIME draws near when we shall all know the name of that 400 tomato and of course feel easier.

MR. AND MRS. A. H. GOODWIN, of Minneapolis, have gone south for the benefit of Mrs. Goodwin's health.

ONION SEED prices at retail are said to be fixed at from $1.50 to $1.60 for red and yellows, whites still uncertain.

"SEEDS THAT GROW" seems to be a refrain on which many changes are rung in the 1891 advertisements. "Avoid blowhard's seeds" is not a bad phrase which D. M. F. & Co. use.

THE Harnden Seed Co., of Kansas City, are out with their 1892 catalogue. John Lewis Childs and Northrup, Braslan & Goodwin Co. are also said to have completed their annuals.

THOSE Nebraska vine seed crops are still shrinking. The smaller contracts will not need carload rates—they can be filled(?) by mail. It's hard on the growers just the same. Too many eggs in one basket all around.

Indianapolis, Ind.

At the meeting of the Indianapolis Florists' Club held December 8, officers for the ensuing year were elected as follows: J. J. B. Hatfield, president; Henry Rieman, vice-president; Wm. G. Bertermann, secretary and treasurer. The meeting was considered the best we have ever held. Several papers of general interest were read, one on "Heating apparatus for a small place," by B. A. Alley, an amateur florist, was well prepared and showed practical study of the subject. Another paper on the cultivation and fertilization of chrysanthemums was read by Henry Rieman, a young florist who has been very successful in raising new chrysanthemums and who has been the principal prize-winner at our several shows. This paper was clear and to the point.

Some discussion was had as to the advisability of the club assisting in planting flower beds and window boxes at the different school houses. This subject was set for further discussion at next meeting. Some move will also be made to get the parks and surroundings of the public buildings into better shape. W. B.

YOU WILL certainly want a copy of our new Directory and Reference Book, to be issued in January. The price is $2 and it will be worth many times that to you. Order a copy now.

EXTRA CHOICE FLOWER SEEDS.
List free on application.
FRED. ROEMER, SEED GROWER
QUEDLINBURG, GERMANY.



CYCLAMEN FLOWERS will sell if they are good; cyclamen plants also. The **giganteum strain** is the only one worth growing if you grow for sale, and there are strains and **strains** of the **giganteum** also. It is not how cheap; **but how good!** Remember that **Gardiner's strain of giganteum** comes high; but it's worth the difference. Sow **at once** for next winter's flowering. $2.00 per 100 seeds; $8.00 for 500 seeds; $15.00 for 1000 seeds.

JOHN GARDINER & CO.,
21 North 13th Street, PHILADELPHIA, PA.
☞ Our trade list of choice Flower Seeds free.

FLORISTS SEEDS. The new crop of many varieties is now in store. *All Spring Bulbs Ready.* J. C. VAUGHAN, BOX 688 CHICAGO. SPRING BULBS.

C. H. JOOSTEN, IMPORTER, 3 Coenties Slip, NEW YORK.
ORDERS NOW BOOKED FOR SPRING IMPORTATION FOR
HARDY ROSES, CLEMATIS, AZALEAS, ETC. from the Boskoop, Holland, Nursery Association.
Also NURSERY AND FRUIT TREE STOCKS from LENAULT HUET, USSY, FRANCE.
Catalogues on application. C. H. JOOSTEN.

ROOTED CUTTINGS.
CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.
A. N. PIERSON, Cromwell, Conn.

CYCAS REVOLUTA STEMS,
To be delivered from February to April. By weight, roots and fronds trimmed off. We handle the
TRUE LONG-LEAVED SORT
only, and can furnish in sizes of from 4 inches to 4—6 ft. We imported over 30,000 lbs. past season, and can refer to the best firms in the United States as to satisfactory results. Full information as to freight rates, mode of treatment, etc., given on application. Our terms are consistent with BONA FIDE stock.
LIL. AURATUM, RUBRUM, LONGIFL., ALBUM, ETC.
Send for our Trade List and full descriptive, finely illustrated, retail catalogue. All desired information, estimates, etc., given cheerfully.
Address H. H. BERGER & CO.
SAN FRANCISCO, CAL.
ESTABLISHED 1878.
Mention American Florist.

Rooted Cuttings of
PETUNIAS AND VERBENAS.
We have all the orders we can fill to JANUARY 15th. Orders received will be booked and filled in rotation as received as soon as possible.
We have no price list, but use this space to let you know what we have. Of most sorts the color is printed on the label. We have now ready Ageratum White Cap, and a good blue sort; Alternanthera p major and aurea nana, and Cuphea (cigar plant), for 50 cts. per 100 by mail. By Dec. 20 will have 10 varieties of Geraniums, $1.20 per 100 by mail; $1.00 by express.
Cash with order. Not less than 10 of a kind.
S. O. STREBY,
Lock Box 77. *UPPER SANDUSKY, OHIO.*

EXTRA PANSY SEED.
Mammoth Sunbeam Strain.
A grand collection of giant flowering varieties; flowers measure 2½ to 3 inches in diameter, of perfect form and finest colors. Be sure to sow of it. Liberal trade pkt. 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.
JOHN F. RUPP, Shiremanstown, Pa.

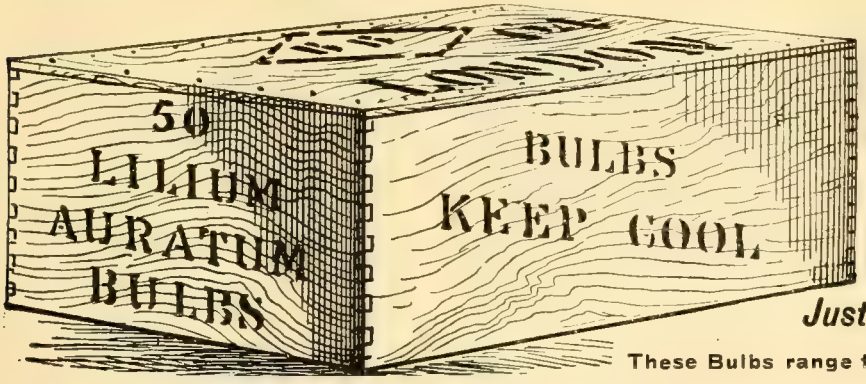
Plants for Season.
ALL THE FOLLOWING ARE DESIRABLE FOR HOLIDAY TIMES.

FOLIAGE PLANTS.	Doz.
Araucaria excelsa, 6-inch pots, perfect specimens	$20.00
Dracæna fragrans, 2 ft.	5.00
" terminalis, good color, 2 ft.	5.00
" " 1½ ft.	3.00
" Bruanti and Congesta, 2 ft.	6.00
Areca lutescens, 2 ft.	10.00
" Baueri, 1½ ft.	4.00
Cocos Weddelliana, 1½ ft.	5.00
Grevillea robusta, 1 ft.	1.00
Aspidistra variegata, 2 ft., extra fine	10.00
PLANTS TO FORCE.	
Azalea indica, finest sorts, specimens, 2 ft., over 100 buds each	18.00
Azalea mollis, 15 to 20 buds	4.00
Spiræa palmata, pink	2.00
" astilboides (new white)	4.00
Anthurium Scherzerianum (Flamingo Flower)	5.00

JOHN H. LEY,
ANACOSTIA, WASHINGTON, D. C.

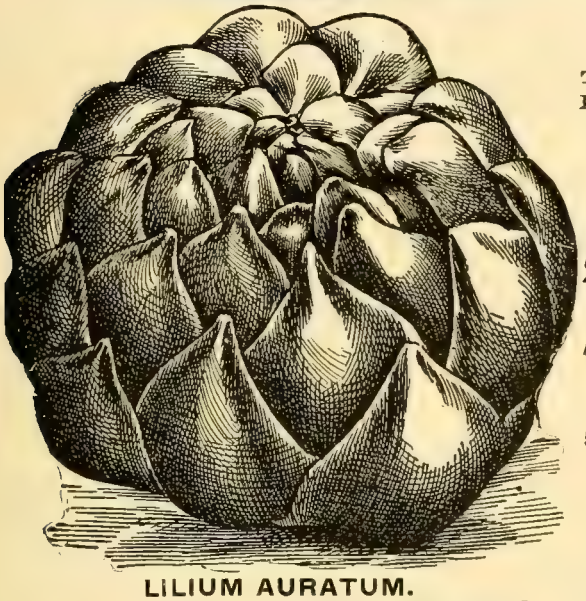
VIOLETS.
Good healthy plants of
WELLSIANA, the largest and finest of all the single Violets, deep purple, very fragrant.
VICTORIA REGIA, single, very large and sweet, deep purple. CZAR, single purple
RAWSON'S WHITE, single. ARGENTIFLORA, silvery white, single. VICTORIA, deep purple, double. Send for prices
H. HUEBNER, GROTON, MASS.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.



1000 CASES
LILIUM AURATUM
—OR—
Golden Japan Lilies
Just Landing direct from Japan.

These Bulbs range from 10 to 12 inches in circumference.



LILIUM AURATUM.
[*Size 10 to 12 inches in circumference.*]

They are the FINEST lot that has ever arrived in this country. They are packed in soil—each case containing 50 Bulbs, and will keep perfectly sound until June.

Price per Case, $6.00.

5 Cases at $5.75. *10 Cases at $5.50.*
25 Cases at $5.25. *50 Cases at $5.00.*

Also 200 Cases **Lilium Speciosum Album**

50 Bulbs each. (9 to 11 inches.) **Per Case, $8.00.**

200 Cases **Lilium Speciosum Rubrum**

50 Bulbs each. (10 to 11 inches.) **Per Case, $7.00.**

Also **200,000 Double Pearl Tuberoses**
ranging in size from 3½ to 7 inches in circumference, at $8.00 per 1,000.

ROBERT BUIST, Jr., Importer and Grower of Seeds Warehouses—No. 922 & 924 Market St., Philadelphia, Pa.

Bulbs. Bulbs. Bulbs.

At these low prices for the next 30 days only. CASH WITH ORDER.

			Per 100	Per 1000
Lilium Auratum,	7 to 8	inches.	$ 3 50	$25.00
" "	8 to 10	"	4 50	35 00
" "	10 to 12	"	8 00	70 00
" Album,	7 to 8	"	6 50	55 00
" S. Album,	9 to 10	"	7 50	65 00
" S. Rubrum,	7 to 8	"	4 50	35 00
" S. "	8 to 10	"	5 50	45 00
" S. "	10 to 12	"	7 50	65 00
" Longiflorum	4 to 5	"	1.75	12.50
" "	5 to 7	"	2 50	21 00
" "	7 to 8	"	4 00	35 00
" "	8 to 9	"	5 00	40.00
" "	10 to 11	"	5 50	45 00
" Tigri. fl. pl.	5 to 6	"	5.00	45.00
" Krameri,	4 to 5	"	5 00	41.50
" Atropurpureum,			5 00	
" Coridion,			2 50	
" Batemanni,			4 50	

Other varieties on application.

CYCAS REVOLUTA, best long-leaved variety, from 6 inches to 6 feet, 10 cts per lb. Discount on larger orders.
CYCAS CIRCINALIS by January, '92. Price on application.
Rhapis flabelliformis, 25c. to 45c. per shoot.
CAMELLIAS, from $25.00 to $60.00 per 100.
Send for new Catalogue.

FELIX GONZALEZ & CO.,
303 to 312 Wayne Street, SAN FRANCISCO. CAL.
Mention American Florist.

LILIUM HARRISII.

Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.
Mention American Florist.

TUBEROSE BULBS.

June Stock. Well Cured.

Dwarf Pearls, $1.25 per 100; $10 per 1000.
Tall Double, $1.25 per 100; $10 per 1000.
Liberal discount on larger lots.
Samples free.

W. W. BARNARD & CO.
6 & 8 North Clark St., CHICAGO.

The Cultivation of Mushrooms.

The following standard works will be sent post free on receipt of price:

MUSHROOM CULTURE Robinson.	$.50
MUSHROOMS—How to Grow Them. Falconer.	1.35
MUSHROOMS FOR THE MILLION, 16 pages.	Free.

JOHN GARDINER & CO.,
Seed and Bulb Growers, Importers and Dealers,
Philadelphia, Pa., U. S. A.

KAE SHEAN CO.,
Growers of CHINESE SACRED LILY,
HONG KONG.

Goods can be obtained at the following houses:
John L. Childs Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan 146-148 W. Washington St., Chicago.
F. R. Pierson Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.
Mention American Florist.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN. CONN.

FICUS ELASTICA.

Very fine foliage.
18 to 20 inches high, from pots, $6 per doz.
24 to 26 inches high, from pots, $9 per doz.
And larger sizes from $1 to $8 each.

JOHN THUMANN,
Fulton Street, TOWN of UNION, N. J.

SMILAX.

Five Thousand extra heavy 6 to 7 foot strings ready at
$20.00 PER 100. CASH WITH ORDER.
B. F. DORRANCE,
Wilkes Barre, Pa.

FLORAL DESIGNS,

The Cut Flower Worker's friend. Fine book of 160 pages. Send **$3.50** for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Mention the AMERICAN FLORIST when writing advertisers on this page.

St. Louis.

The exhibition committee of the Florists' Club met last Monday, Dec. 16. In the course of the meeting a discussion took place in regard to the advisability of adopting some rule by which any member of a firm might be prevented from competing against another member in the same class. Mr. Michel remarked that it would not prevent an employer from hiring his employe to compete against him. The premium list will be ready by Feb. 1.

Cut flowers are in fair demand. Roses firm with somewhat of a run on Beauties. Trade in general good, with a bright prospect for Christmas. The weather is cold, but delightful for the time of year.

Messrs. Young & Sons have a very fine show of roses. They are in favor of steam heating. A forty-horse power steam heater has taken the place of one small steam and three hot water plants, which makes an annual saving of over $300 in fuel, not counting the minimum of labor necessary for the former. For this large heater screenings from any of the better grades of soft coal can be used; Messrs. Young are using those from Big Muddy, which costs $1.65 per ton, with a very short haul. The total cost of changing plant was $2,000. They are contemplating heating all of their houses in this way.

"La Grippe" is now quite popular and has gripped several members of the fraternity. J. W. D.

THE Illinois State Horticultural Society held its 36th annual meeting at Olney Dec. 8 to 10. There was a good attendance and the display of apples was very fine. During the year the society received $4,778.40, paid out $4,320.42 and now has on hand $4,457.98. The officers for the ensuing year are: President, T. E. Goodrich, Cobden; Vice-President, G. W. E. Cook, Lacon; Secretary, A. C. Hammond, Warsaw; Treasurer, Arthur Bryant, Princeton. The next annual meeting will be held at Champaign.

SEND IN your order now for a copy of our new Directory, to be issued next month. Price $2.

Chrysanthists

Should not fail to have their signs in our new directory and reference book, among the pages devoted to chrysanthemums. Advs. must be received by Jan. 1 at the latest.

American Florist Co.,
CHICAGO.

Jessica in the Lead.

This white variety was recommended by Mr. J. N. May, Summit, N. J., last year. This Chrysanthemum I grew this fall, and cut my first blooms Oct. 2, they being from 6 to 8 inches across. Also an immense stock of Gloriosum and L. Canning.

$2 a dozen; $15 a hundred.

ROBT. LUEPKE, E. Liverpool, Ohio.

Mention American Florist.

EXTRA VERBENA SEED.

IMPROVED GIANT.

This magnificent strain of Mammoth Verbena has given perfect satisfaction to my many customers in the florists' trade, and is justly claimed to be the finest in cultivation. The florets measure over an inch in diameter, borne in immense umbels. Very free flowering and of the finest colors. Every florist should be sure to sow of it. Trade pkt. 25 cts.; 3 pkts. 50 cts.; pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.



Mammoth Verbena Seed.

NEW CROP NOW READY. Choicest mixed varieties in the brightest colors. Per trade packet, 50 cts; 1-4 ounce, $1.00; per ounce, $4.00.

The strain we offer this year is far ahead of that sold last season with such satisfactory results. Only the richest colors have been retained, and the largest flowers selected for seed. Seedling plants are now preferred by the leading florists for spring sales because of their vigor and freedom from rust. With this strain to depend on there can be no doubt about the success.

DREER'S DOUBLE HYRRIDIZED PETUNIA SEED, so well known to the trade for the past 30 years, constantly inproving by judicious hybridizing. Trade pkt. containing 700 seeds, $1; small paper 15c.

DREER'S SINGLE GRANDIFLORA MOTTLED AND STRIPED PETUNIA. This strain will give splendid results in pot culture, as well as open ground. It is rich in colors and markings, and of largest size. ⅛ ounce, $2.50; trade packet, 75 cts.

Cobea Scandens..... per oz. $.75 Centaurea Candidissima, per oz. $2; per 1000 seeds, 50c.
Smilax Seed, per lb. $8 " .60 " Gymnocarpa, " 50c. " " 30c.
☞ Preliminary flower seed list to the trade of seasonable seeds now ready; mailed free to the trade.

HENRY A. DREER, Philadelphia.

TUBEROUS BEGONIAS.

LARGEST STOCK IN AMERICA.
BETTER THAN IMPORTED GOODS.

SINGLE. { MIXED, SELECT. per 100, $7.50
" " (small tubers). " 4.50
Choicest Seedlings, equal to named flowers, in 12 distinct colors and shades per doz. 2.50

DOUBLE. { MIXED. per 100, 10.00
" (small tubers) " 6.00
In distinct colors, White, Rose, Pink, Scarlet, Crimson and Salmon. per doz. 2.50
Choicest select Seedlings, in 12 distinct colors and shades " 4.00

SEED.

Our seed this season is extra fine; saved from our collection of over 200 named varieties, all carefully hybridized. We guarantee it not to be excelled by any Foreign house. January is the best month for Sowing.

SINGLE OR DOUBLE, mixed trade pkts. $1.00
SINGLE TO COLOR, White, Yellow, Rose, Pink, Salmon, Scarlet, Buff, Salmon Rose and Fancy. (Nine colors, $4.00), per pkt. 50 cts.
DOUBLE COLLECTION, 10 named varieties. $5.00
SINGLE VARIETIES by weight. 5 grains, $2.00, 1-32 oz. $5.00
DOUBLE " " " 5 grains, $3.00; 1-32 oz. $7.50

New Descriptive Catalogue ready about January 1st.

F. J. MEECH & SON, CHARLEVOIX, MICH.

Mention American Florist.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

CHOICEST CHRYSANTHEMUMS.

TRADE LIST OF NOVELTIES AND OLD VARIETIES NOW READY. STOCK STRONG, TRUE TO NAME. PRICES LOW.

T. H. SPAULDING, ORANGE, N. J.

STOCK PLANTS 15c. EACH.

Louis Boehmer, Lincoln,
Ivory, Lilian B. Bird,
T. C. Price, Snowball,
Kioto, Moonlight, Mrs. Alpheus Hardy.

These Chrysanthemums are all in 6-inch pots. These are for sale by CHAS. SCHLEETER, care S. J. Thompson, Louisville, Ky.

YOUR CHOICE

Chrysanthemums.

Stock plants of 600 varieties. All the Novelties. All the best sorts for Cutting and Market purposes. Not a diseased plant in the lot.

Send for list.

DR. J. S. HINNERSHOTS, Reading, Pa.

STOCK PLANTS OF CHRYSANTHEMUMS.

JESSICA once more to the front. Those that had it, wished they had grown more. Those that had none, wished they had it.

NOW IS THE TIME TO ORDER STOCK PLANTS.

We offer Stock Plants of **Jessica**, 25c. each; Rohallion, the grand new early yellow, 25c.; Mrs Gerard, the earliest large pink, 25c. The best flowers of this variety wholesaled at 50c. each in the New York market.

These three varieties have now flowered and are ready for shipment. All other commercial varieties on hand and ready as soon as flowers are cut.

Orders filled in rotation. Do not delay ordering if you want these varieties as stock is limited.

THE OAKLAND ROSE NURSERIES,

BAY SIDE, L. I., N. Y.

YOUNG BROS.,

WHOLESALE ❋ FLORISTS,

20 West 24th Street,

NEW YORK.

Thos. Young, Jr. | CONSOLIDATED. **John Young.**

The Largest Wholesale House in the Country.

AGENTS FOR THE BEST GROWERS. **FLOWERS SHIPPED TO ALL POINTS.**

PALMS and FERNS

Well grown Specimen Plants, fit for immediate use.

	Each.
KENTIA, 3 to 3½ ft. high, 6-inch pots, 7 to 8 leaves	$2.50
do 2 to 2½ ft. high, 5-inch pots, 5 to 6 leaves	1.50
do 1½ to 2 ft. high, 4-inch pots, 3 to 4 leaves	1.00
COCOS WED. 2 to 2½ ft. high, 6 to 8 leaves	2.00
LATANIA BOR. 2½ feet high, 6 to 8 leaves	1.00
PANDANUS VEITCHII, 2 to 2½ ft. 6-in. pots	2.00

FERNS—Well grown plants in 3 in. pots, for fern dishes, etc., in following varieties:

Pteris Hastata, Sieboldi, Cretica and Alba Lineata, Davallia Stricta and Fijiensis, Lastrea Leptophyllum, Polypodium, Blechnum and Polystichum, assorted, at $10.00 per 100.

E. W. WEIMAR, Mt. Vernon, N. Y.

Mention American Florist.

Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2.00 to $10.00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII, DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots, strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12.00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

Clematis. Roses.

H. P. and Monthly, both pot and outdoor grown, good assortment, own roots, fine plants.

CLEMATIS, fine, well grown plants in choice assortment. Plenty of Jackmanii.

Prices very low, on application.

F. A. BALLER, BLOOMINGTON, ILL.

Mention American Florist

CHRISTMAS ROSES.

THE LARGE WHITE FLOWERING VARIETY.

Orders are now booked for fall delivery. Having the largest home-grown stock in the world, and in splendid condition, I can do them well. Last year the large size produced over seventy flowers. For several years they have given the greatest satisfaction to my customers.

Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
2nd size	14.00	"	115.00	"
3rd size	10.00	"	72.00	"
4th size	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000).	2.50	"	23.00	"

Unknown correspondents are requested to add cash or good European references with the orders Orders can be executed at once. Special prices for bulbs and plants on application.

HERMAN BUDDENBORG, BULB GROWER,
Hillegom, = = Holland.



PALMS and DECORATIVE PLANTS

ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

WELL STRUCK

My Rooted Cuttings.

SEND FOR LIST.

S. B. FIELD, Roselle, N. J.

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
SMILAX, 2½ inch pots	$1.50	$12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CHRYSANTHEMUMS, large stock plants in variety	20.00	

Address **J. G. Burrow,**
FISHKILL, N. Y.

ORCHIDS.

THE FINEST STOCK IN THE WORLD
SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Orchids.

BRACKENRIDGE & CO.

CANE STAKES.

Established 1854. **Govanstown, Md.**

Berry Wreaths.

At the funeral of Lord Lytton, among the wreaths on the casket that crowned the simple catafalque were three, one of laurel from Lady Lytton, another of violets from Mr. Whitelaw Reid, the American Minister; another of berries from the British Chamber of Commerce.

As flowers at a funeral *should* represent a sentiment, and as the use of them as a matter of taste is sometimes overdone (though not from a florist's point of view) what can be more appropriate for an elderly person than a simple wreath of berries and green, which represent the ripeness and fullness of a good and useful life? J. T. TEMPLE.

Cutting Outdoor Grown Tulips.

Will some reader of the FLORIST kindly tell me the proper way to cut tulip flowers, from bulbs bloomed in the open ground?

How near the ground can the flower stems be cut and not injure the bulbs for future flowering? And is it absolutely necessary that the leaves be cut with the blooms? My query refers entirely to outdoor grown flowers.

A SUBSCRIBER.

Decoration of Graves.

Will some reader of the FLORIST who has had experience tell us what is best to use for decorating graves in cemeteries in summer time and what is the average charge per year for care of a grave.

M. & W.

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A. CLAUS.

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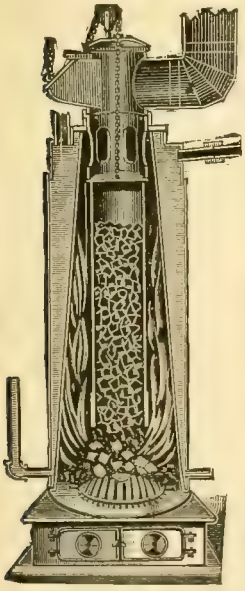
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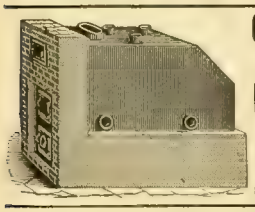
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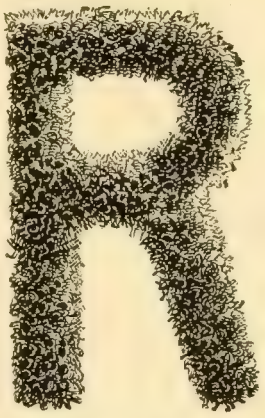
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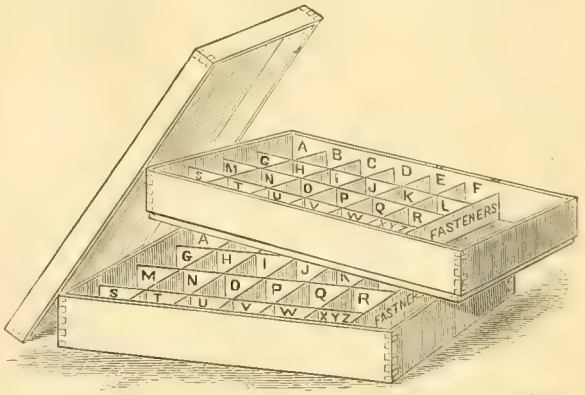


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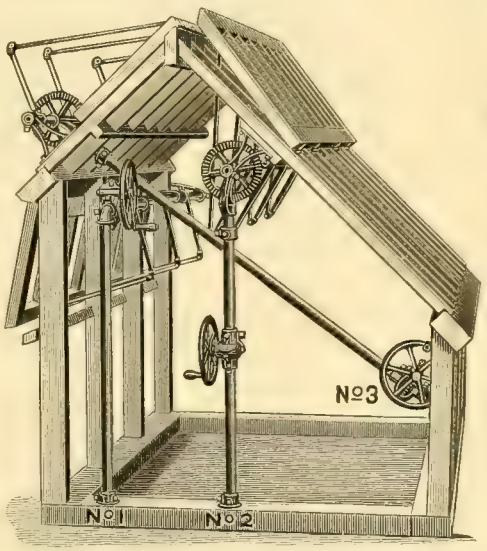
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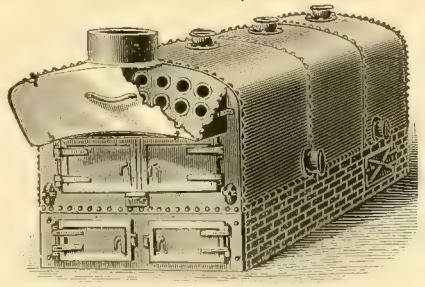
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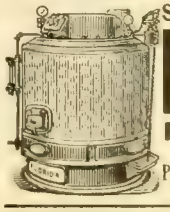
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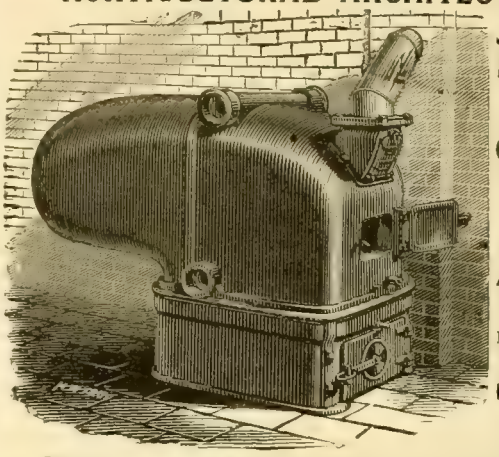
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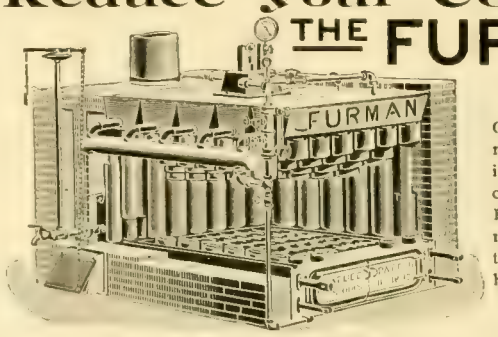
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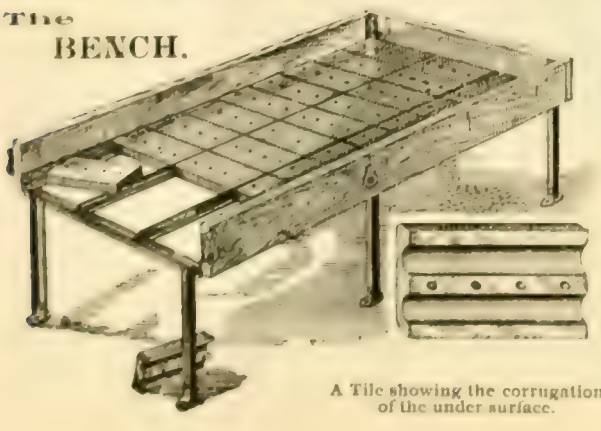
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THE CHRISTMAS TRADE seems to have been fully equal to that of past seasons and generally satisfactory in spite of unseasonable weather and other drawbacks.

YOU STILL have until January 10 to get an adv. in our new trade directory. Don't fail to improve this opportunity quickly.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.

Our Telephone.

"Hello, central, please connect us with Natick, Mass."

"There you are, who do you want in Natick?"

"Waban Conservatories, please."

"Waban Conservatories connected, go ahead."

"Hello, Mr. Montgomery, the FLORIST wants to know how the Waban is getting along."

"The Wabans are all right. They are coming very fine with us now and are beginning to sell much better. Up till recently we had difficulty to get as much for them as for Mermets, but from this time out they will probably run beyond the Mermets. A few days ago and again yesterday we had to furnish a lot of them for wedding purposes. They used them for the bride's bouquet and liked them very much. There has been some prejudice, largely on account of the bad showing in the fall. Everybody run it in before it was fit to show. But this is an experience which every new rose has to go through. The Waban has got to come, there is no question about that. But it has got to fight its way like everything else.

"You know there was considerable talk in the fall about its being mildewy, a weak grower, etc.; it's all nonsense. You would have to get a microscope to find any mildew on it here; and as to growth, the shoots are as strong and vigorous with us now as any Mermet ever was, as those who are interested can see by paying us a visit."

"How about those deformed buds which everybody has been complaining about? Have you had any such trouble?"

"Yes, we had considerable of it, but there is very little of it now; it don't show enough to amount to anything."

"How do you account for the deformity?"

"Hard propagating; everybody driving them for all they were worth. What can you expect when a few plants must be run to turn out 70,000 or 80,000 small plants in a short time? After two or three years that trouble will all disappear.

"It doesn't want to be run as hot as a Mermet, in my opinion. Run it too hot and you get weak stems and poor buds. With Papa Gontier temperature it comes more perfect, better color, better every way and you will get stems just as good as Mermet. With good strong light, well up to the glass, it will throw but a small percentage of deformed flowers. I notice that the strong shoots from the bottom are most likely to be affected, the buds from the second cutting averaging much better. But this is not a new thing; we have had the same trouble with Mermet at times."

"Do you still continue to grow Cornelia Cook?"

"Yes, it still goes; there is always a demand for a certain quantity for use in large vases. It is a question if anything on the place pays, dollar for dollar, as much as they do. The price runs about double that of first class Brides. But they must be big specimens; small Cooks we can't sell at all. As is generally known we grow all our Cooks on solid beds and trellises. We can do nothing with them treated as we do Mermets and Brides.

"We cannot get them heavy wooded enough when grown up to stakes. The plants we are now cutting from have been in the beds about five years and they seem as vigorous as they ever were.

"About once in two years we lift up the roots and put in fresh soil, for the Cook is a heavy feeder.

"In cutting the buds we cut right back to the hard wood and do not leave one or two eyes of green wood as is customary with Brides or Mermets. When the wood gets too thick we thin out by cutting away some of the side branches. After five or six years the plants get too big and gnarly and we then throw them out."

"Couldn't you shorten the plants back?"

"I am opposed to pruning back teas at all. We never do it with any of them. When you cut them back it takes the whole winter for them to recover. It is better to keep them right up and at it all the time and when they get up against the glass throw them out. This practice of drying off and cutting back was one cause of the abandonment of the old system of bed rose growing.

"We have a house of Mermets planted in a bed. The bed is six or seven inches deep, set right on the ground, with a foundation of rubble stone, so it is practically as good as a bench as far as drainage goes. We run these plants about three years, by which time they get too large and we then throw them out and replant."

"Do you get as good a midwinter crop as on benches?"

"Yes, I am sure we do. We get heavier wood than we possibly could on benches, and the flowers are fully as good. They are always in bloom and the bed which is now in its second year is turning us in two dollars to one as compared with the same space devoted to benches."

"We understand you are sending some remarkable Meteors to the Boston marker. How do you manage that rose?"

"Well, this is our first winter with the Meteor, but if we had foreseen what a success it was going to be with us we would have had half a dozen houses of it instead of one. They began to bloom about middle of August and have been in heavy crop ever since. The house is a sight now. You never saw a house of Jacqs more thickly set with buds. We can cut them with stems two feet and more in length. With such a rose as that I wouldn't think of attempting early

Jacqs. There is more money by considerable in the Meteor.

"We give the Meteor five to ten degrees more heat than the Mermet; if ten degrees, all the better. It is a strong feeder, wants plenty of light and should be grown well up to the glass. It has not troubled us in the least in opening the buds, and wherever it has shown a tendency to come slow and 'ball up,' I believe it is caused mainly by dampness, darkness, and allowing the temperature to run down. If it only had fragrance, though!"

"Are you growing many Jacqs this year?"

"Not as many as usual. We have only four houses, about 700 running feet altogether. Our Beauties have been very good right along. The only trouble is that we have not enough of them, and next winter we shall put in a great many more. One or two houses of such a rose are not much use to us. We get the trade started and then when we want them we are out of crop."

"What other roses are you growing?"

"More Brides than anything else. They are in grand condition. We have a fair quantity of Niphetos, a few Bennetts, Hostes and Albanys, besides a quantity of hybrids. The Bennett we handle much better than formerly. He throws fine buds, sells well, is not troubled with spotting and is hard to beat for dollars and cents.

"The Hoste does not take well in Boston. It is neither one color nor the other. Of course it is a good cropper and good grower, but it is necessary to have alternate houses of it as when out of crop it is out entirely.

"The Albany is all right for spring and summer use, but in midwinter when we want it most we can't do much with it."

"How do you account for the general superiority in size and quality of the roses grown at Waban Conservatories?"

"Well, general culture; little points which we watch that others are apt to think not worth attending to. We feed our roses well and watch them carefully and constantly. Keep your plants healthy and growing vigorously, that's the great point."

"Do you ship much of your stuff?"

"No, it all goes to Boston. We can sell there all we can raise."

Mines and Mining Building at the World's Fair.

The style of architecture of the mines building is classic, and its dimensions are 700x350 feet, the height to the main cornice is 65 feet. There is an entrance on each side of the building, the grand entrances being at the north and south end. These are 110 feet high and 32 feet wide, each opening into a vestibule 88 feet high and elaborately decorated. At each corner of the building there is a pavilion 68 feet square and 90 feet high, surmounted by a dome. A balcony 60 feet wide and 25 feet high encircles the building, and leading to it are eight stairways. The roof is of glass, 100 feet from the floor. The cost will be $350,000.

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When sending us small amounts in postage stamps, please select those of the 2-cent denomination.

Personal Recollections of Louis Menand.

III.

On the 30th of October, 1840, I started for Albany, following the track of my plant, my rara avis, or my phanerogyne as you please. For me these three appellations suit me. On the 31st of October I got fast bound in the chains of marriage. Then on the same day we left Albany on the steamboat, where, for the beginning of my honeymoon we had to separate—to divorce. There were no state rooms yet. Ladies stopped on the upper deck and men had to go down. When, in the morning we arrived at New York, Mr. Thorburn, my employer, was waiting for us, and taking both of us by the hands, and in a loud, thrilling voice, addressed me so: "Now my dear fellow!! you will have to stay at my house as I had proposed to you when you went, and you said you would not, and would go straight to Astoria. You may go if you please, but your house is burned to the ground," and he laughed. "It was burned before you were half way to Albany." I did not believe him; I thought he was joking. "Well," he said, "if you doubt, go and see it, but leave your bird here at my house. She will not fly out of the cage." So I started at once, and when I arrived I saw a nice heap of ashes on the site of the house. Everything had been burned except my bedstead, a table and a few other things. My bed room stood north and the fire had been *set* on the south with a north wind, so that a carpenter who had been building a greenhouse for us, and who knew I was in Albany, and living close by, when going to bed saw the house on fire and he ran at once for my room, broke the window, for the entrance of the house was already burned, and saved the few articles mentioned. The most important article was that table—a lucky table—in which I had $300 in gold in a purse. It had been thrown in a bed of roses, where I found it, the legs up. At once it struck me that the purse was gone for the drawer was not locked. I went to it, opened the drawer, and saw my purse with contents intact. I had had $500 in it, but had taken $200 to go to be "chained."

From November 1840 until March 1842 I continued to conduct Mr. Thorburn's business at Astoria. Then we parted and I came to Albany to try my chance as a florist and nurseryman. I located on the Albany and Troy road, on a modest scale—more than modest, i. e., *meagre*! Do you wish to have a slight idea of it? Well! before the year 1842 was over every cent of the five or six hundred dollars, or a little over, were gone, and in nine months, from March to December, business was so *prosperous* that during that lapse of time I received $17! We spent at least $100 a month. Had it not been for that Phanerogyne, that Egeria of mine, I would have had to bundle up, to bundle off, for climes more hospitable, but that diminutive (in appearance), that *rara avis*, that bird of mine, saved us from a complete wreck. Not only saved us, but upheld my courage, and when the rose buds or buds of any description, failed to open, she supplied them with *musical notes*!! Now! you will understand my love, my devotion, my veneration for that *personified providence*. She never flinched; her fortitude upheld her will! and in my eyes exiguity of her stature transfigured her as a "giantess!!"

However, the year 1843 began under a more auspicious sky. We had had hard times. From that day we went "pianissimo," but we never retrograded. Some "cryptogamic" ties held us, held us to our determination to swim or sink together, and we did so for fifty years. We swam in a lake of bliss!! That lake had become an ocean when a cyclone rent our blessedness! forever - - - - - . The years 1843, '44, '45 and '46 passed off with very little progress, except in the double line of propagation—in the vegetable and the animal kingdoms. But we had got possession of a better and cheaper location, 300 or 400 yards from where we were, we had purchased four acres of land, built a house, etc., where we moved on the 1st of April, 1847. We were proprietors (in parte) and we were on the way to improvement. Plenty of elbow room to apply my device "Help thyself and God will help thee," and I was cheerfully willing to put the theory into practice—to work, work more and to pray together. As I have said above, our double line of propagation required more energy on my part, as my helpmate could not much longer substitute musical notes for the missing rose buds. I could sufficiently (with elbow and brain oil) do it myself.

At that juncture a slight fever broke out among the community of Albany and Troy for hardy perennial plants, and as I had a fair collection I did well; for three or four years, in the spring I was for a few weeks busy in putting up collections of 6 or 12 or more; also a few shrubs. When that fever subsided the fever for conifers, arbor vitæs and Norway spruces, balsam firs, etc., took its place, but with better remuneration ten fold, and the fever lasted longer, and in after years I had specimens of Siberian arbor vitæs for my own gratification that I sold for $20 each; of smaller ones I sold more than I could grow, for $2 and $2.50, including planting and warranting to live; if they did not live I replaced, or no pay! It was at that time I began to hear that often silly expression: "It won't pay to warrant trees to live." I have done it for 25 years or more and it has always paid me handsomely. And yet I had to compete with parties who sold as good looking trees as mine for 75 cents and $1 when I asked $2 and over. I transplanted our trees every other year when not every year. I followed the same practice for dwarf pear trees, then so popular. I think I have said somewhere that I had no faculty for learning arithmetic, yet I have always understood that the straight line was the shortest in geometry as in commercial transactions.

The above digressions have made me forget our propagations, which were going "crescendo" in both lines. Then horticulture was progressing forward—not backward as I have seen in many instances on the fallacious pretext that it "did not pay." Then you could sell New Holland and Cape of Good Hope plants, etc., that nobody wants to-day. I think I shall do well not to follow the thread of my digressions on that subject when the "Chrysanthomania" is at the apogee of its paroxysm. Fifty years ago the camellia swayed the horticultural world as the chrysanthemum does to-day. Everything has to undergo the vicissitudes of life, "Hodie mihi, cras tibi," to-day to me to-morrow to you. Among the various epidemics on plants we have had in succession are the "Morus multicaulis," "Chinese Yam" (dioscorea), fuchsia, coleus, Pelargonium zonale and P. inquinans, Vulgo geranium (horse shoe—geraniums), which by the way are *not* geraniums, notwithstanding the popularity of the name adopted by the whole community. We must confess that noth-



MINES AND MINING BUILDING FOR THE WORLD'S COLUMBIAN EXPOSITION AT CHICAGO IN 1893.

ing has equalled *the rose*! which has survived and thrown into oblivion all her contemporaries. Roses were in demand 50, 60, 100 years ago. Not so much as to-day however. Now they seem to be as necessary as bread itself! I wonder if they shall ever have their decadence? Do not be afraid. I only ask the question. It is not probable that the rose will ever be supplanted by any other flower—unless - . God knows! we don't! One thing I know just this moment. It is that I am sketching my life!!??. I hope it will be considered so! But I can not refrain from making digressions—right or wrong.

Well, I can not stop here, I must continue my wanderings and reflections. I think we are about the year 1850 or 1852; really I forget, but one year more or less will not make me one day older, even if I commit some anachronism, as long as what I relate is correct, and I earnestly mean to do so, or my quotation about straight and "short line" would be a fiction, a blunder, a falsehood. On second thought I think that what I am to tell happened in 1852 (but I am not certain and I have no documents to confirm my doubts), an attempt to revive the New York Horticultural Society, which had been founded several years before, (from what I had learned from

Dr. Torrey, who certainly told me the year, but after more than half a century I forget) by having an exhibition. Messrs. Hogg, florists at Yorkville, hinted to me something about it and said, "when we have it we expect your presence, you can be represented. We understand you have materials for." I replied jocosely, "I shall not do such things. I would be afraid of distancing you in the contest and that might check the growth of our friendship." Time passed away and I had forgotten the incident, when one day I received a formal invitation to attend the exhibition. I did not intend to do it, but when the day came, my wife—No! my *Phanerogyne*—this name suits me; it is more sympathetic, more euphonic to me. Because it is Greek and of your own coining, you will say. No! it is not that. Mother and father are not entirely Greek and yet I somewhat like these expressions better than the equivalents of my maternal tongue, Mere and Pere. It seems to me there is more sentiment in the English my mother! my father! are so full of euphony, of fluidity from the heart! I hope you will absolve me once more for that overstretched parenthesis. It was necessary to let you know my feelings! My Phanerogyne I was saying, was with me when Messrs. Hogg hinted to me the possibility of an exhibition and heard my jocose answer. She asked me are you not going to that exhibition? I answered no, I have too much to do, besides I have nothing in bloom, and no foliage plants—as to-day, no palms. "Well," said she, "if you do not go they will say that you are a vain boaster, with your fears of distancing them, etc. You ought to go. If it is only for my sake, do go!" I answered "well I will, but without plants." "But it is precisely the plants which must go. They can do without you, but they want to see your plants." "Well, to please you I will try." So I went to look over my stock, which was not quite so large as that of Messrs. Pitcher & Manda to-day. I had only several Ixora coccinea in bloom and one Euphorbia splendens. I forget what were the other plants. I wanted six. I took two ixoras—if not three. At that time I had never seen an exhibition, but I was reading the *Gardeners' Chronicle* and I knew the theory of the arrangements for exhibitions, and my *two* or *three* ixoras forbode me of being disqualified from competition. I knew that the plants were to be dissimilar. However, I took the first prize for 6 plants—the prize of honor—notwithstanding the duplicate ixoras, but they were fine and had never been seen in New York. So I at once became a hero! Not one of Homer's heroes, though I drank water with my wine as they did; that was my only affinity with them.

That exhibition was, according to what I heard at the time, the most remunerative they ever had in New York; but the receiver or treasurer forgot to give up the money received and ran away. And that "*Dutchman* from Albany," as I heard some people designating me, came back home covered with *platonic* laurels! But then, I could *fan* myself with - - - - I won't tell. If you are sagacious, as I suppose you are, you may guess at it.

As a bisextile year I am going to *leap* over to February 14, 1854, to receive a communication from a committee of gentlemen, lovers of horticulture, of Brooklyn, asking me to let them have a copy of the by-laws of our horticultural society of Albany, and soliciting also my co-operation toward organizing or reviving their horticultural society. The New York Horticultural Society was then in a state of *catalepsy*, that with time became a chronic disease, with intermissions of a quasi life, just enough to show it was not dead. I with enthusiasm sent them the documents wanted and the promise of my co-operation as far as I could, and as I was wont to, I made the remark that I wished them success, that they had materials for but that they must try to control the "*element gardener*" and prevent them from predominating their position, not let them transgress, trespass its limits. I then thought of a fair exhibition that took place in 1840, in Brooklyn, which never had an echo until May, 1854. From that year until 1861 all the exhibitions—two or three every year—were successful, partly thanks to the president, Mr. Degraw, a very liberal man, ready to put his hand in his pocket when the funds were short. It was at those exhibitions in Brooklyn that were seen the handsomest specimens of New Holland and Cape of Good Hope plants ever exhibited in America, besides many other plants such as Ixoras coccinea, javanica, Colei (white), etc. etc. I do not remember all, except some fine plants, much appreciated then, that would make people laugh to-day, not because they were inferior but because they were *old*! As far as I can remember I attended most, if not all, of those exhibitions from 1854 to 1861, when the secession war put an end to the society's life. It expired in the Academy of Music of Brooklyn. I have said that the breaking out of the war put an end to it; but even if it had not, there would have been a catastrophe. The "element" alluded to had transgressed, trespassed over the limits of sound judgment. First by passing a resolution that "foreign exhibitors" should not have the freight of their exhibits paid, even if the freight should cost more than all the prize money they might receive. Now, do you understand who were those foreign exhibitors? You do not! Well, those foreign intruders were your correspondent, the "sketcher" of the above bittersweet digressions, etc. Secundo: that fifth element had decided sub-rosa not to award any first premiums to that Albany intruder who durst accept money to pay his freight, a mere trifle of $35 or $45 or more at every exhibition. One point to their credit, they did not deny me the right to vote at the presidential election. You may possibly wish to know who gave me such information. Simply the president of the society and its other officers, who had warned me not to mind the "elements quaking," that everything should remain in the "statu quo" as before.

How Shall I Keep Tuberous Begonias over Winter?

A very simple operation, as easy a one as to keep a potato. When the tops drop off (of course you have been gradually drying them off) dry the tubers, place in boxes, cover with dry sand or moss to keep them from shrivelling; in large quantities together this is not necessary. Place them under greenhouse bench away from heat—40° is about the right temperature, not over 50°. They keep fully as well in any good cellar.

One lady writes us: "What is the matter with my tuberous begonias? They are done flowering and seem to be damping off." All the matter is they are ripening off. The tops are annual and *will* die off.

The time is now at hand to sow seed. Our best results have been obtained from seed sown between the dates of January 15 and February 15. The seedlings have a good start before the sun gets too hot and you have the tedious job of first transplanting done before the press of other work begins.

We sow entirely in flats filled to within one inch of the top with coarse siftings, anything that admits of perfect drainage and at the same time retains sufficient moisture. The other inch is filled with fine sifted soil thoroughly drenched with water, the seeds are then sown and a very little soil is sifted over them, just enough to hold them in place.

Formerly we used to cover with brown paper until the plants began to show themselves. This does very well but sometimes mildew appears under the paper, and if the soil gets too dry the paper is hard to be removed for watering.

We now use a covering of sphagnum. Select the longest fibers you can find, shake out all the small pieces and place a thin covering directly on the soil over the seeds. This seems to retain just the right degree of moisture and if they need watering it can be done directly on the moss and no fear of washing or disturbing the seeds.

As soon as the first plants appear remove the moss; a short time before removing we water, so as to have as little watering to do as possible before we prick them off as they are apt to be washed out when small.

We prick off as soon as we possibly can as they are very apt to damp off under any circumstances, and for reasons I cannot explain, we have them do it under all circumstances, but believe ventilation under the benches a great help, at least last season our houses were ventilated that way and we were not troubled in the least. We think dry fine sand and sulphur sifted over the young plants a good remedy.

After they are pricked out and started, they grow like weeds and are as easily handled as cabbages. F. J. MEECH.

Sweet Scented Begonias.

Replying to a recent query as to whether any of the tuberous begonias at present in commerce could be called fragrant, Messrs. F. J. Meech & Son, Charlevoix, Mich., write:

"We have had several single tuberous begonias that were sweet scented, especially among the yellows, but none that were marked enough to introduce as a distinct variety. In one house, where yellow predominated, the odor was quite strong and very agreeable.

"We are looking for a new race of sweet scented begonias by hybridizing our present varieties with the newly introduced species Begonia Baumanni, which if all that is said of it be true, is the most important addition we have had to this class of plants in years.

"Mr. V. Lemoine, who introduced it, says: 'It was introduced by seed sent by Dr. Sac from Cochahamba, in Bolivia, to M. E. A. Baumann, from whom Lemoine purchased the entire stock. The tubers are very large, attaining a weight of as much as 12 oz. The plant is of easy culture, the same as other tuberous begonias, the foliage, is large, fleshy and of a bright green. The flower stems are produced in profusion, one plant throwing up as many as twenty-five, and each carrying from three to six flowers, three to four inches in diameter. The male flowers are the largest and handsomest and are twice as numerous as the female flowers, which is directly opposite in the other species. The color is bright rose, the flowers are

very fragrant, two or three plants being sufficient to perfume a whole house. To sum up—it has all the qualifications of a popular flower. Size and beauty of flowers, excellent style of plant and flower stems, agreeable perfume and the probable service it will be in the production of a new race by hybridization.'"

Replying to the same query Mr. Thomas Griffin, Westbury Station, N. Y., writes: "The only really sweet scented begonia that has been sent out up to date, to my knowledge, is Begonia Baumanni, though I have several crosses from that variety, and my own seedlings, that I am looking forward to with a certain amount of interest."

Palm Notes.

The martinezias comprise a very handsome group of warm house palms, and were it not for the profusion of sharp spines with which the stems and leaves are armed, they would doubtless attract more attention from decorators, for though the members of this genus prefer warm treatment yet their foliage endures the exposure of house decoration very well. Perhaps the best known of the martinezias is M. caryotæfolia, a slender growing palm with light green pinnate leaves, the pinnæ of which are somewhat similar to those of Caryota urens, but more irregularly arranged, the pairs of pinnæ being grouped along the petiole instead of appearing at regular intervals.

M. Lindeniana is another fine representative of this genus, and of more recent introduction than the preceding, and has bright green leaves with more or less wedge-shaped pinnæ, the terminal pinna being usually much larger than the others. This makes a very handsome specimen in any size from a 6-inch pot up, and makes a very attractive addition to an exhibition collection, or will probably stand at least as much usage as a caryota.

The soil best suited for the martinezias is about equal proportions of peat and loam, or a larger portion of the latter if it be of rather light quality, and during the season of active growth an abundance of water is required.

Among the geonomas there are several handsome species to be had, and prominent among these is G. Schottiana, a slender growing palm of graceful outline and deserving to be better known.

The leaves of G. Schottiana are from three to four feet long, and divided into narrow pinnæ, the latter quite long and arching, and of dark green color.

Another good example is G. gracilis, a very pretty little palm when well grown, and one of the most extensively used in Europe for table work.

For the latter purpose, however, it is distanced in our markets by the well known Cocos Weddeliana, (to which it bears some resemblance) as the cocos will stand far more exposure without injury than any other dwarf palm.

Geonoma Seemanni is still another noteworthy member of this family, and may be classed among the newer species, though in cultivation for several years past.

It is of quite dwarf habit and much given to throwing out suckers from the base of the stem, after the manner of Rhapis flabelliformis. The leaves of G. Seemanni are broad and frequently bifid, though sometimes broadly pinnate, and when young are reddish bronze in color, changing to dark green. As a young plant G. Seemanni is decidedly attractive, but as it becomes older it sometimes becomes ill-shapen and can hardly be recommended as a large specimen.

Oncosperma Van Houtteanum is a comparatively rare palm, though not a new one, and was sometimes known as Areca nobilis, but easily distinguished from the true arecas by the fact of its bearing spines on the leafstalks.

Oncosperma or Nephrosperma Van Houtteanum as it has been variously called, is an exceedingly graceful palm with long pinnate leaves and reddish petioles, the pinnæ being closely arranged on the stem and quite pendent and in color dark green.

This palm requires a warm house to thrive and a well drained compost, for its root action is not specially vigorous and over-watering during the winter may do considerable injury. It is, however, worthy of a little extra care in cultivation, for when in healthy condition it is one of the handsomest palms with which I am acquainted.

The licualas too, include several fine palms, the most notable and also one of the rarest being the beautiful Licuala grandis, which has been figured and described in former numbers of the FLORIST.



LUCULIA GRATISSIMA.

Licuala horrida is very distinct from the one noted above, and has fan-shaped leaves that are deeply cleft into broad segments of dark green color.

The leafstalks of L. horrida are stout and spreading and armed with very coarse, strong spines, the latter being a decided objection to its use as a florist's palm, for so much extra care is needed in packing such a plant ready for decorating in order to prevent injury to surrounding plants as well as to its own foliage.

W. H. TAPLIN.

Luculia Gratissima.

A few trusses of this lovely flower and also a small plant of the same, exhibited at Horticultural Hall, Boston, last Saturday, by Mr. Geo. McWilliam, gardener to Mrs. J. W. Lasell, Whitinsville, Mass., were very much admired by all, especially did the ladies give it much attention, and of course wanted to know all about it, how to grow it, etc.

It will do very well in an ordinary greenhouse in the summer time when making its growth, but should be moved into a temperature of 55° to perfect its flowers. After it is done flowering the plant will not require so much water, but it must not get so dry as to injure the roots. Give it a little trimming in, if the plant is of any size, to keep it into good form, and keep it in the same temperature till the warm days in spring, when it can be again transferred into the ordinary greenhouse for the summer. In case the plant requires a larger pot the best time to shift it is when the young growth has started about an inch; care must be taken not to disturb the roots any more than necessary, and to shade from the bright sunshine. This treatment with an occasional sprinkling overhead with the syringe till growth has got fairly commenced, should keep the plant doing well. A turfy, fibry loam, one third leaf mold and sharp sand to make the compost porous, will do for the plant very well. When the roots have penetrated to the side of the pot weak liquid manure water once or twice a week will help to make stronger growth and finer heads of flowers. Mealy bug and thrip must be kept off the plant, but especially when the flower cymes begin to form; a good hoseing with the plant laid on the grass will drive them off for a time, but may have to be repeated occasionally.

The flowers are very fragrant, of a lovely shade of pink; it is one of the finest winter flowering plants any one can have, and should be better known and more of it grown in all greenhouse collections of plants. W. S.

December 15, '91.

Is the Violet Disease a Myth?

I have had an experience the past season which quite confirms my belief that the "violet disease," so called, does not exist. I firmly believe that this disease, scientifically speaking, does not exist, but comes as a result from either wrong treatment or some parasite, insect or something of that nature attacking the plants.

My violets are grown in cold frames, and last spring, as usual, I potted some of the runners, and as soon as they were well rooted planted them out in the cold frames.

Naturally I selected the better looking plants for this purpose. Afterwards a friend of mine asked me if I had any violets over, and if so, said he would be very glad to have them. I gave him those left over and he planted them in his cold frames. The result this fall is that my violets have had the so-called disease, the leaves are about all gone, no bloom and no promise of any later, while my friend's are blooming nicely, look vigorous and show no sign of any disease.

I have had very good luck in the past with my violets, and for years my frames have been in one place, but this year I was compelled to move them and I think the soil was quite different. I can account for my failure in no other way, than that the soil was not suitable. If you can give me any light on the subject it will be gratefully received. I think my experience shows that this disease is more than likely entirely due to improper treatment.

CH. D. WADSWORTH.

Plainfield, N. J.

WE HAVE ADDED two more new features to our forthcoming trade directory and reference book. They are lists of leading Park and Cemetery Superintendents of America. We believe that these lists will be a great convenience to the trade in many ways. We shall also give a list of Botanic Gardens in America.

THE time for receiving advs. for our new directory has been extended to January 10.

New York.

The retail florists all claim to have had the best Christmas trade they ever experienced. They worked all the night before and many of them all day Friday, and as they look back over the hard pull they wonder what would have been their condition had the weather been fine.

Worse weather could scarcely be imagined, but the stores were thronged with customers in spite of the drenching rain. The great bulk of the flowers was disposed of in loose collections of long stemmed blooms, and naturally the stuff had to be of good quality. Inferior quality flowers had a poor show, the only chance to get rid of them being the few basket orders which were occasionally secured. Most of the stores sold out pretty clean. Buying had been done with caution, partly on account of the weather, partly owing to past unpleasant experience, and the risk of carrying stock was left to the commission men and the growers.

On Christmas greens the trade was phenomenal. Evergreen trees were sold out clean everywhere and customers were running round at midnight buying anything they could find in the shape of a tree without regard to price. Holly, too, was sold in enormous quantities. The late arrivals of holly were of very extra quality covered with berries. The market was loaded as never before with imported mistletoe, much of it in a badly broken condition, some of it very nice, and as prices were reasonable more of it was sold than usual. Domestic mistletoe could not be disposed of at any price.

The commission men had in many instances the same old experience with their growers. On Tuesday and Wednesday there were plenty of customers whom they found it impossible to supply. Buyers who wanted goods by the hundred had to be satisfied with dozens, which were doled out to them pro rata. Large quantities of flowers could have been disposed of quickly at good reasonable prices, but the stuff was locked up in cellars and refrigerators and could not be touched except at guaranteed big prices. All the growers did not do this, but many of them did, and to-day they are regretting their foolishness, acknowledging their mistake and vowing they will never do it again. Those who stored their roses got terribly stuck. The quantity of roses that came in on Thursday and Friday was enormous. Those of good quality that were freshly cut went off at good prices, and there were none too many of such. Fancy roses, good selected, brought as high as $20 per 100 and probably averaged $15 all round. The salted stuff in all probability did not average over $6 per 100 and was not nearly all sold. Three days before it would have gone readily at $10 to $15. Colored roses sold better than white, Niphetos and Bride went very slowly. One of the best selling varieties was Gontier, American Beauty went rapidly at prices ranging from $1.50 for the best down to rubbish figures. Some of the Beauties coming to this market are about as near the ideal rose as possible, superb specimens. Some go to the other extreme, in fact approaching the ridiculous when they appear in the size and shape of a Gontier bud, with a big luxuriant three foot stem. Mermets showed the effects of the dark weather more than any other variety. Most of those received were badly off color. Violets held up well in price, and carnations, especially the colored ones, sold out well. Bulb stuff was not as badly overstocked as in former years. Narcissus, paper white, was the only dead stock. Good lily of the valley sold at $6, and some from Ernst Asmus which was of extraordinary size and quality brought considerably more. Roman hyacinths sold fairly well at $3 to $4 per 100. Harrisii lilies took a spurt and there were not nearly enough to meet the demand at 20 cents. There was some white lilac in market which brought from $2 to $2.50 per bunch.

On Saturday, the day following Christmas, trade was very light throughout the city, but as the weather continued stormy the cut was small and there was not much stuff to go to waste, although there was a somewhat risky stock of high priced American Beauties floating round.

The trustees of Columbia College at a recent meeting voted $25,000 towards the proposed Botanical Garden, payable as soon as the $250,000 called for by the act of incorporation has been raised. The garden will be fashioned on the plan of the great Kew Gardens and will be located at Bronx Park, which is one of the most beautiful and picturesque spots in the State of New York. The great Torrey herbarium, valued at $175,000, will in all probability be donated to the garden also.

Mr. J. M. Keller, at Bay Ridge, has a splendid lot of genistas. He makes a specialty of this plant and towards Easter his houses will be a sight worth seeing. The variety racemosa has entirely superseded the old canariensis. The plants are very round and compact, having received a good clipping every two weeks throughout the summer. Mr. Keller, like all the Bay Ridge growers, has a fine lot of azaleas also, of which some of the early varieties are already in bloom and sold rapidly for the holidays. He has got tired of the cut flower trade, and azaleas, genistas, palms and Harrisii lilies have taken the place of hybrid roses. Harrisii lilies have come into bloom exceedingly early this year for some unexplained reason, it being next to impossible to hold them back. One of the prettiest sights at Mr. Keller's is a lot of Euphorbia jacquiniæflora in flower. This ought to be grown much more generally for decorative work.

Jas. Weir & Sons have built two very fine new houses, 200 feet long, the past season. Here too azaleas and Harrisii lilies are specialties. In the palm house is a group of Pandanus utilis plants, 8 or 10 feet high. There is a house of callas in bloom which Mr. Weir claims pays him better than any other stock on the place. Outside of the houses is a tall post, on which is a big bell with rope attached. When you want to find the proprietor pull the string. This convenience will receive the hearty commendation of every one who has ever spent a precious half hour perambulating a big establishment in search of the proprietor.

The match game between the New York Florists' Bowling team and the Acme Bowling Club will take place on Thursday, January 7, at 8 p. m., at Jansen's alleys, 49th street and 7th avenue.

Robt. B. Young has been sick for two weeks, but is better and expects to be out soon.

Boston.

"A green Christmas." An average temperature of 60° for a week. Add to this the fact that it rained on Christmas and on the two preceding days in old fashioned April style, and the combination is not an attractive one for the grower or for the retailer. The growers did not like it. About a week beforehand there were a couple of cold days and the indications of wintry weather for the holidays were very promising.

The conditions were just right for the growers' plans, the dealers came down for a little while from their high perch, and it looked as if the old time days were with us once more.

"They're getting very civil now," said Lawrence Cotter. "Yes," said Tom Cox, "my hands are all covered with corns caused by their shaking hands with me."

And if the cold snap had continued there would undoubtedly have been a nice little famine on roses, and the rose growers would have flown high, very high. As it was roses of good quality were in short supply and holiday prices held up equal to recent years. The weather had a very injurious effect on roses of all kinds, but Mermets suffered particularly, not 10 per cent of the receipts of this variety being of good saleable quality, and those who had them in good shape could set their own figure.

It is not likely, however, that the severest of weather could have resulted in a short supply of carnations. The quantity grown around here this season is enormous, and the quality is superior to that of any previous years. The growers had been holding them back so that there was a very large stock in readiness for the market. Up till two days before Christmas they held them back and the retailers who had much funeral work to do were handicapped and had to resort to a liberal use of "California Japonicas" (syn. Milk Weed Balls) as a substitute. White carnations were most badly overstocked, especially on the 24th, but of colored ones there was also a full supply, including Grace Wilders, which did not maintain their customary lead in price over other varieties.

The same story would apply to violets, many more of these having been run into the market for Christmas than could be sold, so that the price went all to pieces and dealers could get all the violets they wanted day before Christmas at $1 per hundred. No doubt there were plenty of violets thrown away which might have been sold readily two weeks ago.

Bulbous stuff was the deadest stock of all. Lily of the valley was the only thing in this line that had any life or movement. Narcissus, paper white, were not wanted at any price, and tulips, the scarlet Due van Thol, fared almost as badly. Stevia came in by the bushel, and although there was a large quantity of it used, yet the unsold stock was large, and some of the unfortunate growers who could find no dumping ground for it were advised to buy a cow and feed it to her. Smilax, too, fared very badly and could not be sold at any price.

There was some unusually fine mignonette in the market, also double pink bouvardia, and among the novelties were the first arrivals of English primroses and freesia.

"Prices don't start out to suit us," said John Duane, as he sat alongside his box at the "Exchange" on the morning of the 24th. "No," said his neighbor, "you've got to offer them bargains this morning to move them." The general inclination among the box men, however, seemed to be to take matters philosophically, and the rose growers among them had nothing special to complain of, so they just piled their boxes against the wall and sat down to a table to a quiet game of "Pig," in which alluring occupation they found abundant consolation.

In the stores everything was rush and bustle, for in spite of the disagreeable weather customers thronged in thick and fast and the amount of trade done was tremendous. They did not have to look for customers for they came as fast as they could be attended to; they did not have to look for stock, for the growers paid their respects to them unsought, and the demeanor of the average dealer was that of unconcern as to whether such a thing as a grower existed or not. "Plenty of trade, plenty of stuff," remarked one of the dealers as he took a breathing spell, "and while carnations and stevia hold out there will be no trouble to fill orders."

The stock of unsold flowers in the retail stores must have been small, for they had with remarkable unanimity refrained from engaging stuff beforehand, and would take no risk, nor buy anything until they saw a certainty of disposing of it. They had their inning and they made the most of it, and when they finally got through they were a thoroughly tired out crowd and acknowledged they had had enough.

There was a good supply of plants such as Harrisii lilies, Chinese primroses, cyclamens, azaleas, Jerusalem cherries, etc., and they seemed to sell well. Holly was cleaned up entirely. The sale of it was greater than ever before. There was no American mistletoe offered and the English variety was handled to a greater extent than for some years. While much of it was badly broken up yet there was considerable of it in fine condition and it sold fairly well, although at lower prices than ever before. Holly wreaths and bunches of holly branches were quite an item in the trade of the flower stores.

The street fakirs for the time being had stored away their flower stands and abandoned the flower trade for the more lucrative one of selling "greens," or were giving their attention entirely to hawking the "Walking down Broadway" and other ingenious mechanical toys.

Calendars for 1892 are coming in with every mail. There will be no excuse for any one to forget dates next year. One of the handsomest of the calendars comes from Robt. C. Patterson, the enterprising Pittsburg florist.

There was a very interesting and instructive exhibition of dried botanical specimens recently at the rooms of the Appalachian Mountain Club. The collection of ferns was especially rich and many rare and curious forms were shown, some of the contributions having come from Alaska, Africa, New Zealand and other remote places.

Mr. H. H. Hunnewell has donated several very large and beautiful plants to the World's Columbian Exposition.

Philadelphia.

The clerk of the weather did not have snow enough to go round Dec. 24, so he sent rain, not the kind that "patters on the shingles" that Robert Craig sings about, but the variety that comes down in bucketfuls. Oh, how it did rain from early in the morning until about 3 p. m., when it stopped and finally cleared up about evening.

For the past week the weather has been bad for keeping flowers; it has been warm and close; at no time has the thermometer been below 40° and has ranged as high as 60°. Some of the stuff sent in for Christmas was in very bad shape, roses falling as they were being taken out of the boxes and as to colors it would puzzle our artists to describe some of them.

Here are the prices: Mermets, Brides, La France, Bennetts, Wabans, 20; Cusins, Hostes, Wattevilles, 15 to 18; Perles, Gontiers, Niphetos, Sunsets, 10 to 12; Brunners, Magnas, Laings, 65 to 75; American Beauties, 50; bouvardia, heliotrope, 2; carnations, 2½ to 4; Valley, 6; Romans and paper white, 4 to 5.

As to the volume of business it was about the same as last year. The retail orders were mostly for cut flowers, very few baskets being made up. The box of long stemmed flowers is now considered the proper thing, the basket having to take a back seat for a time at least.

There was a great demand for ferneries and small jardinieres and the stock of ferns to fill them was none too good. There has been a great sale for this class of stuff this fall; the growers could not get it in size to sell before it was ordered and had to go as it was. H. A. Dreer had an immense stock, larger than ever before, but all salable plants were gone before Christmas. Messrs. Craig and Ball were also sold out of all but maidenhair. A few weeks will soon fill the stocks up again, as there are plenty of youngsters coming on.

Charles T. Starr, of Avondale, a prominent carnation grower, who sent out Buttercup and several other good varieties, died Dec. 24.

We have heard several inquiries recently as to how valley should be kept over the summer for forcing the following fall. Is there not someone who has been successful and will relate his experience in the columns of the FLORIST?

Mr. Robert Craig is still very ill; he does not gain strength, but his physicians hope by perfect quiet and rest to bring him about in a short time.

Mr. Lonsdale's new pink carnation, "Grace Battles," is a beauty; everybody knows Grace Wilder and we feel sure that before long this new variety will attain even greater popularity. The flower is larger, the petals being broader, does not burst its calyx and has a good stiff stem; in color it is a shade lighter. Mr. Lonsdale has other very pretty seedlings, which although being better than many now on the market are not considered by him good enough to send out.

Chicago.

The Christmas trade in both flowers and holiday decorations was very good. There was more holly sold this season than ever before. The enormous stock which some of the dealers laid in and which some wiseacres predicted could only be sold, if at all, at a sacrifice was nevertheless disposed of at good prices. At 5 p. m. on Thursday scarcely a holly wreath could be found in Chicago and many a would be buyer had to content himself by buying a loose bunch.

In flowers the demand was lively. The stock on the whole was fairly plentiful, but every flower was cleaned out. The stock of roses was none too good. Of course there was a good deal of pickled stock, but not quite as much perhaps as in former seasons. Mermets and Brides were the two varieties the most plentiful. The wholesale men asked from $18 to $20 per hundred, which price was held firmly. It is doubtful if this stock, of which certainly at least 75% was poor grade, could have held the price if there hadn't been such a shortage in roses like Bons, Gontiers and Perles. Many of the dealers had booked orders for roses of this kind at $2 to $3 per dozen, but not being able to procure this class of roses had to substitute the higher priced sorts, which was not very profitable to the dealer.

Am. Beauties were very scarce in most stores and first class stock commanded fancy prices, but there was hardly a Beauty to be seen which deserved the name. But one grower brought in Christmas week a clip of 1,200 Beauties which averaged very fair.

Carnations were never seen more plentiful or of better quality than this Christmas, but every flower was disposed of at good prices. Violets as was expected were extremely scarce. They were eagerly sought after at the fancy price of $1 per bunch of twenty.

Of bulb stock the valley sold poorly. There was but a limited stock in the market grown from this season's pips with hardly any leaves. Roman hyacinths were not nearly as plentiful as in former seasons, nevertheless good stock brought only $4 per hundred at wholesale. Freesia was to be seen in small quantities and sold readily.

Work will soon be begun upon the greenhouses on the World's Fair grounds and Chief Thorpe begins to feel a little more at home. The houses will be eight in number, of which four will be 100x22 and four 100x26. As soon as these are complete the department will be ready to care for plants sent in, and will begin the work of propagating stock wanted in quantities and in exhibition condition in '93. Mr. Thorpe will take another trip soon in the interest of the Fair and expects to be present at the meeting of the Executive Committee of the Society of American Florists in Washington Jan. 12.

Much satisfaction is expressed in trade circles here over the appointment of Mr. J. T. Anthony on the Executive Committee of the S. A. F.

St. Louis.

The Christmas trade has been exceptionally good. The demand for high class stuff especially has exceeded the most sanguine expectations. The sale for lower grades was not so good, becoming brighter, however, when the supply of the better class became more limited. The demand for smilax, holly and mistletoe was somewhat above the general average, the quality of the two latter being better than usual. There has been a fair call for Roman hyacinths and paper white narcissus. Both were plentiful, the former especially having glutted the market.

The demand has been very great. Beauties are bringing from $12 to $18 per doz.; Mermets, La France and Albanys $4 to $5; yellows and whites from $2 to $3; Roman hyacinths $1 per doz., and violets 25c per bunch.

There is a rush of funeral work, taking of course a large quantity of white flowers, but the call for set work in general is less than usual, the orders being mostly for small pieces.

Kentias, arecas, latanias and azaleas have sold well.

Toronto.

Trade is pretty brisk just now in this village and to all appearances the florists are raking in a good harvest. A wholesale grower tells me that prices range about the same as last year, with the exception of Brides and Mermets. Christmas 1890 they were going at $15, this year $12. The volume of trade has been larger, immense quantities having been shipped to Montreal and other Canadian cities.

Weather the last two or three days has

been quite mild, very favorable for selling plants on the market. There has been a drizzling rain all to-day (the 24th), with the thermometer about 38°, but it does not seem to have diminished the usual crowds on the streets. One generally looks for the jingle of sleigh bells though at this season, the merry sound of which tends to put people into a spending mood.

Orchids have been in some demand among the upper ten; the demand is as yet rather uncertain and the supply limited. Somehow or other people seem to have a way of wanting these sort of things when there are none or very few to be had.

The executive committee of the Gardeners' and Florists' Club has work enough to keep them going for some time on hand, a motion passed at the last regular meeting ordering a revision of the constitution and by-laws; then there is the chrysanthemum show list for '92 to be prepared and sundry other business which needs serious attention. E.

OBITUARY.

CHARLES T. STARR, the well known carnation grower of Avondale, Pa., died December 24, of typhoid fever.

Mr. Starr was one of the first American growers to turn his attention to the improvement of the carnation and some of our most popular varieties were originated by him. Among these may be mentioned Century, Buttercup, Lady Emma, Golden Gate, J. R. Freeman, Field of Gold and Duke of Orange.

He was most conscientous in all his dealings and had the respect as well as the regard of all in the trade with whom he came in contact.

He was a member of the Society of American Florists and has always taken an active interest in its work.

ADVS. for the new directory can be received up to January 10.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

SITUATIONS, WANTS, FOR SALE

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a practical florist of executive ability; have had experience in all branches of the trade. Age 22 years; single. Address F. BURTENSHAW, Columbus, Ind.

SITUATION WANTED—By a thorough, practical florist and landscaper, having 20 years' experience in first-class public and private places. Best references. Married; age 32. Address AMERICAN, care H. A. Dreer, 714 Chestnut St., Philadelph'a Pa.

SITUATION WANTED—By a first-class florist, single German, 25 years of age, honest and industrious; thorough knowledge in growing roses, carnations, palms, propagating, cut flowers; well up in design work and decoration. Can give references. E P. care American Florist Chicago

SITUATION WANTED—As foreman in general nursery or private place. Austrian; age 42; married, no family; 32 years in the trade; 13½ years in America; not perfect in the English language. Roses, bedding plants, bulbs palms, etc. JOSEPH A. KASCHER, box 16 Anacostia, Washington, D. C.

WANTED—Single man accustomed to greenhouse work. 1033 W. Madison St., Chicago.

FOR SALE—Two greenhouses, 1,650 ft. of glass 2 acres of land, and wind mill; in one of the best towns of Texas. Address W A C. care American Florist.

FOR SALE—New greenhouse establishment on a main thoroughfare; cars pass the door every few minutes; about 1 700 feet of glass, heated by hot water; brick dwelling house, all latest improvements. 667 Dover Court Road, Toronto, Ont., Canada

A SNAP!

Somebody who wants to BUY favorable lease of about 6 000 feet of glass, filled with full stock of leading roses, callas and other bulbs. Good rose grower and single man of German descent preferred. Address G O. care American Florist, Chicago.

ROSES.

6 CT. FIELD GROWN H. P.'S,

Second size, 12 to 20 in., branched; the best you ever saw at this price. Mostly white and vars.; all good market sorts; correctly labelled, but strictly our selection. We shake out soil, pack in damp moss, and guarantee safe and satisfactory arrival of all shipments by express.

3 ct. EVERBLOOMING ROSES, 2½-inch pots, well grown; several houses full; $3.25 buys 100 of these in 10 good sorts, correctly labelled, free by mail.

WILSON BROS., Springfield, O.

WABAN ROSE. Headquarters for the New and Beautiful TEA ROSE WABAN.

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

ROSES.

Wide awake florists will purchase their Roses now, while in a dormant condition. Our plants shifted now in larger sizes of pots, will give you a return of 100 %.

We have now ready 50 000 in 2-inch pots, $3 per 100; $30 per 1000, our selection.
25,000 in 3-inch pots, $5 per 100; $50 per 1000.
Also a fine lot of HYBRIDS, $5 per 100; $50 per 1000.
Larger sizes from $10 to $20 per 100.

Send lists to be priced. New Catalogue ready January 1.

Address **NANZ & NEUNER,**
LOUISVILLE, KY

Mention American Florist.

Rosarians

Should not fail to have their sign-boards in our new directory and reference book, among the pages devoted to roses. Orders and copy for advs. must be received by January 10, at the latest.

American Florist Co.,
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CYCAS REVOLUTA STEMS,



To be delivered from February to April. By weight, roots and fronds trimmed off. We handle the

TRUE LONG-LEAVED SORT

only and can furnish in sizes of from 4 inches to 4—6 ft. We imported over 30,000 lbs past season, and can refer to the best firms in the United States as to satisfactory results. Full information as to freight rates, mode of treatment, etc., given on application. Our terms are consistent with **BONA FIDE** stock.

LIL. AURATUM, RUBRUM, LONGIFL., ALBUM. ETC.

Send for our Trade List and full descriptive, finely illustrated, retail catalogue. All desired information, estimates, etc., given cheerfully.

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ESTABLISHED 1878.

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EXTRA PANSY SEED.
Mammoth Sunbeam Strain.

A grand collection of giant flowering varieties; flowers measure 2½ to 3 inches in diameter, of perfect form and finest colors. Be sure to sow of it. Liberal trade pkt. 25 cts.; 3 pkts. 65 cts.; 6 pkts. $1.00.

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READY FOR Immediate Delivery,

30,000 LOW BUDDED ROSES.

Ulrich Brunner.	Baroness Rothschild.
Magna Charta.	Persian Yellow.
Mme. Gabriel Luizet.	La France, Etc., Etc.

$10 per 100; $90 per 1000.

Gen. Jacqueminot, 2 years old, own roots, $12.00 per 100.

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ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

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IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

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FINEST STOCK FOR FORCING IN THE NORTHWEST.

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TRY **DREER'S GARDEN SEEDS**

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

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FLORAL DESIGNS,

The Cut Flower Worker's friend. Fine book of 160 pages. Send **$3.50** for it, to

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In Club one year for $2.75.

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THE
American Carnation Society.
ORGANIZED 1891.

Annual meeting, Buffalo, N. Y., Third Tuesday in February, 1892.

DEVOTED TO THE IMPROVEMENT OF THE CARNATION.

ANNUAL MEMBERSHIP FEE, $2.00.

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CARNATION
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A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "DORINDA," a seedling of 1888—one of the best.

Catalogue will be ready Dec. 10, '91. Send for it.

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Winner of the Ladenburg Cup for best pink
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of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12 00 per 100; $100 per 1,000.

Send for general price list.

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PURITAN.
NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:
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From 2¼-inch pots, $12 per 100; $100 per 1,000.

Send for catalogue with full description of this and other varieties.

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ROOTED CUTTINGS OF
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Nice, healthy Rooted Cuttings of Carnations of all the leading and newer sorts, in any quantity after Dec. 10th. Orders received for future delivery at 10 per cent. discount from price list. Correspondence solicited.

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Carnation Cuttings.
NEW AND STANDARD SORTS.

SEND FOR PRICE LIST.

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SEEDLING **CARNATIONS** WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN, besides the best novelties and a full list of standard sorts.

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CYCLAMEN FLOWERS
will sell if they are good; cyclamen plants also. The **giganteum strain** is the only one worth growing if you grow for sale, and there are strains and **strains** of the **giganteum** also. It is not how cheap; **but how good!** Remember that! **Gardiner's strain of giganteum** comes high; but it's worth the difference. Sow **at once** for next winter's flowering. $2.00 per 100 seeds; $8.00 for 500 seeds; $15.00 for 1000 seeds.

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Carnations. Some 30,000 feet of glass are devoted to Carnations alone, with two propagating houses each 100x10; these will be kept filled with cuttings of the three best Novelties of last season—**LIZZIE McGOWAN, HECTOR and GOLDEN GATE;** also the best of the older sorts and other novelties of merit. They will be ready for delivery DECEMBER 20th and later as desired. CUTTINGS will not be sent out until well rooted and every effort made to give satisfaction in all particulars.

READY NOW, a fine lot of **GERANIUM CUTTINGS,** all of the very best varieties Old and New, making them cheap at the price, $2.00 per 100; $15.00 per 1000. Other miscellaneous stock later on. It will pay you to watch my adv. for changes.

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INTRODUCERS' STOCK OF

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—— BEST VARIETIES OF LAST SEASON AND STANDARD SORTS. ——

Lizzie McGowan, Hector, Mrs. Fisher, Golden Gate, Fred Creighton and other good ones in any quantity.

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30 varieties CARNATIONS. 36 varieties COLEUS. Best bedding GERANIUMS.

ALEX. McBRIDE, Alplaus, N. Y.

Carnationists

Should not fail to have their sign-boards in our new directory and reference book, among the pages devoted to carnations. Advs. must be received by Jan. 10 at the latest.

American Florist Co.,
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ROOTED CUTTINGS **CARNATIONS** ROOTED CUTTINGS.
A FULL LIST OF CHOICE SORTS,
Tested Novelties and Prize Varieties
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It will pay you to send for my price list of

CARNATIONS, COLEUS, CHRYSANTHEMUMS, TUBEROUS BEGONIAS, AND GERANIUMS,

Before buying elsewhere.

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Adiantum Farleyense.
CUT FRONDS SPECIALLY CHARGED WITH MOISTURE.

Will stand several days' travelling without injury. Sizes from 6 inches to 24 inches. Prices according to size.

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SMILAX, 2½ inch pots	$1.50	$12.00
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THE GREAT **ANTIPEST.**
For particulars, see next week.
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Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A RETROSPECT.

The year 1891 having passed into history with all its hopes and fears, its successes and reverses, it behooves us now, in bidding it a kind farewell, to devote a few moments to a retrospective glance.

The regular reader of the FLORIST has been kept well and promptly informed of the various happenings of the year "curious, diverting or valuable," and if he has been a careful reader (How could he be otherwise?) of these columns, a review of the incidents and the lessons of the year will be for him almost superfluous.

Still we will venture to remind him that there have been many things for which he should in common with the rest of us be thankful. If he be a Chicago man we would remind him that Chicago's cup has been filled to overflowing, for even as the year 1891 came in the great king of rascals, Neal, who had been bequeathed to her by New York, possibly in partial revenge for her loss of the World's Fair, went out, shook the dust of her streets from his feet and sloped to the westward.

Then the whole trade has cause for gratitude for the biggest Easter business ever experienced, for the appointment of John Thorpe as Chief of the Division of Floriculture, for the numerous weddings which it is to be hoped brought as much pleasure and satisfaction to the active participants as they did profit to the florists, and for the large number of big funerals too, on the principle that "everything is grist which comes to our mill."

The hail sufferers who were under the protection of the F. H. A. and the successful bowling teams have equal reason to be thankful for their good luck. The Nomenclature Committee and the F. P. A. should congratulate each other that they are not in the county jail for their attacks upon the innocent people who are too good for this world and *you* should be extremely grateful if you have not had a chrysanthemum named after you.

The great movements inaugurated in the course of the year just passed, the reforms proposed and the useful knowledge acquired have been of unusual extent and importance. The great carnation boom and organization of the American Carnation Society, the many grand floral exhibitions, private and otherwise, the growth of the great U. S. Nurseries, the birth of the Telegraph Delivery Association, the introduction of the FLORIST'S "Telephone," the intertwining of the Stars and Stripes and the Union Jack at Toronto, the development of phenomenal ten-pin experts in every section, are all indications of our rapid strides, not to mention Supt. Porter's astounding census statistics. And in this connection how pleasant it is to reflect that the millions on millions of money shown to be invested in the florist trade are so sub-divided and scattered over so much territory that none of us are likely to be called upon *a la* Russell Sage to disgorge in response to the demands of the wicked dynamiter.

Among the acquisitions of the year which have attracted particular notice are Canna "Star of '91," Rose "Waban" and the rediscovered Cattleya labiata.

We must not undervalue the mental advancement which must have accrued to the trade at large from Brother Chitty's memorable carnation tussle, the AMERICAN FLORIST'S great Easter number and the Hews-Whilldin Standard Flower Pot controversy; neither should we fail to express our satisfaction at the settlement for all time of the all-important question as to the eatableness of the calla root and the orchid, the identity of the Roehrs rose and the Crown of Thorns plant and at the rapid disappearance from our ranks of that old time incubus, the "gardener" who took care of the horses, did the chores and ate with the servants.

Take it all in all we have had a pretty good time in 1891, even if we have not yet succeeded in raising the blue rose and the blue chrysanthemum, in discovering the commission man who can give continuous and equal satisfaction to customers and consignors, establishing the proper equilibrium between fun and business at the S. A. F. conventions, agreeing with Mr. McMillan as to what constitutes a paradise, selecting a national flower or constructing a color chart; or hit upon a plan for inducing florist club members to express their opinion in the meeting instead of around the corner.

What of it if the humbugs and the fakirs and the "crape pullers" yet ply their trade; admitted that the violet disease continues to baffle us, that the chrysanthemum bug still revels and that the voice of the plant auctioneer is heard in the land; we have still got something to live for and let us not give up until we have seen the comparative value of steam and hot water heating settled, the comparative merits of Lamborn, Mrs. Fisher and Silver Spray demonstrated to everybody's satisfaction, the best method of marketing cut flowers agreed upon, the problem of porridge and tea or salad and something else at the conventions satisfactorily solved, New York's Botanic Garden in operation, the limit in size of chrysanthemum flowers reached and all of John Thorpe's predictions realized.

Good-bye, old 1891; you have done well for us, but there is plenty of work left for 1892.

STEPHANOTIS FLORIBUNDA FRUITING AT BUFFALO.—Mr. V. Hamann writes us: A large plant of stephanotis in the greenhouses of Mrs. G. H. Lewis is now bearing several good sized and nearly matured seed pods. And when the plant blooms again he hopes "to cross it with some other species of flowering plant," and asks "what for instance would make a good cross with this plant?" The fruiting of the stephanotis in greenhouses is not a very uncommon occurrence. So far as we know there are only two species of stephanotis in cultivation, namely, S. floribunda and S. Thouarsii and the latter is scarcely known in our greenhouses. Hybrids might be raised between these two species. But aside from this it is very questionable if any success could be attained. In the case of nearly allied genera, such as cattleya and lælia and sericographis and libonia, we have succeeded in getting bi-generic hybrids, but the instances are not many. The stephanotis belongs to the asclepiad family, in which also physianthus and hoya in the way of tropical vines common in greenhouses are included.

IN SPITE of our best efforts to do so we shall be unable to issue the new directory promptly on Jan. 1 as hoped. The great bulk of the list is already complete, but it has been even slower work than anticipated to get accurate information from certain places. We have been obliged to repeat requests several times and try again through different channels in many cases to secure the information wanted, and some towns seem to be entirely peopled with that class who never answer a letter. But we are getting there. If we can't make it one way, we try another, but this has taken up a great deal of time. In the compiling of this edition we have received some little assistance from postmasters in small places from which it has been in the past very difficult to get reliable information and when we do put the list on the press it will we believe be just as accurate as it can possibly be made. Certainly no former edition of the book was given the time, care and expense that has been given this one. Owing to the delay we can receive advs. for the book up to Jan. 10. If you have not already engaged space do so without delay. If you do not wish an adv. send in an order for the book. Price $2.

WE HAVE received a photograph of the chrysanthemum show at St. Louis and regret that owing to indistinctness in a vital part we are unable to reproduce same and present it to our readers.

SEND IN your directory adv. before January 10.

REMOVAL.

BURNS & RAYNOR,

Wholesale Florists,

HAVE REMOVED TO

49 West 28th Street, NEW YORK,

where they will have larger store space and better facilities for their rapidly increasing business. Their method of **Shipping Roses** has given them a large out of town trade and for good flowers, especially **Beauties** and **extra choice Roses** the above address is **Recognized Headquarters.**

Please mention American Florist.

CUT SMILAX

Over ¼ acre solid beds. First-class quality, 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.

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CHICAGO, ILL.
If you do not receive our regular monthly price-list write for same.
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79 Lake Street, CHICAGO,
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All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

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(Successor to E. J. HARMS),
WHOLESALE DEALER IN
CUT FLOWERS,
AND FLORISTS' SUPPLIES,
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

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GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
1122 PINE STREET,
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A complete line of Wire Designs.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

SMILAX.
Five Thousand extra heavy 6 to 7 foot strings ready at
$20.00 PER 100. CASH WITH ORDER.
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Wilkes Barre, Pa.

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S PENNOCK.)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

Wholesale Markets.

Cut Flowers.

BOSTON, Dec. 28.	
Roses, Gontier, Niphetos	6.00@ 8.00
" Perles, Sunsets	8.00@10.00
" Mermets, Bride	10.00@15.00
Carnations	1.50@ 2.00
Violets	1.00@ 1.50
Harrisii	12.00@15.00
Valley	6.00
Narcissus, hyacinths	2.00@ 4.00
Tulips	4.00
Mignonette	4.00
Callas	12.00
Stevia	1.00
Bouvardia	2.00
Smilax	12.00
Adiantums	1.00
NEW YORK, Dec. 28.	
Roses, Bon Silene, Niphetos	4.00@ 5.00
" Gontiers, Perles	6.00@ 8.00
" Cusins, Watteviles	10.00@12.00
" Mermets, Brides, Wabans	10.00@12.00
" Meteors	25.00
" Beauty	50.00@100.00
" Magnas	25.00@50.00
Carnations	1.50@ 2.00
Valley	4.00@ 6.00
Narcissus, paper white	2.00@ 4.00
Roman hyacinths	2.00@ 4.00
Violets	1.50@ 2.00
Harrisii Lilies	12.00@15.00
Mignonette	4.00@ 6.00
Smilax	12.00
Adiantums	1.00
Callas	12.00
Cypripediums	15.00
Lilac, per bunch	2.00
PHILADELPHIA, Dec. 28.	
Roses, Brunners	50.00@65.00
" Laings, Magnas	40.00@50.00
" Beauties	35.00@45.00
" La France, Albany, Bennetts	12.00@15.00
" Mermets, Brides, Guillots	12.00@15.00
" Cusins, Watteville	8.00@10.00
" Perles, Niphetos, Gontiers	6.00@ 8.00
Valley	6.00@ 7.00
Carnations	2.00@ 3.00
Violets	2.00
Mignonette	2.00@ 4.00
Bouvardia	2.50
Romans	4.00
Smilax	15.00@20.00
CHICAGO, Dec. 29.	
Roses, Am. Beauties	50.00@75.00
" Bon Silenes	6.00@ 8.00
" Perle, Hostes	10.00@15.00
" Brides, Albany	20.00@30.00
" Mermets, La France	18.00@25.00
" Niphetos	8.00@15.00
" Gontiers	8.00@10.00
" Bennetts, Dukes, Wootton	20.00@25.00
Carnations, short	1.50@ 2.00
Carnations, long	2.00@ 5.00
Romans	4.00@ 5.00
Narcissus	5.00@ 7.00
Violets	1.50@ 2.50
Valley	8.00
Heliotrope	1.50
Bouvardia	2.00
Poinsettias	25.00
Camellias	10.00@15.00
Smilax	16.00@20.00
Adiantums	1.25@ 1.50

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

You still have ten days in which to get your adv. in our new directory. Mail order and copy at once.

CARNATION BLOOMS.
IN FANCY COLORS—LONG STEMS.
I solicit standing orders from florists and others throughout the country, as I make a specialty of shipping them long distances safely by express.
WANTED! 50 plants or more of Scented Geranium **London Blue.** Mail sample plant or foliage with price, to the undersigned.
CHAS. T. STARR, Florist, Avondale, Chester Co., Pa.

EDWARD C. HORAN,
Wholesale Florist
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

SEE ADVERTISEMENT OF
YOUNG BROS.
ON PAGE 453.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST
32 West 30th Street,
NEW YORK.
ROSES SHIPPED TO ALL POINTS.
Price List on Application.

FRANK D. HUNTER,
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51 West 30th St., NEW YORK.

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HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

W. A. R. MOREHOUSE is reported to have engaged with Jas. Vick's Sons.

MRS. A. C. NELLIS, wife of the well known seedsman, died at her residence on Staten Island December 10th.

THE well known case of Meggat vs. Breck was reported to have been settled, the defendant paying claim in full with interest.

AN INTEREST in *Vick's Magazine* has been bought by H. P. Hubbard. He is booming it by a personal canvas. The magazine has been increased in size as well as in circulation. Mr. Hubbard is an old time boomer.—*Adv. Gazette.*

News Notes.

CONCORD, N. H.—A. L. Shackford, florist, has failed.

CLEVELAND.—Mr. John Miller, gardener to Mr. W. J. Gordon, has purchased the greenhouses of Mr. J. C. Gooding, the latter retiring from business.

LONDON, ONT.—The Florists' and Gardeners' Club will enjoy its first annual supper January 4, at the Revere House. It promises to be a most enjoyable affair.

LITTLE ROCK, ARK.—The Little Rock Florists' Club will at the meeting on Jan. 8 elect officers for the ensuing year and discuss the question of a chrysanthemum show next November.

TOUGHKENAMON, PA.—Mr. J. C. Chambers, the carnation grower, has associated his brother, Mr. C. P. Chambers, with him, and the firm style of Chambers Bros. has been adopted.

SALEM, O.—Mr. J. E. Bonsall has associated his son, Le Roy T. Bonsall, with him in business, and the firm name of J. E. Bonsall & Son has been adopted. The firm will make the growing of smilax a specialty, having now over ¼ acre of smilax beds exclusive of walks.

DAVENPORT, IOWA.—The Davenport Florists' Club was organized Oct. 15 last with officers as follows: Wesley Green, Pres.; Theo. Nissen, Vice-Pres; J. T. Temple, Sec'y and Treas. The club gave a chrysanthemum show Nov. 24, 25 and 26 that was very successful, financially and otherwise.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.



Mammoth Verbena Seed.
NEW CROP NOW READY. Choicest mixed varieties in the brightest colors. Per trade packet, 50 cts; 1-4 ounce, $1.00; per ounce, $4.00.
The strain we offer this year is far ahead of that sold last season with such satisfactory results. Only the richest colors have been retained, and the largest flowers selected for seed. Seedling plants are now preferred by the leading florists for spring sales because of their vigor and freedom from rust. With this strain to depend on there can be no doubt about the success.
DREER'S DOUBLE HYBRIDIZED PETUNIA SEED, so well known to the trade for the past 10 years, constantly improving by judicious hybridizing. Trade pkt. containing 700 seeds $1; small paper 15c.
DREER'S SINGLE GRANDIFLORA MOTTLED AND STRIPED PETUNIA. This strain will give splendid results in pot culture, as well as open ground. It is rich in colors and markings, and of largest size. ¼ ounce, $2 50; trade packet, 75 cts.
Cobea Scandens per oz. $.75 Centaurea Candidissima, per oz. $2; per 1000 seeds, 50c.
Smilax Seed, per lb. $8 " .60 Gymnocarpa, " 50c. " " 30c.
☞ Preliminary flower seed list to the trade of seasonable seeds now ready; mailed free to the trade.
HENRY A. DREER, Philadelphia.

FLORISTS SEEDS. The new crop of many varieties is now in store. *All Spring Bulbs Ready.* **J. C. VAUGHAN,** BOX 688 **CHICAGO.** **SPRING BULBS.**

C. H. JOOSTEN, IMPORTER, 3 Coenties Slip, NEW YORK.
ORDERS NOW BOOKED FOR SPRING IMPORTATION FOR
HARDY ROSES, CLEMATIS, AZALEAS, ETC. from the Boskoop, Holland, Nursery Association.
Also NURSERY AND FRUIT TREE STOCKS from LENAULT HUET, USSY, FRANCE.
Catalogues on application. **C. H. JOOSTEN.**

Rooted Cuttings of PETUNIAS AND VERBENAS.
We have all the orders we can fill to JANUARY 15th. Orders received will be booked and filled in rotation as received as soon as possible.
We have no price list, but use this space to let you know what we have. Of most sorts the color is printed on the label. We have now ready Ageratum White Cap, and a good blue sort; Alternanthera p. major and aurea nana, and Cuphea (cigar plant), for 50 cts. per 100 by mail. By Dec. 20 will have 10 varieties of Geraniums, $1 20 per 100 by mail; $1.00 by express.
Cash with order. Not less than 10 of a kind.
S. O. STREBY,
Lock Box 77. *UPPER SANDUSKY, OHIO.*

Tuberous Begonias.
DRY ROOTS, white, yellow, pink, red, $6.00 per 100. Mixed, $5.00 per 100. Small ones sent by mail at $4.00 per 100.
DOUBLE, separate colors, $10.00 per 100.
HYDRANGEA THOMAS HOGG, from 2-in. pots, per 100, $3.00.
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EXTRA CHOICE FLOWER SEEDS.
List free on application.
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THE FINEST STOCK IN THE WORLD
SANDER'S,
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ENGLAND.
Thirty minutes from London.
Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.
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Palms and Dracaenas.
The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10 00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each.
DRACÆNA INDIVISA VEITCHII,
DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots, strong, 15 to 18 inches $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracaenas and Palms, etc., etc., see descriptive catalogue and new wholesale list.
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NANCY, FRANCE.
Catalogue of Novelties including BEGONIAS, ZONALE PELARGONIUMS, GLADIOLUS, MONTBRETIAS, ETC., ETC. now ready, and will be mailed free on application to their Agents,
C. C. ABEL & CO., New York.

You still have ten days in which to get your adv. in our new directory. Mail order and copy at once.

OUR NEW FLOWER SEED CATALOGUE
is now ready, containing all the choicest strains of Florists' Seeds procured in fresh quality from the most reliable and careful growers. Will be mailed free to the trade upon application. This catalogue contains likewise a full list of **Spring Bulbs,** such as Lilies, Gladiolus, etc. Also of general **Greenhouse Requisites.** Address
AUGUST RÖLKER & SONS, NEW YORK,
SEASON 1892. 136 and 138 W. 24th STREET, or STATION E.

WHY You Should Grow Mushrooms.
Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.
During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.
Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or outhouses, in the open field or in mushroom houses.

HOW You Should Grow Mushrooms.



First get spawn that will grow. It must be fresh, well spawned, and in good condition. **Gardiner's Celebrated English Mushroom Spawn** is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, **"Mushrooms for the Million,"** Mailed free. **Falconer's "Mushrooms and How to Grow Them."** Published at $1.50. (Gardiner's price $1 35 post free.) **Robinson's "Mushroom Culture,"** 50 cts. postpaid.

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John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, $8.00 per 100 lbs. Special rates to large growers. Address all correspondence to **21 North Thirteenth Street,** Philadelphia, Pa.

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Bulbs. Bulbs. Bulbs.

At these low prices for the next 30 days only. CASH WITH ORDER.

			Per 100	Per 1000
Lilium Auratum,	7 to 8	inches.	$ 3 50	$25.00
" "	8 to 10	"	4 50	35 00
" "	10 to 12	"	8 00	70 00
" **Album,**	7 to 8	"	6 50	55 00
" **S. Album,**	9 to 10	"	7 50	65 00
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" **Longiflorum**	4 to 5	"	1.75	12.50
" "	5 to 7	"	2 50	20 00
" "	7 to 8	"	4 00	35 00
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" **Tigri. fl. pl.**	5 to 6	"	5.00	45.00
" **Krameri,**	4 to 5	"	5 00	41.50
" **Atropurpureum,**			5 00	
" **Coridlon,**			2 50	
" **Batemanni,**			4 50	

Other varieties on application.

CYCAS REVOLUTA, best long-leaved variety, from 6 inches to 6 feet, 10 cts. per lb. Discount on larger orders.

CYCAS CIRCINALIS by January, '92. Price on application

Rhapis flabelliformis, 25c. to 45c. per shoot.

CAMELLIAS, from $25 00 to $60.00 per 100.

Send for new Catalogue.

FELIX GONZALEZ & CO.,
303 to 312 Wayne Street, SAN FRANCISCO. CAL.

KAE SHEAN CO.,
Growers of CHINESE SACRED LILY,
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Goods can be obtained at the following houses:
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Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
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United States Nurseries.

January 1st, 1892.

Dear Readers:

With this first number of 1892, we take pleasure in wishing you all a

HAPPY NEW YEAR

also to say that in the future you will find us in this place, where you may look for

SPECIAL OFFERS

of goods of sterling merit, in

SEEDS
PLANTS
AND
BULBS

FOR THE **FLORISTS' TRADE.**

We thank y u for past patronage and trust to be favored with your future commands.

Yours respectfully,

SHORT HILLS, NEW JERSEY.

PITCHER & MANDA.

TUBEROSE BULBS.

June Stock. Well Cured.

Dwarf Pearls, $1.25 per 100; $10 per 1000.
Tall Double, $1.25 per 100; $10 per 1000.
Liberal discount on larger lots.
Samples free.

W. W. BARNARD & CO.
6 & 8 North Clark St., CHICAGO.
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EXTRA VERBENA SEED.
IMPROVED GIANT.

This magnificent strain of Mammoth Verbena has given perfect satisfaction to my many customers in the florists' trade, and is justly claimed to be the finest in cultivation. The florets measure over an inch in diameter, borne in immense umbels. Very free flowering and of the finest colors. Every florist should be sure to sow of it. Trade pkt. 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1 00.

JOHN F. RUPP, Shiremanstown, Pa.

CH. MOLIN, Seedsman,

LYONS, FRANCE.

I send free, postpaid to any person writing for it, my catalogue, giving a list of new Seeds and Plants for 1892, in English, French or German.

I beg that cultivators of **Tuberoses, Liliums** and other bulbs will make me offers per 10,000 of each sort, and will also send me their catalogues.

Mention American Florist.

HAIL Lock the door BEFORE the horse is stolen. Do it **NOW!**
JOHN G. ESLER, Sec'y F. H. A.,
Saddle River, N. J.

Chrysanthemum Shows.

Your correspondent gave a very successful chrysanthemum show this season, single handed, having no florist club to help him out, and I think no town having at least one wide awake florist should be without these fall shows. It is an A No. 1 advertisement for the florist who will get it up, it creates a demand for his goods and can be made very profitable if well handled.

Wishing to map out another show for '92 would like through the FLORIST to exchange plans for conducting similar shows with those who have had experience, as ideas collected from a number of plans might be of great benefit. F. F.

ONE WM. LAUF, something over 5 feet tall, fair, somewhat stout, speaking both English and German and according to his story from Frankfort-on-the-Main, is reported to have been guilty of uncommercial transactions in Brooklyn, Chicago and Milwaukee. It is further stated that Milwaukee parties are anxiously looking for him and that H. E., Box 87, Milwaukee, Wis., particularly desires to know his whereabouts.

THE Astoria Nurseries, Astoria, N. Y., have been rented by J. A. Wilson, who has been foreman of these nurseries for the last two years, and L. G. Forbes, foreman for W. P. Wight, Madison, N. J. The business will be conducted under the firm name of Forbes & Wilson.

YOU still have until January 10 to get an adv. in the American Florist Co.'s new trade directory and reference book.

STOCK PLANTS OF

CHRYSANTHEMUMS.

JESSICA once more to the front. Those that had it, wished they had grown more. Those that had none, wished they had it.

NOW IS THE TIME TO ORDER STOCK PLANTS.

We offer Stock Plants of Jessica, 25c. each; Rohallion, the grand new early yellow, 25c.; Mrs Gerard, the earliest large pink, 25c. The best flowers of this variety wholesaled at 50c. each in the New York market.

These three varieties have now flowered and are ready for shipment. All other commercial varieties on hand and ready as soon as flowers are cut.

Orders filled in rotation. Do not delay ordering if you want these varieties as stock is limited.

THE OAKLAND ROSE NURSERIES,

BAY SIDE, L. I., N. Y.

Chrysanthists

Should not fail to have their signs in our new directory and reference book, among the pages devoted to chrysanthemums. Advs. must be received by Jan. 10 at the latest.

American Florist Co.,

CHICAGO.

YOUR CHOICE

Chrysanthemums.

Stock plants of 600 varieties. All the Novelties. All the best sorts for Cutting and Market purposes. Not a diseased plant in the lot.

Send for list.

DR. J. S. HINNERSHOTS, Reading, Pa.

WABAN 'MI M. THE best new mum of '91. BEACON, the grand Boston white; VIVIAN MOREL pink, the best new French; PH. BREITMEIER, yellow; J. C. VAUGHAN, plum crimson; V. H. HALLOCK, satiny pink. Young plants Feb'y 1st. The six for $1 00, six plants of any one for $1 00, CASH WITH ORDER.

WOLFSDEN GARDENS, Western Springs, Ill.

TUBEROUS BEGONIAS.

LARGEST STOCK IN AMERICA.

BETTER THAN IMPORTED GOODS.

SINGLE. { MIXED, SELECT. per 100, $7.50
" " (small tubers). " 4.50
Choicest Seedlings, equal to named flowers, in 12 distinct colors and shades per doz. 2.50

DOUBLE. { MIXED. per 100, 10.00
" " (small tubers) " 6.00
In distinct colors, White, Rose, Pink, Scarlet, Crimson and Salmon. per doz. 2.50
Choicest select Seedlings, in 12 distinct colors and shades " 4 00

SEED.

Our seed this season is extra fine; saved from our collection of over 200 named varieties, all carefully hybridized. We guarantee it not to be excelled by any Foreign house. January is the best month for Sowing.

SINGLE OR DOUBLE, mixed trade pkts. $1.00
SINGLE TO COLOR, White, Ye. , Rose, Pink, Salmon, Scarlet, Buff, Salmon Rose and Fancy. (Nine colors, $4.00), per pkt. 50 cts.
DOUBLE COLLECTION, 10 name rieties. $5.00
SINGLE VARIETIES by weight. 5 grains, $2.00, 1-32 oz. $5.00
DOUBLE " " " 5 grains, $3.00; 1-32 oz. $7.50

New Descriptive Catalogue ready about January 1st.

F. J. MEECH & SON, CHARLEVOIX, MICH.

Mammoth Tuberous Begonias.

Strong and healthy bulbs now ready. Stock limited. Therefore order early.

Trade prices, assorted colors.....per 100, $6 00
Dark red, rose or brilliant red..... " 7.00
Whites or yellows..... " 8 00

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100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. ROSES, 8 leading sorts.
VIOLETS, the Neapolitan. COLEUS, 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

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ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

PALMS and FERNS

Well grown Specimen Plants, fit for immediate use.

		Each.
KENTIA,	3 to 3½ ft. high, 6-inch pots, 7 to 8 leaves	$2.50
do	2 to 2½ ft. high, 5-inch pots, 5 to 6 leaves	1.50
do	1½ to 2 ft. high, 4-inch pots, 3 to 4 leaves.	1.00
COCOS WED.	2 to 2½ ft. high, 6 to 8 leaves	2.00
LATANIA BOR.	2½ feet high, 6 to 8 leaves	1.00
PANDANUS VEITCHII,	2 to 2½ ft. 6-in. pots	2.00

FERNS—Well grown plants in 3 in. pots, for fern dishes, etc., in following varieties:

Pteris Hastata, Sieboldi, Cretica and Alba Lineata, Davallia Stricta and Fijiensis, Lastrea Leptophyllum, Polypodium, Blechnum and Polystichum, assorted, at $10.00 per 100.

E. W. WEIMAR, Mt. Vernon, N. Y.

Plants for Season.

ALL THE FOLLOWING ARE DESIRABLE FOR HOLIDAY TIMES.

FOLIAGE PLANTS.	Doz.
Araucaria excelsa, 6-inch pots, perfect specimens	$20.00
Dracæna fragrans, 2 ft.	5.00
" terminalis, good color, 2 ft...	5.00
" " 1½ ft.	3.00
" Bruanti and Congesta, 2 ft...	6.00
Areca lutescens, 2 ft.	10.00
" Baueri, 1½ ft.	4.00
Cocos Weddelliana, 1½ ft.	5.00
Grevillea robusta, 1 ft.	1.00
Aspidistra variegata, 2 ft., extra fine...	10.00
PLANTS TO FORCE.	
Azalea indica, finest sorts, specimens, 2 ft., over 100 buds each.	18.00
Azalea mollis, 15 to 20 buds.	4.00
Spiræa palmata, pink	2.00
" astilboides (new white).	4.00
Anthurium Scherzerianum (Flamingo Flower)	5.00

JOHN H. LEY,

ANACOSTIA, WASHINGTON, D. C.

YOUNG BROS.,

WHOLESALE ❋ FLORISTS,

20 West 24th Street,

NEW YORK.

Thos. Young, Jr. CONSOLIDATED. **John Young.**

The Largest Wholesale House in the Country.

AGENTS FOR THE BEST GROWERS. **FLOWERS SHIPPED TO ALL POINTS.**

Verbenas
FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30 00
" " Rooted Cuttings	1 25	10.00
General Collection, stock plants	3.00	25.00
" " Rooted Cuttings	1 00	8 00
H. P Roses, 2 years old, dormant	10 00	
Fine stock, 3-inch, Forcing Roses	8 00	75 00

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1.00	8 00
Feverfew (Little Gem), extra strong	2.00	15.00
Salvia splendens, extra strong	1.50	12.00
Moon Vine	2.00	
Ageratum, blue and white	1 25	10.00
Achyranthes Emersonii etc	1 00	
Heliotrope, light and dark—no rust	1.50	12.00

WOOD BROTHERS,
FISHKILL, N. Y
Mention American Florist.

VERBENAS.

Transplanted Rooted Cuttings, well assorted, $6.00 per 1000.
Rooted Cuttings, $5.00 per 1000.
Warranted perfectly clean. Cash with order.
W. B. WOODRUFF, Florist, Westfield, N. J.

You still have ten days in which to get your adv. in our new directory. Mail order and copy at once.

P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada:
C. C. ABEL & CO., P. O. Box 920, New York.

CHRISTMAS ROSES.
THE LARGE WHITE FLOWERING VARIETY.

Orders are now booked for fall delivery. Having the largest home-grown stock in the world, and in splendid condition, I can do them well. Last year the large size produced over seventy flowers. For several years they have given the greatest satisfaction to my customers.

Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
2nd size	14.00	"	115.00	"
3rd size	10.00	"	72.00	"
4th size	7.25	"	60.00	"
Smaller plants ($200.00 per 10,000)	2.50	"	23.00	"

Unknown correspondents are requested to add cash or good European references with the orders Orders can be executed at once. Special prices for bulbs and plants on application.

HERMAN BUDDENBORG, BULB GROWER,
Hillegom, - - Holland.

Association Flora, Boskoop, Holland.
NOW ON HAND IN NEW YORK:

25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other
PLANTS FOR FORCING AND DECORATING.
Address **P. OUWERKERK,**
P. O. Box 1845, NEW YORK CITY.
Catalogue on application.

Double White Primulas.

Fine plants from 3-inch pots, in bud and bloom, at $8.00 per hundred.
Address **A. R. REINEMAN & BRO.,**
39 Fifth Avenue, Pittsburgh, Pa.

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E. G. HILL & CO.,
Wholesale Florists,
RICHMOND, INDIANA.

GEO. W. MILLER,
WHOLESALE ❋ FLORIST,
1748 N. Halsted Street,
Chicago, Ill.
ROSES AND PALMS A SPECIALTY.

Clematis. Roses.

H. P. and Monthly, both pot and outdoor grown, good assortment, own roots, fine plants.
CLEMATIS, fine, well grown plants in choice assortment. Plenty of Jackmanii. Prices very low, on application.
F. A. BALLER, BLOOMINGTON, ILL.

Foreign Notes.

NEW ENGLISH PUBLICATION.—Garden Craft, Old and New. By the late John D. Sedding.

THE DOOR RECEIPTS of the Edinburgh chrysanthemum show were nearly $5,000, about $250 more than last year.

THE Royal Netherlands Horticultural Society held the second national chrysanthemum exhibition at Amsterdam Nov. 12 to 16. There were 109 entries.

CHRYSANTHEMUM SHOWS were as numerous as ever in England during the season just past and the chrysanthemum seems to be getting an even firmer grip on popular fancy than ever before.

WOOD WORK in an Austrian salt mine is said to be in an excellent state of preservation after standing several centuries and the case is cited as evidence of the preservation of wood by salt solutions.

A NEW VERBENA introduced by an Erfurt firm bears the delightful name of Verbena hybrida erecta compacta atrosauguinea. If the plant comes honestly by all these titles no description is necessary.

THE annual dinner of the National Chrysanthemum Society of England took place Dec. 1, with about 120 present. The tables were profusely decorated with chrysanthemums and the various toasts were eloquently responded to.

A NEW PRIMULA DISEASE called the primrose mildew has been determined by the scientific committee of the Royal Hort. Society of England to be a fungus bearing the title Ramularia primulæ, Thum. The species is new to Great Britain.

THE chrysanthemum show of the National Horticultural Society of France, at Paris Nov. 19 to 23, was extremely interesting. The principal exhibits came from the north and the south of France and were widely dissimilar. Those of the north were remarkable for their size, some of them being 8 inches in diameter, or as large as an ordinary sunflower, while those from the south were mostly small varieties and were noticeable for curious combinations of delicate colors and eccentric shapes. Some were hardly larger than immortelles.

J. Horace McFarland Company.

INCORPORATED 1891.

How does that look? It means that I have got to say "we" now, because there are more of "us"; but I'm in good company, I believe! Well, then, "we" are bigger than J. H. McF. all by himself, and we've enlarged, increased and extended his facilities for doing the right sort of printing for florists and the other plant and tree people. A fine new electrotyping outfit and a lot of other new machinery will help the Company to keep J. H. McF. hustling after work, and doing it! The florists are responsible for this move, and they want to notice that we're ready to do Catalogues in great shape at the Mount Pleasant Printery, and do them on time. Write to

J. HORACE McFARLAND COMPANY, Harrisburg, Pa.

[*P. S. by J. H. McF.*—The "we" will go better after a bit. Just notice that I'm right "in it" yet, at the same old stand, and the others are helping me to do better for all of us, and you!]



FANCY DAGGER

3,000,000 EVERGREEN CUT FERNS
NOW READY.

Special attention paid to supplying the wholesale trade.

Single thousand, $1.25; in lots of five thousand and upwards, C. O. D., $1.00 per thousand.

SPHAGNUM MOSS. Long, clean fibre, hand sorted, DRY or GREEN, $1.00 per barrel; 6 barrels, $5.00. 20 barrels, $15.00. BOUQUET EVERGREENS, $2.00 per barrel.

L. B. BRAGUE, Hinsdale, Mass.

LAST
Chance to get an adv. in our new directory and reference book. We

CALL
Your attention again to the permanent value of an advertisement in its pages.

FOR
It is to the benefit of the buyers of the book as well as to you and to us that the

ADVS.
Of all the live men in the trade should be found in its pages.

JAN. 10
Is the last date at which advs. can be received to be sure of insertion.

AMERICAN FLORIST CO., CHICAGO.

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, $2 00 per 100. Patent fastener with each letter.

WHEAT DESIGNS OF EVERY DESCRIPTION.

AGENTS: A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; E. Kaufman, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; J. Pitzholt, 291 Gratiot Ave., Detroit, Mich.; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.

J. A. Simmers, Toronto, Ont., Agt. for Canada.

XMAS PRICES.

Balsam and Spruce, first-class forest grown, f. o. b. here, 4 to 5 ft. 10c; 5 to 6 ft. 14c; 6 ft. 18c; 7 ft. 25c; 8 ft. 30c; 10 ft. 50c; 12 ft. 65c; 14 ft. select, $1; 16 ft. $1.50; 18 ft. $2. 5 per cent off 100. 10 per cent off 200 tree lots if ordered by Dec. 1st. Bouquet Green, $5 per 100 lbs. Wreathing, light $3, medium $4, heavy $5 per 100 yds. 10 per ct. off 500 yds. and more. Holly, bbl. $2 25. Long Needle Pines, 35c. Chamærops Palm Leaves, $4 per 100. Chamærops Crowns, large, 75c; small 35c. Wild Smilax $3 50 per bbl.; $7 per case. Fern leaves $1 50 per 1000. A full line of other Decorative goods. Send for a complete list and telegraph code. Quick shipping facilities; four through roads. Also Sphagnum Moss, large bales, $1 50. Rotted Peat $1 per bbl. Terms cash with order or bank reference. Note, this ad only appears every other week.

JOSEPH BANCROFT, Cedar Falls, Iowa.

FOR HALL AND WINDOW DECORATION.

NARCISSUS, ROMAN HYACINTHS and LILY of the VALLEY, in pans.

PRIMROSES, in pots and pans. FERNS for jardinieres; JERUSALEM CHERRIES, Etc.

W. S. EWELL & SON,
38 Wayland St., DORCHESTER, MASS.

Tobacco Stems.
I make a Specialty of packing stems for flower growers.

Prices and references sent on application.

H. A. STOOTHOFF,
417 E. 76th Street, NEW YORK CITY

ADIANTUM CUNEATUM.
THE POPULAR AND USEFUL FERN FOR FLORIST'S CUT FLOWERS.

We have an excellent stock of strong, healthy plants full of good foliage, in 5-inch pots.

$2.50 per doz.; $20 per 100.

Also the largest and most complete stock of plants and bulbs offered at wholesale by any house in the west.

Write for our new Wholesale Priced List, Ready January 10.

MICHEL PLANT AND SEED CO.,
St. Louis, Mo.

WHAT HAVE YOU TO EXCHANGE
— FOR —
White Cape Flowers
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In crates, $3.50 per 100 lbs. Larger quantities extra discount.

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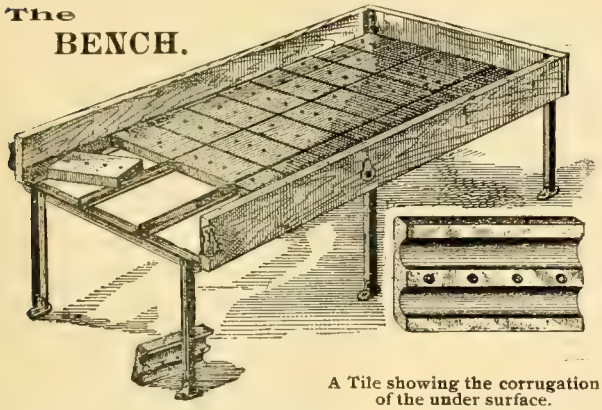
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POINT 1.—The new book will contain an accurate list of those in the trade on the Continent of North America, January 1, 1892.

POINT 2.—In addition to the above it will contain the statistics of the Florist, Nursery and Seed Trades from the last census.

POINT 3.—It will also contain a complete list of all National and Local Trade Organizations, with just the information about each that you want to have convenient for reference.

POINT 4.—It will contain an alphabetical list of Roses, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

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FLORISTS' SUPPLIES ONLY,

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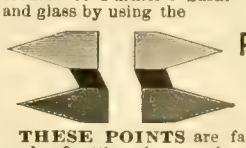
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Mention the AMERICAN FLORIST when writing advertisers on this page.

"Amalgamated Roses."

Is there an epidemic of nonsense about to overwhelm the country? If not how can the following from the New York *World* be accounted for?

A Broadway florist showed a *World* reporter yesterday a new rose which after many experiments, occupying several months of time, he has at last brought to perfection, and it is certainly a wonderful production. The flower is perfectly dividedly perpendicularly, one-half being a beautiful pearl white and the other half a delicate bluish pink.

This strange blending of colors has been produced by the close study of flower life. The pink half comes from the Mermaid rose—father or mother as the case may be—and the pearl white half is derived from the Bride rose. This rose will not be in the public market for many months to come, as there is as yet only one plant of this new species, and the flower shown is the first ever produced. This will no doubt prove a novelty and be in great demand as soon as the grower is able to produce them in quantities.

How the cross was effected is kept secret by the grower that business rivals may not profit from his labor.

Shades of Ananias and Sapphira!

And under the heading of "A New Flower" the New York *Record* breaks forth as follows:

The latest flower this season is called the "Cosmos," a delicate blossom with white petals and a yellow centre, the whole resembling very much the daisy, only it is nearly twice as large as the largest of this white soul of the meadows.

The Cosmos has been brought to its present state of perfection by a West Broadway florist, who has united the daisy with the blood-root flower and by a series of grafting has produced a most beautiful plant, which takes the place of ferns to a wide extent in trimming up baskets. The Cosmos keeps fresh for a long time and looks like a cross between a dogwood blossom and a daisy. It is not affected by cold or heat nor the stuffy atmosphere of overpeopled rooms. Just why this flower should have been called the Cosmos is not clear.

This is about the rankest thing we have struck yet.

PLANTÆ CULTERATÆ EXSICCATÆ is a new publication announced by the Orcutt Seed and Plant Co., of San Diego, California, and of which the first fascicle will probably be issued early in the spring.

You still have ten days in which to get your adv. in our new directory. Mail order and copy at once.

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Three-Piece Wood Mailing Box.

The neatest and strongest box on the market. Send 15 cts. in stamps for sample nest and price list. I also make Cut Flower and Express Boxes.

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Successor to SMITH & SMITH,

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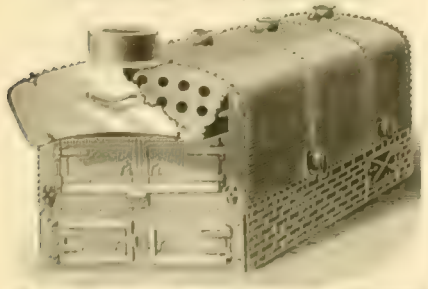
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Wish to inform their customers that notwithstanding the recent disastrous Fire in their factory, through the kindness of their friends in the trade, they will be able to fill all orders which they may receive, with an excellent quality of

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All orders will receive prompt attention.

We are now rebuilding, and hope to be able to furnish our own Superior Flower Pots in a very short time.

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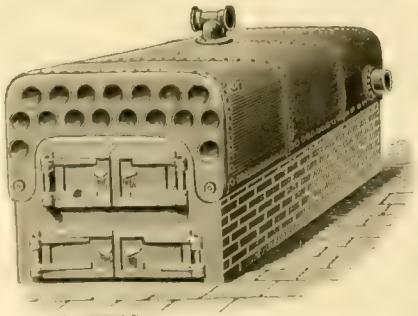
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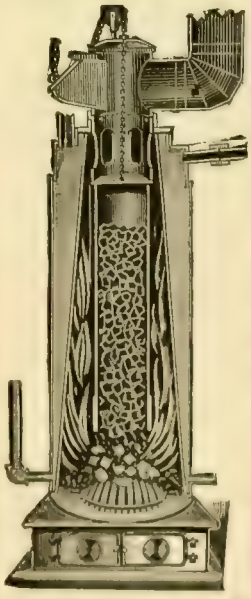
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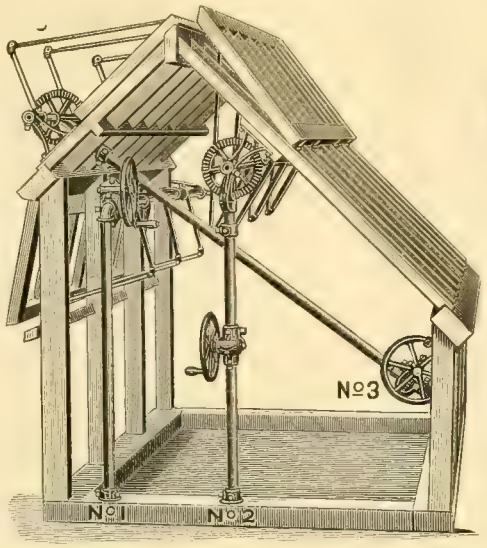
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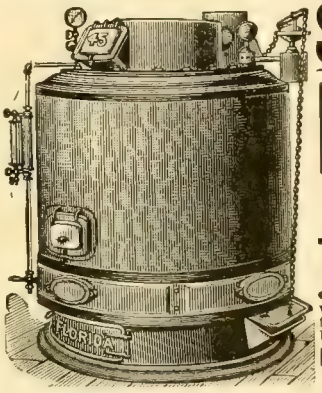
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THE Florists' Club of California, composed mainly of San Francisco florists, is trying some interesting experiments. At the last meeting it adopted a resolution calling upon growers to sell their product to members of the club only, and it was also resolved that after June 1, 1892, florists who are members of the club shall buy only from growers who are members of the club, any member violating the rule to be subject to suspension from the club. It was also decided to publish a statement in the daily papers requesting people not to give their funeral orders to solicitors, but to patronize the stores only.

A PHOTOGRAPH of a new style gates ajar has been sent us by Mr. F. C. Haupt, Louisville, Ky. The arch is in the form so much affected by the Japanese and at the apex assumes the shape given to the top of the trinity cross.

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Florists, Nurserymen & Seedsmen

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GEM STEEL TOWER



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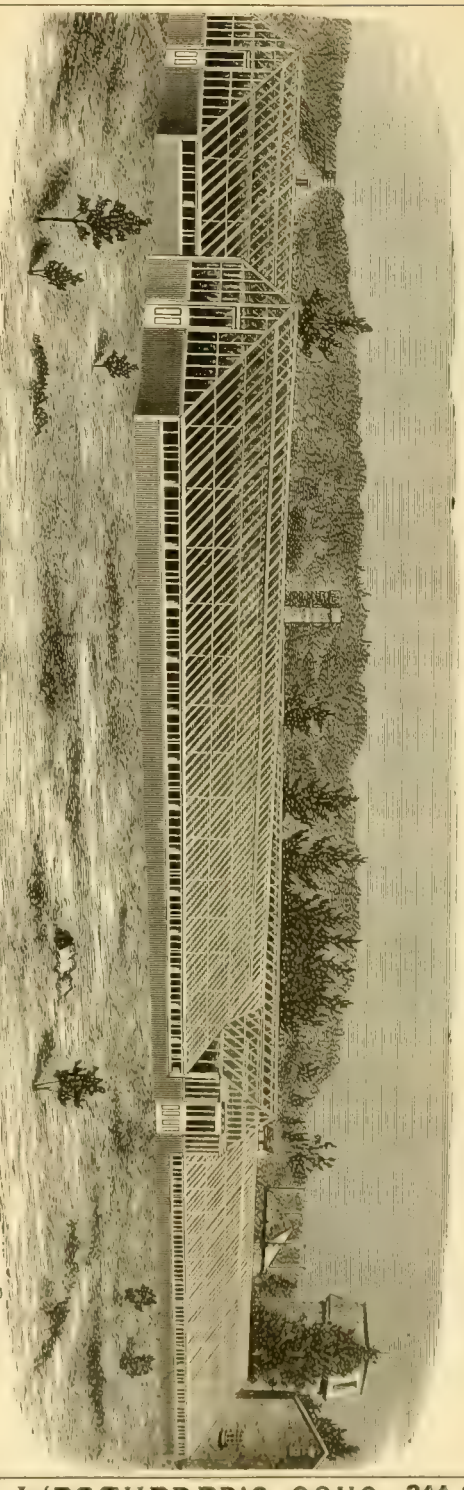
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A WEEKLY JOURNAL FOR THE TRADE.

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Vol. VII. **CHICAGO AND NEW YORK, JANUARY 7, 1892.** **No. 188**

THE AMERICAN FLORIST

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Entered as Second Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

54 La Salle Street, CHICAGO.

SOCIETY OF AMERICAN FLORISTS.
JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

AMERICAN CARNATION SOCIETY.
EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., president; C. J. Pennock, Kennett Square, Pa., secretary. First annual meeting and exhibition at Buffalo, N. Y., February 16, 1892.

FLORISTS' PROTECTIVE ASSOCIATION.
Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BEATTY, Sec'y, Oil City, Pa.

AMERICAN CHRYSANTHEMUM SOCIETY.
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FLORISTS' HAIL ASSOCIATION.
Insures greenhouses against damage by hail.
JOHN G. ESLER, Secretary, Saddle River, N. J.

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SEND US a report of the holiday trade in your city or town. Did it compare favorably or otherwise with that of last year?

SEND IN your order now for a copy of our new Directory, to be issued next month. Price $2.

ANOTHER installment of Mr. Menand's recollections will appear in next issue.



Something About Orchids

BY RICHARD GARDNER.

[Extracts from paper read before the Newport Horticultural Society.]

The culture of orchids in general is too long a subject for me to undertake, so I shall speak of only a few—those which I call the most useful and with which I am best acquainted.

I think the cattleya ranks first, and among the varieties of C. Trianæ are some of the most useful and beautiful. The flowering season is from January to April, and the flowers will last three weeks in perfection if kept in a cool dry house. There are over 40 varieties of this cattleya, each supposed to be somewhat different in color or markings.

They grow either in pots, or in baskets suspended from the roof. I prefer baskets on account of bringing them near the light. When grown in pots the pots should be half filled with broken pots or pieces of brick and charcoal, covered with a layer of sphagnum moss. For potting I use fern roots chopped up with a little sphagnum moss and small pieces of charcoal. The plant is elevated above the pot keeping the eyes well above the surface. Baskets will not need so much drainage. The best time for potting and top dressing is just before the plants make their growth, so that the young roots may work into the new material.

When growing they require to be kept moist, and plenty of water should be thrown between the pots and on the floor of the house in order to maintain a moist atmosphere, the temperature being kept at from 70° to 75°.

When they have made their growth they should be allowed to go to rest, giving only enough water to keep them from shrivelling. The temperature should not be allowed to drop below 60° and they should have plenty of light, only a thin shade is needed. Plenty of ventilation should be given, but avoid cold draughts.

White scale and yellow thrips are the worst enemies of the cattleyas. Tobacco smoke is the best remedy for thrips and continual spraying will keep down the scale.

Cattleya Percivalliana is a very beautiful winter flowering cattleya. The flowering season is in January and February and it requires the same treatment as C. Trianæ.

Cattleya Mossiæ is a grand free flowering species, one of the oldest and most widely known cattleyas. There are over thirty varieties. They flower from March to August and require the same treatment as given for C. Trianæ.

Next in order come the lælias. They are nearly allied to the cattleyas and in fact cross readily with the species of that genus. The lælias are among the most useful of orchids, being robust growers and producing their beautiful flowers in profusion. Some of the flowers are as much as eight inches across. There are about 30 varieties of Lælia purpurata. Treatment is the same as given for the cattleyas mentioned.

Most of the calanthes are terrestrial. Calanthe Veitchii and the varieties of C. vestita are in my estimation the best of the genus. I am better acquainted with them than with any other orchid as I have grown them for 13 years.

They are deciduous—which is rather a disadvantage—and the flowers are not so gorgeous as the cattleyas and lælias, but coming into flower late in the fall, when flowers are scarce, their long spikes of showy flowers are most useful.

The flower spikes of C. Veitchii come from the base of the new bulb. Good, strong bulbs will send up a spike between three and four feet high, gracefully arching and bearing from 30 to 40 rich rose-colored flowers about two inches across. The Christmas of 1890 I remember counting 30 fully expanded flowers on one spike; a few had fallen off and there were several yet to come.

Calanthe vestita and its varieties are very beautiful. The flower spikes are more arching than those of Veitchii, and the flowers are creamy white, with a blotch of rich crimson in the center of the lip of C. vestita rubro-oculata, and a yellow blotch in that of C. v. luteo-oculata.

There are several hybrids of merit. I have raised one myself. I exhibited it at the 1890 chrysanthemum show of the Massachusetts Horticultural Society and was awarded a silver medal. It is a cross between C. Veitchii and C. vestita rubro-oculata. The flowers are much like those of the last named, which is the seed parent. They are pure white with a crimson eye whereas the parent is a creamy white. The individual flowers are larger than in either parent and of better substance. It is also a vigorous grower and easily increased.

Calanthe vestita and varieties require a temperature of 70° when growing, with plenty of moisture in the house. They are terrestrial orchids and thrive best in pots. The potting material I use is two parts turfy loam that has been in a pile long enough to kill the grass roots (I shake out some of the earth and save the rough, fibrous pieces), one part horse droppings or old mushroom bed, the remaining part being made up of broken pots, charcoal broken small, sphagnum moss and a little sand mixed well to-

gether. It is best to use clean pots. They require plenty of drainage; for a 6-inch pot I use two inches of broken pots for drainage.

They begin to make their growth the latter part of March or the beginning of April, and as soon as the young growths are an inch long the young and tender roots begin to shoot downwards. They should be potted at this stage. If delayed for even a few days the roots will have grown so much that they are sure to get broken in potting. When potting I fill the pot up level with the potting material, then place the bulbs on and pack more of it around them to keep them upright, finishing up with fresh sphagnum moss. I then give them a good watering with a rose watering pot. While they are wet I press the sphagnum firmly around them, taking care not to bruise or bury the young growths. They need careful watering at first, as too much water is apt to rot the young growths. I give just enough to keep the sphagnum moss alive. When they have become well established they will take plenty of water, providing the drainage is all right, and when growing weak manure water once a week is a great help to them.

When the bulbs are full grown they begin to lose their leaves and the flower spikes make their appearance. Water must now be given more sparingly and when the flowers begin to open be withheld altogether and the house kept as dry as possible.

After the flowers are cut I shake out the bulbs, put them in boxes and place them on a shelf in the same house, being careful to see that they are out of the way of drip, where during the winter the thermometer does not go below 55°.

I will now pass on to the odontoglossum. There are over 100 species of this popular orchid and many of them are very beautiful. Odontoglossum crispum (Alexandræ) and its varieties are probably the most useful. The flower scape is arched, sometimes branched, strong plants producing as many as 20 flowers on a scape.

Odontoglossums require a cool house and a moist atmosphere all the year round. They thrive best in pots, in fibrous peat, chopped sphagnum moss and white sand.

The cypripedium comes next. To my way of thinking many of the species are more curious than beautiful. C. caudatum is probably the most curious. Most of the cypripedium flowers lack that brilliancy of color that makes the cattleya so attractive. Still a great many are useful as cut flowers and they last in perfection several weeks. They are found in all parts of the world. Some come from Canada and Siberia while others come from India and South America. The treatment is varied and I shall leave their culture for some one else to handle.

I have tried to tell you something about the culture of several members of the orchid family, but their usefulness as cut flowers is what I wish particularly to call your attention. In my opinion no flower is so suitable for dinner table decoration as some of the orchids, not even the rose, the "Queen of flowers." For a center piece a basket filled with maidenhair fern among which a dozen cattleya or lælia flowers have been carelessly placed, is simple, effective and very beautiful, the graceful ferns showing off to advantage the gorgeous and elegant orchid flowers. In making up orchid flowers should never be crowded. I like to see them placed so as to show plenty of fern between the flowers, the colors being so rich it requires considerable green to tone down the whole.

It is hard to find anything among flowers more beautiful than a vase filled with odontoglossums, such as crispum, Pescatorei and cirrhosum, with sprays of Asparagus plumosus nanus. The feathery asparagus goes well with the lovely orchid flowers. Orchids can be used in almost every case where cut flowers are called for.

I have heard some people say that orchids look like a lot of old dried sticks, and some of them are rather hard looking citizens during the resting season, but in my opinion no more so than a bed of hybrid perpetual roses during nine months out of the twelve.

The orchids I have named are now no more expensive than many other plants. Prices are really very reasonable except for very scarce species or for hybrids. A year and a half ago I bought a plant of Cattleya Percivaliana for $10.50 and in January last it bore 24 flowers worth 50 cents each at wholesale, or $12 for the 24 flowers. At the same time I bought a Cattleya Mossiæ for $9.50. Last summer it also bore 24 flowers well worth 50 cents each. Each of these plants took up about 18 square inches of bench room, but as they were suspended from the roof above the walk they really take no bench space at all and they do not interfere with the plants on the benches. Any one who has a house devoted to stove plants such as crotons and draceenas can also have a few orchids as some of them do well in such a house.

Some of the orchids have no fragrance while others emit very sweet odors. Cattleya Trianæ Schroederæ has a fragrance exactly like that of the hawthorne. Another variety of C. Trianæ has the same fragrance as the genista. Odontoglossum citrosmum should be lemon scented but a plant that bloomed with me filled the whole house with a strong perfume of tulips.

Cypripedium Spicerianum.

This is a charming orchid and when well grown is always a source of interest when in bloom on account of its pleasing character and durability. Not many years since it was exceedingly valuable, but fortunately its habitat has been rediscovered and it has now found a home in many collections. At Pittsfield, Mass., in Col. Cutting's collection there is a fine show of well grown specimen plants, bearing a profusion of large bold blossoms. Mr. Meredith, the gardener, discards the use of peat, giving them pure sphagnum moss only and with ample drainage. The health and vigor of the plants leave nothing to be desired, and they appear to thoroughly enjoy this treatment. Among other plants in bloom were several fine examples of C. cardinale, a well grown specimen of C. leucorhodum, C. vexillarium, C. grande, a superb form of C. Leeanum, with a dark shining pouch and a well grown specimen of C. Chantinii. The whole formed a very interesting group and were well worthy of a visit.

A. DIMMOCK.

Dion Spinulosum.

Dion spinulosum, illustrated in this issue, so named by Mr. Wm. T. Thistleton Dyer, Director of the Botanic Gardens, Kew, is a cycad from Mexico. Some years ago a number of these plants were sent to Elliott's auction rooms. No bid being obtained for them they were, after fair warning, sold for a nominal price to Wm. Wilson, Astoria, where we found them.

The FLORIST, we think, can claim the credit of first illustrating this beautiful cycad.

As to culture, it can be grown well in a small pot in a cool house. *Never overpot it.* We think it destined to be very popular as a decorative plant. We obtained seeds from Victor Fournier, City of Mexico, two years ago and the plants are now two feet high. This plant is not mentioned in Nicholson's "Dictionary of Gardening." Without being so informed we think the first plants at Kew of D. Spinulosum were those sent from the Botanic Garden at Washington. A plant about the size of the one illustrated was in Mr. Tilden's conservatory just before his death. If we mistake not we saw the same plant at Pitcher & Manda's a few weeks ago.

Your reproduction of photos in the FLORIST is wonderful. Such object lessons! Well, it is a pity they should be confined to the trade! The rich green color is all that is wanting to make the picture complete.

WM. R. SMITH.

U. S. Botanic Garden, Washington, D. C.

Long Island Notes.

BY WM. FALCONER.

RUELLIA MACRANTHA.—From cuttings last spring and grown on in pots till they now are in 6-inch ones, they are nice plants 18 inches high and in full bloom in the carnation house. Cut back one-year olds, last spring, planted out in summer and lifted and potted in early fall are large bushy plants, but not yet in bloom.

VARIEGATED CAREX.—A small narrow leaved white variegated evergreen carex came to us from North Easton last summer, and it promises to be a very desirable little gem for greenhouse decoration. As an edging as we use isolepis, for wall work, ferneries or studding with mosses and small ferns for table work, it suggests a promising future.

DOUBLE FLOWERED CYCLAMENS.—At Mr. Brown's at Flatbush I saw some very handsome ones the other day. In habit, vigor and all other ways except in the doubling of their flowers the plants are the same as the single flowered ones of the giganteum type. The doubling gives the blossoms a bunch or bouquet appearance, but in my opinion it does not add any refinement or beauty to the variety.

TORENIA FOURNIERI is an annual little plant of much beauty, and now common in seed lists. As an outdoor plant it blooms continuously all summer long. Mr. Gus Bennett has a lot of it now in bloom in the greenhouses planted along the edges of the rose benches to give the house a dressy appearance. He also has it in bloom in pots, and it is a charming little plant in either case. The white flowering variety White Wings is as easy to grow and bloom as is the blue one.

LIBONIA PENRHOSIENSIS makes a beautiful little pot plant; just now it is a ball of red and yellow flowers. For cut flowers, however, it is worthless as the blossoms will so quick.

SERICOGRAPHIS (JACOBINIA) GHIESBREGHTIANA, in much the same line as the libonia, has scarlet flowers, and is a taller and prettier plant, though not so bushy. Now in full beauty.



DION SPINULOSUM.

LEPTOSYNE MARITIMA, with long-stemmed, cosmos-like, golden yellow flowers, is now at its gayest, and gives us a very desirable color at this time of year. Treat it as an annual.

CYPRIPEDIUM SPICERIANUM.—Given plenty root room and moderately warm quarters it seems to grow and bloom as freely as the indispensable C. insigne; only I get the largest crop of flowers from the last named when it is grown in a somewhat cool temperature, as a carnation house.

THUNBERGIA LAURIFOLIA.—Beautiful but annoying. It now is Christmas and this vine is drooping all over with clusters of showy bluish flowers, but they are only beautiful to look at growing on the vine, cut them and they wilt almost right away.

SMILAX in bloom is not only doubly beautiful in itself but exquisitely fragrant. If the fern-leaved asparagus be the more fashionable green vine, surely we have room also for smilax in bloom.

CHRISTMAS ROSES (Helleborus niger maximus).—When, early Christmas morning, I went with my big basket to the cold frame in which these were in bloom, I could not help thinking how many florists there are in the country who would be glad to have such a mass of snowy blossoms to pluck from. And these same plants have lived along, increased in size and bloomed every winter for years.

APONOGETON DISTACHYON, a sweet scented, white flowering, water plant from the Cape of Good Hope, is easy to grow, winter blooming and a very useful plant to have.

HIGHLY COLORED CROTONS.—I saw some exceptionally fine ones the other day. They had been grown in summer in a house glazed with ground glass and which is used during the winter season for plants in bloom. Here while the crotons were protected from direct sunshine they had such good light that their coloring was brought out in its best form and without scorching the leaves at all. Towards the end of the fall they were removed from this house to make room for chrysanthemums, to duller and warmer quarters.

Violets.

I think that the violet disease is entirely due to the plants being grown too delicate and being planted out too late.

My method of growing violets is as follows:

During September or October the runners are pricked into boxes where they soon strike. After they are well rooted they are potted into 2-inch pots and placed in a cold frame where they remain till spring. During the winter they are given abundant ventilation whenever the weather permits and an occasional syringing on bright days. The latter part of April they are planted out, one foot apart, and kept moist during dry weather. They are placed under cover the last week of September, at not more than 10 inches from the glass, being lifted with a good big ball of earth, so as to do very little damage to the roots.

Violets do not like heat. All they want is the frost kept out of the house or frame.

The above described treatment has always brought success with me.

Buffalo, N. Y. VALENTINE HAMANN.

Reliability.

In one of his recent speeches Mr. Rob't Craig dwelt at some length on the necessity of florists living up to their contracts. He very truly said that our business was a most uncertain one and that we should be extremely cautious in making promises. This speech was recalled to my mind in a funny way recently.

Early in July I ordered three packages of Sweet Peas for winter flowering from one of our leading seed firms. In due time two packages, Miss Blanche Ferry and Snow Flake, arrived and with them a notice that the other package would be sent as soon as possible. The seeds sprouted and grew finely and I thought no more of the promised package of Princess Beatrice. Imagine my surprise when the mail brought the belated Princess, four months after her friends.

Mr. Craig can now hold the seedsman up as a shining example to light the path of his brother florist.

JOHN WELSH YOUNG.

Germantown, Pa.

BARBARY THORN (LYCIUM BARBARUM).—A. L. S., New Orleans, sends us sprays of the bright red fruit of this vine-shrub and remarks: "The bush, or vine rather, is beautiful now with its vivid red seed balls, although it has suffered two severe freezes. The flowers are bluish, but fade into light tan-tinted blue and, except at a short period each season, when the vine becomes shorn of its foliage, the whole plant elicits the admiration of all beholders, though few appear to be familiar with it." It is an old inmate of gardens and hardy in the north as well as in the south.

BLUE BLOODED GLADIOLUS.—Mr. Wm. Ferguson, Groveland, Mass., writes that he is making gratifying progress toward the production of a blue gladiolus and adds: "In all my seedlings which contain blue blood the corms are invariably white in color. I have wondered if other growers have the same results."



Fungus on Carnations.

I notice Mr. P. J. Bauer, Cleveland, Ohio, asks if any reader of the FLORIST can suggest a remedy for destroying a fungus infesting his carnations. Shortly after housing my carnations I found about two yards square on a table of Silver Spray infested with brown fungoid spots; in its first state it appeared scale-like, a thin clean elliptic film rupturing irregularly and exposing a mass of shining brown spore-like bodies soon scattered in numbers round the parent mass on the leaves, as it became older or dead leaving a darker colored scab.

I had it syringed several times with a solution of sulpho-tobacco soap which has killed it and prevented it from spreading. If it is the same as Mr. Bauer has had he might try the sulpho-tobacco rather than throw out his plants. I think it strange that it is confined to Silver Spray. I found it on some plants of that sort by chance mixed with Lamborn and others. The wash did no harm except to destroy the glaucous hue on the leaves. JOHN SPALDING.

In answer to Mr. Bauer's communication on page 412, regarding fungus on pinks, would advise him to give his pipes a good coating of sulphur. We were troubled here with a fungus on Silver Spray, but since using above remedy have had no trouble. G.

The fungus on carnations, to which your Cleveland correspondent refers, is a *rust* which has long been known in Europe, but only made its appearance in this country about a year ago, and first attracted serious attention shortly after carnations were housed the present season. It has been brought across the Atlantic by some importer of carnations, and unwittingly disseminated. Its introduction into America is a great misfortune for the growers of this popular flower, as it is likely to materially reduce the profits of the business.

It may be recognized by brown spots on the leaves and stems, a sixteenth to a quarter inch long, filled with a dark loose powder, which readily comes off on the fingers. After it has appeared in a greenhouse there is little hope of controlling it to any marked extent during that season. It is worth while to experiment with some of the copper salts, liver of sulphur, or other fungicides, to see if occasional spraying of the plants will not keep it from spreading, but the results can not be predicted, as no such trials have yet been made.

The most promising thing to do is to make strenuous efforts to be rid of it during the summer. Take great care in selecting healthy cuttings for the succeeding crop, and destroy all plants which show any signs of disease during the summer. When placed out of doors select ground as far removed from that previously used for carnations as possible. Clean out the benches thoroughly and fumigate the house with burning sulphur. Refill with fresh earth, that must be free from disease germs.

By pursuing a course like this it will be possible to entirely eradicate the disease from an establishment. J. C. ARTHUR.
Purdue Exper. Station, Lafayette, Ind.

I think I am acquainted with the carnation disease described by Mr. P. J. Bauer, and it has been described and illustrated in the AM. FLORIST—though I fail to find it. It is very destructive to the plants sometimes, coming on in the open ground during the last of August and first of September when cool nights and heavy dews prevail.

This year the only varieties which were injured to any extent with me were Fred Creighton and Daybreak.

By carefully removing the affected leaves I have saved the plants, as it does not seem to affect the roots, though the first crop of flowers is much diminished. The usual remedies for mildew do not seem to affect it.

Prevention is the best thing. This is accomplished by keeping the foliage dry and a uniform temperature suited to the carnation, that is 50° at night and 70° during sunshine.

I once syringed my carnations in the morning of what promised to be a fair day in October. In the afternoon, before the plants were dry, a cold northeast storm set in and in one day the fungus made such havoc as I never wish to see again. Since then I am very sparing in the use of water on the foliage during the late fall and early winter. After steady firing begins the disease disappears and towards spring syringing is useful and necessary if red spider appears.

I think it would be a very good work for the state experiment stations to study the various forms of fungi and make sure the conditions which cause their growth and discover if possible what will not only destroy but prevent the growth.
S. F.

My carnations have been affected by the same fungus as that described by Mr. Bauer. One morning I noticed it on one plant and by the next morning half a dozen were attacked. Then I treated the affected plants and those around them with Hammond's Grape Dust, keeping the plants rather dry and especially keeping any moisture from the tops, and the fungus has entirely disappeared.
Cleveland, O. N. SOETGA.

Chester County Carnation Society.

The Chester County Carnation Society met at their headquarters Saturday p. m. The heavy storm of the preceding 24 hours combined with the ravages of La Grippe prevented several of the more distant members from attending.

It being the annual meeting election of officers was in order and the following were elected: Pres., Joshua H. Ladley, Kennett Square, Pa.; Vice-Pres., Edward Swayne, Kennett Square; Sec'y, Warren R. Shelmire, Avondale; Treas., J. J. Styer, Concordville.

Mr. Wm. Swayne, being absent on account of sickness, sent in his paper on "Propagation of Plants." He favored for best results low temperature, 40° at night and 10° higher in day for 3 or 4 weeks, then 10° higher until rooted, which will be in 3 or 4 weeks longer. Uses coarse limestone sand, waters well when cuttings are laid and slightly after.

Edward Swayne reported much better success this season with road sand than with limestone sand.

C. J. Pennock had used road sand for 2 years and had rooted on an average over 90%; an advantage seemed to be that cuttings rooted in road sand can stand longer than in sharp sand.

Mr. Ladley reported six finely rooted plants from C. W. Ward struck between temperatures of 36° and 42°.

"Marketing of Flowers" was discussed at some length. The secretary presented some figures and from reports received he estimated 65,500 blooms cut Christmas week, a reduction of at least 40% from the cut of the same week last year.

Mr. Barnard gave an account of the system practiced by the Niagara Grape Co. in sale of their goods, by which the product is concentrated for distribution to the consumers.

A committee of 3 was appointed to investigate the market system and report thereon.

Several seedlings were exhibited, notably Golden Triumph, from R. T. Lombard; Puritan, from Wood Bros.; Aurora, Edward Swayne; Pearl, C. J. Pennock; and a number unnamed from Jahn Bros. Mr. Thompson showed a new pink, very fine, with good fragrance.

Golden Triumph and Puritan, being new to most of the members, attracted much attention, and notwithstanding the flowers had been two days en route they were remarkably fresh.

The president made a few earnest remarks upon the loss to us as individuals and florists in the death of our fellow worker, Chas. T. Starr.

The meeting adjourned to the first Saturday in February. C. J. P.

Carnation Names.

Ida McKinley is sent by Messrs. Messmore & Turner; it is a pleasing shade of pink, large, very fragrant and a free bloomer.

Helen Galvin, similar to Wilder, but a freer bloomer and larger flower; Hesper, a bright yellow with scarlet stains scarcely perceptible. The last two by Lothrop Wight.

Grace Darling, a beautiful shade of pink, now being sent out by the originators, Chambers Bros.

S. Lenton sends the following: Lavina, large very double scarlet; Ramona, dark red striped white; Sunflower, yellow striped red; Buster, dark red very large; Piru, fragrant long stemmed white; Adelaide, satiny pink, large and double; Goldsmith, rich yellow, edges striped with red; Marvel, dark pink shaded with cream; Ideal, white, edges striped with red; Jennie Parker, dark pink changing to pale pink; Majesty, rich dark pink; Wide-Awake, dark red; Evangeline, white striped with red; Paradise, bright red, very fragrant; Oona, dark rich pink; White-Cap, pure white, large and double; Avalanche, dark pink; Romance, bright red very large.

Any one knowing the name of the originator and the parentage of the older sorts will confer a favor by sending them in, not for publication, but to have them properly entered in registry book.
Lancaster, Pa. ALBERT M. HERR.

Golden Triumph Carnation.

This new yellow carnation was raised in 1888 by John H. Pond, of Foxboro, Mass., and is to be sent out next spring by R. T. Lombard, Wayland, Mass. As the picture indicates the flower is full double, with stiff stems and of large size. If grown in a low temperature and during dark cloudy weather it shows a few faint pink stripes, which are but slightly noticeable. Mr. Pond says it will pro-



CARNATION GOLDEN TRIUMPH.

duce four flowers where Buttercup produces one, and that it is the only yellow he has ever grown for the wholesale market at a profit.

Some Queries.

ED. AM. FLORIST:—Will you please give me the benefit of others' experience as to the following points in carnation culture, etc.:

1. In setting boilers and making connections with chimneys, what is the best way of guarding against fire? Boiler brick set.
2. In chimneys will it pay to use two thicknesses of brick.
3. In erecting house for carnations, for blooms only, is the ¾ span, southern exposure, the best?
4. Which are the better, solid beds or benches?
5. If benches are used what is the best depth of soil—good rich loam being meant, not sandy or clayey?
6. Best average distance apart to plant?
7. Will cuttings strike best in bed with crate bottom heat?
8. What is best temperature if bottom heat be used?
9. In taking cuttings for own use what portion of plant should they be taken from to give best results? E. G. B.

New York.

New Year's day in New York is a very different occasion from what it was a few years ago. Its observance has been falling off steadily and the florists no longer work all night in preparation for the event. Quite a brisk trade in boxes of cut flowers and in presentation baskets is still had so that it is better than an ordinary midwinter day, but the demand is nothing in comparison with Christmas. The retail florists probably make more profit out of the present conditions than they did during the old rushing times, when, as Alex McConnell says, they acted as a kind of go-between for the customer and the grower, merely transferring the money from one to the other with little or nothing to recompense them for their hard labor, the prices they were obliged to pay being so high that there was no chance for a margin in retailing. Last year the wholesalers were badly overstocked with flowers and had to resort to every device to unload. This year they fared better and seem to be well satisfied with results.

The demand was not excessive and indeed was not appreciably increased until New Years' Eve, but the weather had favored them so that the quantity of flowers received was very limited and so they managed to clean up nicely without any great effort and at good figures. The retailers had been very wary and bought little or nothing in advance, prefering that the risk of carrying stuff should rest with the wholesalers, but by Thursday night they began to have courage and on Friday morning they were all ready to buy pretty liberally.

American Beauties, which had been somewhat overstocked early in the week, went off at a lively rate and there were not enough first class ones to go round. When you observe a man with a long bundle of nursery trees done up in brown paper under his arm in New York nowadays, it is not nursery trees, but simply a dozen first class American Beauties. Mermets were very poor in color, the only bright spot among them being an occasional Waban which had got mixed in unawares and whose bright color only served to emphasize the dullness of its neighbors. Yellow roses were scarce, so Perles brought good prices.

White roses were plenty enough, but not so badly overstocked as at Christmas. Cusins were excellent, also Wattevilles, and were used very generally for basket work where in combination with Roman hyacinths, white lilacs and gorgeous cattleyas they show up with beautiful effect. For dark roses there were a few Jacqs and plenty of Meteors. The Meteors sold well, but some of them were black as midnight and sadly belied their name. Bulbous stuff sold fairly well. There was quite a good stock of yellow narcissus, both single and double, the latter being rather stunted and unattractive in appearance, however. Mignonette was in plentiful supply, and of violets there were just about enough to go round. Scallen had a big stock of single violets in his window which seemed to be going "like hot cakes" with his customers, the prices being much lower than the double variety, and the fragrance even better. Carnations sold readily at $2.50 to $3, the Grace Wilder leading in quality and demand. On Friday morning everything sold at sight and it did not take the wholesalers long to clean out their stock, lock their doors and adjourn to their New Years' dinner. Most of the retail florists kept open till the middle of the afternoon. The display of baskets at Thorley's was superb and would have made a grand exhibition in themselves. Fleischman decorated the sidewalk in front of his establishment with a quantity

of baskets all ready mossed and in shape for immediate filling with flowers, as a possible bait for customers, and a pile of boxes tied up and labelled, presumably full of flowers, a somewhat questionable advertisement, as, provided the boxes were bona fide orders, the effect upon customers in this aristocratic neighborhood of exposing their goods to the public gaze on the sidewalk would be most annoying. Siebrecht & Wadley were very busy. Their window was resplendent with orchids and lilies, some auratum lilies showing up with gorgeous effect. Hodgson and McConnell on opposite sides of 5th avenue were both as busy as they could be, the main trade being for boxes of loose cut flowers. A basket that went out from McConnell's made of American Beauty roses, lilacs, cattleyas and Hamburg grapes was a stunner.

On the day following New Years flowers were scarce everywhere. Even at the 34th street ferry, whose former glory has well nigh departed and which has come almost into undisputed possession of the "Greeks" (Johnnie Weir, of Brooklyn, and Dickerman, of New Haven, being the only saving graces left), there was quite a sprinkling of aristocratic buyers. Johnnie Weir created a sensation by getting into a very loud Mackintosh and pair of swell gloves and posing as a dude with much success, and the fact that there were no bargains floating round did not appear to worry him in the least.

Siebrecht & Wadley's orchid houses at New Rochelle are looking beautiful just now. Cattleyas are in great variety, one form of C. Percivaliana being especially rich. Calanthes, lælias and Jycastes are also in full display.

Frederick Mau, the orchid importer, is dangerously ill with pneumonia and a complication of other diseases and his friends are much alarmed.

The annual supper of the N. Y. Florists' Club will take place at the Arena, 39 and 41 West 31st street, at 9 p. m. Monday, January 11.

Philadelphia.

The first day of January was the growers' holiday. There was a genuine demand and nothing, or next to nothing, to supply it with. We don't remember having seen stuff so scarce in the past five years. Everything in the shape of a flower was picked up at once. Nearly all the crops were off and very few growers brought in more than a third of their usual cut, and what there was of it was so close and small as to be almost unsalable.

It is astonishing to see the kind of flowers people will buy and carry away on a holiday, as after having tried in vain in some half dozen stores they finally secure a few blossoms which should have come in with the next day's shipment, and go away satisfied and glad to have gotten even these, which any other day would have been declined at any price.

Carnations have been more in demand and have brought higher prices than any previous season, $3 to $4 a hundred (and some of them not very good at that) has been the market price; they surely ought to pay at these prices.

While roses were very scarce they did not command the price of the week before. Perles, Gontiers, Sunsets, Niphetos brought $8; La France, Mermets, Brides, $12 to $15; Beauties $50 for the best, but they were not up to the mark; there were no hybrids worth talking about.

Tulips are in and sell at from $3 to $5. Freesia has made its appearance, R. Atkinson, of Edgewater Park, having the first; it brought $2. Hyacinths and paper white brought $3 to $4 and valley $6. Double violets are becoming more plenty and sell for $1.50 a hundred.

The next meeting of the Florists' Club promises to be quite an interesting affair. Some 12 candidates are to be elected and Mr. Griggs' paper will no doubt be listened to with great attention, as there is always sure to be considerable discussion when business methods are being considered.

The club room was almost entirely deserted during the holidays, as there was no time for ten pins, but now that the rush is over there will no doubt be matches and contests galore.

The club room committee have adopted the following plan for deciding medal winners: The members are to be divided into three classes, those who frequently make 150 and over for the first class, 125 and over for the second class and 100 and over for the third class. Each class will roll three games once a month and a medal or other prize will be given to the winner every three months, at the end of which time a new contest will be commenced.

The record for three games has been broken by Lincoln Brown, who made 570 pins, an average of 190 to a game.

Robert Craig is still confined to his bed. He gains strength very slowly. His physicians say that the worst is over and quiet and rest will bring him about all right in a short time.

Chicago.

The New Year's trade this year was fully up to expectations. None of the dealers prepared for a great rush, as the experience of the last half dozen years has shown that the demand for flowers on this day has steadily decreased. A number of the retail men report an increase over last year's sales and on the whole business has been quite satisfactory.

There has been a great scarcity of stock ever since Christmas and prices were held firmly at figures only a shade lower than at Christmas.

The stock of roses has not improved in quantity or quality, although Mermets showed an improvement in color. Brides and Mermets were held by the commission men at from $14 to $16. Perles were almost an unknown quantity—stock was very small and very poor, but the price commanded was from $10 to $12. Gontiers were a little more plentiful, but still not enough to go round, at $6 to $8 per hundred. Beauties were held at from $50 to $60, with a good demand and limited supply. Carnations were more scarce than for Christmas. All the growers had cut everything for Christmas that was fit to market, consequently the market was short on most varieties. White—both long and short—are particularly scarce and the dealers have experienced great trouble to supply their orders, as the demand for funeral work has been heavy.

Violets are still extremely scarce and are consequently held at very high prices. In bulb stuff the market was also short. Romans, which in former season had been a perfect drug, were in good demand and every flower was sold at good prices. In Valley the quality has not improved. Most of the stuff that appears on the market has not a single leaf and takes but poorly.

The first hybrids, Magna Charta, came in for New Years and were of very good quality. The stock of Harrisiis was quite large, but there was no trouble in disposing of every flower.

The wholesale men report an extraordinary demand for shipping orders. From Dec. 20 until the present date fully one-third of the orders could not be filled.

Boston.

New Years' day receives but little attention in Boston as a holiday, "swearing off" being the principal use made of it. A record of this feature of the celebration, how long the good resolutions lasted, etc. would be "mighty interestin' readin'," but would hardly come within the scope of horticultural news, so it will be passed over in silence. The wholesalers who depend in a measure upon the shipping trade, however, always get a little spurt of business from those localities where New Years is more generally observed. This is especially true when, as is the case this time, the weather has taken a cold and stormy turn, and the stock of cut flowers throughout the country is shortened up. Good roses are as scarce as they were for Christmas. Even poor ones are scarce this week, which is a rare event nowadays.

The Mermets in market are terribly off in color, and the Waban is beginning to assert itself. Whatever faults the Waban may have, it is at least guiltless on the point of color in bad weather.

Carnations are all right in quality and hold well up still to Christmas prices. Violets are somewhat lower in shipping price, but are not plentiful enough to break in price as they did at Christmas. Harrisii lilies are in great and unexpected demand. They have been cut off clean everywhere in this vicinity and but few are obtainable. Lily of the valley is extra in quality with fair demand. Narcissus, paper white and single trumpet, are selling better than last week, and the same is true of Roman hyacinths. Tulips, the little scarlet Due van Thol variety, with stubs of stems two to three inches long and slinky, wizened petals have been in the market for a fortnight, but nobody wants them. If it is an impossibility to force a tulip for the holidays that looks like a tulip it would be wiser not to attempt it at all.

There was a very interesting and suggestive exhibition at Horticultural Hall on December 26-29, consisting of dried and mounted specimens of flowers and ferns collected and prepared by school children.

All of the herbariums were well done and deserving of great praise and some of them would have done credit to a professional botanist. No show is complete without a monkey, it is said, and the monkey in this case was the big bulletin at the entrance to Horticultural Hall, which read thus: "Window Gardening Committee's Free Exhibition of Herbariums *prepaired* by Pupils of the Public Schools." And this in Boston!

The list of exhibitions and schedule of prizes offered by the Mass. Horticultural Society for 1892 is just out. The amount appropriated for premiums for plants and flowers for the year is $4,250. A number of changes and additions have been made as compared with last year's schedule, notably in connection with the chrysanthemum show, which seem to be steps in the right direction. Much regret is expressed at the resignation of Mr. P. Norton as chairman of the Committee of Arrangements, and it is sincerely hoped that he can see his way clear to a withdrawal of the resignation, for there is no one who can fill the position as he does.

The seed and agricultural implement houses, by mutual agreement, closed their places of business from Thursday night, December 24, until Monday morning, December 28.

On the sick list: Charlie Evans, of Watertown, and D. L. Taylor, of Melrose.

Buffalo.

Holiday trade came and went in rather an uneventful manner. A good steady trade was reported from more quarters and less of the hurry and bustle that goes with numerous large orders and decorations, such being in the minority here this season.

Rather a larger lot of some kinds of flowers than usual was left in the hands of some of the retailers on Christmas, notably white carnations and some roses. Could white carnations have been transformed into red, Perle roses changed to pink, what an agreeable transformation it would have been! The week following Christmas day, and with the close of the 31st, saw all the stocks of all kinds of blooms well disposed of and everyone generally in good spirits.

The most unwintry weather known has prevailed largely. In order to make matters lively in winter snow and cold is needed in this latitude rather than a California or Florida atmosphere and temperature.

G. Gabrielson, formerly of New York, is in the employ of J. H. Rebstock, who is rapidly annexing each approachable district in the city to his territory. He now has under his domain four distinct places of retail business.

The club took a recess perforce on the 22d ult. No quorum present, so no New Year welcoming formalities were arranged.

Wm. Scott's windows now are a glow of brilliant tulip flowers. His favorite style of displaying them is as flowered in the flats, these being tipped forward and arranged in tiers.

W. J. Palmer reports a specially abundant cut of Wilders during the month of December in his houses at Lancaster. Lilium Harrisii and Narcissus are in full supply with him now.

Violets have done only moderately well. No one has been heard to boast so far.

L. B. D.

The weather of New Years and preceding few days was a great improvement over Christmas weather, which helps to account for the unusual good sales of New Years. A few florists who did not sell out clean at Christmas laid in rather a light stock for New Years, and the demand being better than for several years past every flower and salable plant was sold.

W. J. Palmer & Son had a fine display of orchid blooms in their window and Scott had a few fine blooms of his own growing. The demand for orchids in Buffalo is very limited as yet, but we hope a persistent display of them will educate the flower buying public and create a demand.

Many good potted plants were sold for Christmas and New Years presents. Azaleas, poinsettias, begonias, primulas, Roman hyacinths and Paper White (3 or 4 in a lot) all sold well and there was quite a demand for good palms and dracænas.

There was little bulbous stuff forced except Romans and Paper White and they all sold. Most all the holly coming to our city was of A 1 quality and the demand was equal to the supply.

Mr. Long was to the front as usual with a most attractive display in his window. Dan has the faculty (or art) of always having a beautiful window. Rebstock reports that he is more than satisfied with the holiday trade in all departments. Mr. C. F. Christensen, whose houses are on Delaware avenue (a good way out), has opened a store on Allen street. This should be a good move for Mr. C., as his store is in the heart of a fine residence territory. Christensen has had the good sense lately to tell the boys he is coming into the Florists' Club with all his might. It is to be hoped his example will be followed by a few others.

Frank Faehr has been engaged as florist at the greenhouses of the State Insane Asylum; this should suit Frank, and John Jones has taken his place at Mrs. D. Newlands' Forest Lawn greenhouses.

Mr. Mepsted has suffered trouble this past two weeks with gout in his right foot. However he pluckily held out during the holiday rush, much to the benefit of his employer. Gout is brought on—well by the usual cause—and partly by the pressure of the big toe on the slippery bowling alley.

G. S.

Cincinnati.

The whirlwind is past and once more the florists of this city are settling down to substantial business. They have had an elegant business and are all feeling good. The Christmas trade was handled with a great deal more satisfaction than the New Years' trade. On Wednesday the wholesale houses could not begin to fill their orders and the growers were only sorry that it was not in their power to manufacture a larger cut.

One thing the wholesale dealer does not have to contend with in this city is the fact of growers holding back their stock and salting for higher prices. They have learned by sad experience that this kind of work won't do.

The evergreen and holly trade was an exception this season, everything being sold and at good prices!

At the last meeting of the Cincinnati Florists' Society they settled beyond a doubt the question of holding a chrysanthemum show this fall and we are now preparing the premium list, which will be ready in a short time. On Jan. 9, '92, this society holds its annual meeting for the election of officers.

During the next three months the orchid will claim prominence in this market and the prospects are very flattering for a plentiful supply. There will also be plenty of good Am. Beauty roses as well as all others from now on; carnations will also be equal to the demand, and taking all in all the trade so far has been all that could be expected.

E. G. GILLETT.

Toronto.

All the florists I have spoken to seem to be well satisfied with the business done at Christmas time and up to the end of the year.

The retail price of roses was slightly lower than last year but all that were to be had met with a ready sale. Carnations were plentiful and the demand good; chrysanthemum blooms still showed up pretty well. I saw a really good bloom of Kioto to-day. Manton Bros. grow a single chrysanthemum, dark old gold outside, lighter in the center, they say it sells on sight; it is a very late bloomer and was raised from seed here by a gardener who did not think anything of it and would have thrown it out but Tom with his far-seeing eye took it in and is being rewarded now.

Plants sold briskly, particularly the pink flowered Begonia carminata, or incarnata, or carnata (which is it?) little 25 or 30 cent plants went off like hot cakes.

I bought a plant labeled Passiflora cardinalis the other day. It had evidently been imported from England, most probably from Low's. I can see no description of it in Nicholson's dictionary. Does Mr. Falconer or any one else know anything about it?

E.

St. Louis.

We are having some winter at last, for on the first day of the new year came a snow storm worthy of the name. Trade, both wholesale and retail, is still very brisk. The cry of "sold out" has been an oft repeated one.

Palms in variety and flowering plants of Cyclamen persicum have sold well. Messrs. Jordan have a very fine show of roses, their new house 36x315 feet being especially good. The Waban has not met with very good success here. Messrs. Jordan are proving that Cyclamen persicum can be successfully grown in this climate from seed.

Why is it that Linum flavum is not grown more during the winter months? Here is an old favorite with its bright yellow flowers, in blossom from beginning of November until March, easy to grow and propagate, and still very few florists seem to keep it. Mr. Michel has a ready sale for it and recommends a cool house.

The following points in regard to forcing lily of the valley were gleaned at Messrs. Michel's establishment, where "valleys" are grown to perfection: Force under sash in greenhouse, thus using double glass; cover with one inch sphagnum until shoots show through, and then uncover; keep sphagnum moist at all times; syringe every other day with lukewarm water and keep temperature from 90° to 95° steady. The frames of course can be built over part of the regular heating apparatus of the house.

The new heating plant of Messrs. Young has been inspected and insured.

J. W. D.

Montreal.

From reports so far holiday trade was fully up to last year. Very little call for "made up" work, the run being on loose flowers, such as roses, carnations and violets being in chief demand.

Plants sold well and owing to the very mild weather were delivered with less trouble than is usually the case with us. There is not the demand for bouvardia, narcissus and Romans there used to be, the taste being for better class flowers.

The 'mums though fairly good for the season would not sell so long as there were any roses or carnations to be had. Taken all round Christmas trade was good and the "grumbler" has yet to be met, though probably he is around.

J. B.

Newport, R. I.

The Newport Horticultural Society held an important meeting on December 23. The report of the treasurer being read it was found that after all bills were paid there was a balance in the treasury of $250 for a basis to work on for the coming year. The advisability of a straw-

berry and rose show to be held in the spring was freely discussed and it was conceded by all in favor of such a show.

After the general routine of business the Hon. John P. Sanborn in a very happy manner presented to the President, Col. A. K. McMahon, in behalf of the members of the society, an elegant gold watch and chain. The Colonel was completely taken by surprise, but nevertheless responded in fitting words.

At the close of the meeting the society marched in a body to a restaurant where there was a supper awaiting them. After supper speeches were made by L. D. Davis, Esq., Hon. John P. Sanborn, Col. A. K. McMahon and other members of the society.

The party spent a most enjoyable evening. Such gatherings have a tendency to bind the members of an organization closer together. J. J. BUTLER, Sec'y.

News Notes.

DENVER, COLO.—The annual meeting of the State Bureau of Horticulture will be held in this city January 14.

OWATONNA, MINN.—The 25th meeting of the Minnesota State Hort. Society will be held in this city Jan. 19 to 22.

DES MOINES, IA.—The annual meeting of the Iowa State Hort. Society will be held here January 19, 20 and 21.

EAGLE GROVE, IOWA.—The seventh annual meeting of the Northern Iowa Hort. Society was held here December 15 to 17.

FRANKFORD, PHILA.—Fowler Bros. have started in business with two houses 48x10 each, at 5031 to 5035 Charles street.

PORTLAND, OREGON.—The seventh annual meeting of the Oregon State Hort. Society will be held in this city Jan. 12 and 13.

KALAMAZOO, MICH.—Mr. S. S. Cobb died December 30 of pneumonia, aged 72 years. He was for 20 years superintendent of Mt. Home Cemetery.

SING SING, N. Y.—Christmas trade was never before so poor as this season. The stormy weather may have been partly the cause, but it seems to me as if our Christmas trade is going to pot very rapidly.

YUBA CITY, CAL.—A call has been issued by the Sutter County Hort. Society for a meeting of delegates from all counties of the state north of San Francisco on Feb. 10 to consider the propriety of organizing a World's Fair association for northern California.

GREAT BARRINGTON, MASS.—F. T. Dellert of this town was recently burnt out, losing all his memoranda of business as well as catalogues and circulars received from dealers. He is anxious to receive a new supply and our readers will doubtless accommodate him.

BUTTE, MONT.—The first floral establishment in this city of 35,000 has been built, about 1½ miles from the center of the city, by Mrs. D. J. Knox. She has put up about 10,000 feet of glass, probably the largest range of glass between Minneapolis and Portland. She has also opened a floral store at 202 Main street to be conducted in connection with the greenhouses.

EAST MORICHES, N. Y.—The Cottage Garden Greenhouses, Mr. C. W. Ward manager, have purchased 14 acres of land at New Providence, N. J., near Summit, and next summer will move their present plant to the new location, and erect as much additional glass as they now have here, making a total of about 10,000 feet, all to be devoted to carnations, violets and pansies.

GRAND RAPIDS, MICH.—The winter meeting of the Grand River Valley Hort. Society was held here December 22 at Burton Farm, the home of Mr. Chas. W. Garfield. The meeting was a very interesting one. President Garfield declining a renomination officers for the ensuing year were elected as follows: Jos. A. Pearce, president; Wm. N. Cook, vice-president; Thos. L. Brown, secretary; E. Chase Philips, treasurer.

SYRACUSE, N. Y.—Our florists are feeling very happy over their Christmas trade, which was far in advance of previous years. Holly was well berried and sold well; one firm sold 20 cases. The demand for flowers was very good and prices ruled well. During the holidays there has been great activity in society, and at each event flowers have been used more lavishly than ever before. La Grippe, too, has been very busy and has carried off quite a number of people. One florist told me he had been working 36 hours making up pieces—and he had great difficulty in getting flowers.

SITUATIONS, WANTS, FOR SALE

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a good rose grower, married, good reference. C D, care Am. Florist.

SITUATION WANTED—By practical florist and gardener; private place preferred. Address W S, care Albert Schagan, Penn Yan, N. Y.

SITUATION WANTED—By a single man, as rose grower, propagator or general greenhouse work on a commercial place. Best of references given. JESSE G. STRONG, Fern Creek, Ky.

SITUATION WANTED—In seed trade; 11 years' experience in English seed houses; all round knowledge of book-keeping B W F, care Mr. Heather, Belvoir, Yonkers, N. Y.

SITUATION WANTED—As foreman in a commercial place, where American Beauties and La France are specialties. Good wages expected. Strictly temperate. Address FOREMAN, care American Florist.

SITUATION WANTED—By a young Englishman, age 21, as gardener; experienced in chrysanthemums, orchids, roses, stove and greenhouse plants; 6 years good reference. Address W, care American Florist.

SITUATION WANTED—By florist and gardener on private or commercial place; single; 20 years' experience; sober and industrious. Best of references. Please state wages J. F. BROWN, Highlands, Newport, Ky.

SITUATION WANTED—By florist and gardener; German, married, age 39, private place. Successful rose grower, best of references both private and commercial, also from present employer. Address B M, care American Florist.

SITUATION WANTED—By a first-class florist, single, German, 25 years of age, honest and industrious; thorough knowledge in growing roses, carnations, palms, propagating, cut flowers; well up in design work and decoration. Can give references. E P, care American Florist, Chicago.

SITUATION WANTED—By florist, single, age 28, 10 years practical experience in all branches of horticulture, well up in roses, carnations and bulb forcing and thoroughly capable of taking charge. Good references Address THOS. MCKENZIE, 113 John St., Cincinnati O.

SITUATION WANTED—By a young man who has had eight years horticultural experience with a prominent seedsman and florist in both warehouse and greenhouse. Good practical knowledge of botany and gardening; 25 years old, single and American; city or country references Address P W A, care American Florist.

SITUATION WANTED—By a German florist and gardener, age 33, married, small family, strictly temperate, having 19 years practical experience from first class German and American private and commercial places, best references. Violets, roses and carnations my specialties. Good salary. Address FLORIST, East Moriches, Long Island, N. Y.

SITUATION WANTED—By a German, age 30, married, as foreman in private or commercial place, who at present holds the latter. Thoroughly versed in growing roses, carnations, bulbs and plants. Has had experience in leading places in Germany, France and this country for a number of years. Good references. Address CHAS. JOHNSON, care John Reid, 687 Bergen Ave., Jersey City, N. J.

WANTED—At once, a florist, one that understands growing roses, carnations and other cut flowers. Address E L, care Am. Florist.

WANTED—Parties to build two greenhouses 20x100 feet for parties well established in the trade, having at present 630 square feet of glass. Address A D, care American Florist.

WANTED—Experienced and competent grower to take charge of six greenhouses. Experience as grower for the cut flower trade necessary RICHMOND FLORAL CO., 15 W. Broad St., Richmond, Va.

WANTED—A good rose grower for commercial place who has had experience in growing other stuff also. Address SUN, care American Florist, stating wages expected and giving references. A good place for a first class man.

FOR SALE—Two greenhouses, 1,600 ft of glass 2 acres of land, and wind mill; in one of the best towns of Texas. Address W A C, care American Florist.

FOREMAN—For general florist business. John N. May can with confidence recommend a really good practical man for such; age 36, married Address for particulars to JOHN N. MAY, Summit, N. J.

FOR SALE—New greenhouse establishment on a main thoroughfare; cars pass the door every few minutes; about 1 700 feet of glass, heated by hot water; brick dwelling house, all latest improvements. 687 Dover Court Road, Toronto, Ont., Canada.

WANTED.

A young lady who understands the dried flower design trade, only those with experience need apply. Philadelphia wholesale house. State wages expected, reference, &c. Address:
DRIED FLOWERS 1892, care Am. Florist.

Carnation Cuttings.

NEW AND STANDARD SORTS.

SEND FOR PRICE LIST

WM. SWAYNE,

P. O. Box 226. KENNETT SQUARE, PA.

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN, besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,

THE PINES. KENNETT SQUARE, PA.

SMILAX.

Five Thousand extra heavy 6 to 7 foot strings ready at

$20.00 PER 100. CASH WITH ORDER.

B. F. DORRANCE,

Wilkes Barre, Pa.

FLORAL DESIGNS,

The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.

CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "**DORINDA,**" a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

R. T. LOMBARD,
WAYLAND, MASS.

AURORA.

Winner of the Ladenburg Cup for best pink

CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

Send for general price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

PURITAN.

NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:

Rooted Cuttings.....$8 per 100; $70 per 1000.
From 2¼-inch pots, $12 per 100; $100 per 1000.

Send for catalogue with full description of this and other varieties.

WOOD BROTHERS, Fishkill, N. Y.

ROOTED CUTTINGS **CARNATIONS** **ROOTED CUTTINGS.**

A FULL LIST OF CHOICE SORTS,

Tested Novelties and Prize Varieties

NOW READY.

Address H. E. CHITTY,
PATERSON, N. J.

Mention American Florist.

ROOTED CUTTINGS OF

CARNATIONS

Nice, healthy Rooted Cuttings of Carnations of all the leading and newer sorts, in any quantity after Dec. 10th. Orders received for future delivery at 10 per cent. discount from price list. Correspondence solicited.

JOSEPH RENARD, Unionville, Chester Co., Pa.

DAYBREAK

and seventy other varieties of

CARNATIONS,

Includ'ng all the new kinds.
Send for price list.

GEO. HANCOCK, Grand Haven, Mich.

Send for my Catalogue of

CARNATIONS.

JOHN McGOWAN, Orange, N. J.

25,000 ROOTED CUTTINGS

CARNATIONS

NOW READY.

New and Standard sorts, all grown from fine healthy stock. Send for price list.

GEO. B. WHITEHEAD, Green's Farms, Conn.

ROOTED CUTTINGS.

Descriptive Price List now ready.

Not all the Carnations that grow, but the cream of those that are worth growing. The same is true of Coleus, Geraniums and other stock.

This list will be sent to all those who received my descriptive list without application, and to others who apply.

ALBERT M. HERR, LANCASTER, PA.

The New Carnations. ROOTED CUTTINGS.

INTRODUCERS' STOCK OF

GOLDEN TRIUMPH, PEARL, AURORA, THOS. CARTLEDGE, PURITAN, GRACE DARLING, CRIMSON CORONET, PEACHBLOW CORONET.

—BEST VARIETIES OF LAST SEASON AND STANDARD SORTS.—

Lizzie McGowan, Hector, Mrs. Fisher, Golden Gate, Fred Creighton and other good ones in any quantity.

—) SEND POSTAL FOR DESCRIPTIVE TRADE LIST. (—

30 varieties CARNATIONS. 36 varieties COLEUS. Best bedding GERANIUMS.

ALEX. McBRIDE, Alplaus, N. Y.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

READY FOR

Immediate Delivery,

30,000 LOW BUDDED ROSES.

Ulrich Brunner.	Baroness Rothschild.
Magna Charta.	Persian Yellow.
Mme. Gabriel Luizet.	La France, Etc., Etc.

$10 per 100; $90 per 1000.

Gen. Jacqueminot, 2 years old, own roots $12.00 per 100.

HULSEBOSCH BROS.,
Box 3118. NEW YORK CITY

ROSES.

Wide awake florists will purchase their Roses now, while in a dormant condition. Our plants shifted now in larger sizes of pots, will give you a return of 100 %.

We have now ready 50,000 in 2-inch pots, $3 per 100; $30 per 1000, our selection. 25,000 in 3-inch pots, $5 per 100; $50 per 1000. Also a fine lot of HYBRIDS, $5 per 100; $50 per 1000. Larger sizes from $10 to $20 per 100.

Send lists to be priced. New Catalogue ready January 1.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

ROSES.

—o—

FIRST-CLASS STOCK ONLY, for forcing.

LIST READY FEB. 1st. WRITE YOUR WANTS.

M. A. HUNT,
TERRE HAUTE, INDIANA.

Verbenas

FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30.00
" Rooted Cuttings	1.25	10.00
General Collection, stock plants	3.00	25.00
" Rooted Cuttings	1.00	8.00
H. P Roses, 2 years old, dormant	10.00	
Fine stock, 3-inch, Forcing Roses	8.00	75.00

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1.00	8.00
Feverfew (Little Gem), extra strong	2.00	15.00
Salvia splendens, extra strong	1.50	12.00
Moon Vine	2.00	
Ageratum, blue and white	1.25	10.00
Achyranthes Emersonii, etc.	1.00	
Heliotrope, light and dark—no rust	1.50	12.00

WOOD BROTHERS,
FISHKILL, N. Y

Mention American Florist.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

POLYANTHA ROSE

CLOTILDE SOUPERT. This is one of the best roses for pot culture. For spring trade we have this rose by thousands, in 2-inch pots.

We also have a fine lot of

FUCHSIAS;

Six best varieties. Prices on application.

N. ADMIRAL,
City Greenhouse, DANVILLE, ILL.

Mention American Florist.

ROSES.

FINEST STOCK FOR FORCING IN THE NORTHWEST.

SMITH FLORAL CO.,
77 Seventh Street, MINNEAPOLIS, MINN.

Mention American Florist.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

IN RESPONSE to a communication rerently received from one of our readers we are impelled to again call the attention of some of our advertisers to the necessity of keeping their advs. fresh and up to date. It certainly is, as our correspondent says, very annoying to order stock advertised and then receive the answer "We are sorry to say we are all sold out," and then to note that that particular stock has not been eliminated from the subsequent advs. of the same party. When you sell out on any item of your stock, do not fail to order a change in your adv. at once, and if too late to reach us by mail by the following Monday use the wires. It will pay every time to keep your announcements of stock right up to date of going to press. We are always glad to make any necessary changes in advs, only recollect that orders for such changes must reach us by Monday afternoon to enable us to make them for the issue of the following Thursday. On account of the fine press work on the FLORIST we are obliged to go to press early in the week.

SINCE we began the publication of Mr. Menand's personal recollections we have received many expressions of admiration for him from those who have known him well, Mr. Valentine Burgevin, Kingston, N. Y., taking the trouble to write us a four-page letter to express his great regard for Mr. Menand as a man of the strictest honor and of unusual skill as a plantsman. Mr. B. concludes by saying: "The fraternity will unanimously take Father Menand by the hand and wish him a Happy New Year."

WE HAVE received a copy of the constitution and by-laws of the American Carnation Society. It is very neatly printed and fully sets forth the objects of the society. Those contemplating becoming members of the society can secure copies by addressing the secretary, Mr. C. J. Pennock, Kennett Square, Pa.

SEND US a report of the holiday trade in your city or town. Was it greater or less than last year? Were retail prices higher or lower? Was the supply equal to the demand at prices asked?

OUR REPORTS show that the demand for flowers for New Years was unexpectedly large and the supply short.

Catalogues Received.

F. Barteldes & Co., Lawrence, Kans., seeds; Alex. McBride, Alplaus, N. Y., rooted cuttings; H. E. Chitty, Paterson, N. J., rooted carnation cuttings; August Rolker & Sons, New York, trade list flower seeds.

REMOVAL.

BURNS & RAYNOR,

Wholesale Florists,

HAVE REMOVED TO

49 West 28th Street, NEW YORK,

where they will have larger store space and better facilities for their rapidly increasing business. Their method of **Shipping Roses** has given them a large out of town trade and for good flowers, especially **Beauties** and **extra choice Roses** the above address is **Recognized Headquarters.**

Please mention American Florist.

CUT SMILAX

Over ¼ acre solid beds. First-class quality, 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.

JOS. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

YOUNG BROS.,

WHOLESALE FLORISTS,

20 West 24th Street,

NEW YORK.

Thos. Young, Jr. CONSOLIDATED. **John Young.**

The Largest Wholesale House in the Country.

AGENTS FOR THE BEST GROWERS. FLOWERS SHIPPED TO ALL POINTS.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price-list write for same.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.
Mention American Florist

JOHN C. BRUCKNER,
(Successor to E. J. HARMS),
WHOLESALE DEALER IN
CUT FLOWERS,
AND FLORISTS' SUPPLIES,
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

C. STRAUSS & CO.
GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
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ST. LOUIS, MO.
A complete line of Wire Designs.

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S PENNOCK.)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

Wholesale Markets.

Cut Flowers.

BOSTON, Jan. 5.

Roses, Gontier, Niphetos	6.00@ 8.00
" Perles, Sunsets	8.00@10.00
" Mermets, Wabans	12.00@16.00
" Bride, La France	12.00@16.00
Carnations, short	2.00
" long	3.00
Valley	6.00
Narcissus, Romans	4.00
Harrisii	16.00
Callas	20.00
Violets	1.25@ 1.50
Smilax	12.50
Adiantums	1.00

NEW YORK, Jan. 5.

Roses, Bon Silene	3.00@ 4.00
" Perles, Sunsets, Gontiers	4.00@ 5.00
" Niphetos	3.00@ 4.00
" Mermets, Brides	8.00@10.00
" Cusins, Watteviles	8.00@10.00
" Bennetts, Hostes	6.00@ 8.00
" La France	8.00@12.00
" Albanys	10.00@12.00
" Beauty	50.00@75.00
Carnations, long	2.00
Smilax	15.00@20.00
Mignonette	2.00@ 3.00
Roman hyacinths	3.00
Narcissus	3.00@ 4.00
Valley	6.00
Tulips	6.00
Harrisii Lilies	15.00
Violets	1.50
Adiantums	1.25
Lilac, per bunch	1.50

PHILADELPHIA, Jan. 5.

Roses, Brunners	50.00@60.00
" Laings, Magnas	40.00@50.00
" Beauties	30.00@45.00
" La France, Albany	12.00@15.00
" Mermets, Brides, Bennetts	10.00@12.00
" Cusins, Watteville	8.00@10.00
" Perles, Niphetos, Gontiers	6.00@ 8.00
Valley	4.00@ 6.00
Carnations	1.50@ 2.50
" Wilders	3.00
Mignonette	2.00@ 4.00
Bouvardia	2.00
Romans	1.50@ 4.00
Smilax	15.00@20.00
Violets	1.50

CHICAGO, Jan. 5.

Roses, Am. Beauties	30.00@40.00
" Bon Silenes	4.00
" Perle, Hostes	6.00@ 8.00
" Gontiers, Niphetos	6.00@ 8.00
" Mermets, Brides	8.00@12.00
" Bennetts, Dukes	8.00@12.00
" La France, Woottons	8.00@12.00
" Albany	10.00@15.00
Carnations, short	1.00@ 1.50
" long	1.50@ 2.00
" " fancy	3.00@ 5.00
Romans	4.00
Narcissus	4.00@ 5.00
Violets	1.50@ 2.50
Valley	6.00
Tulips	4.00@ 6.00
Smilax	15.00
Callas, Harrisii	15.00@20.00
Bouvardia	2.00
Poinsettias	25.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order.

EDWARD C. HORAN,
Wholesale Florist
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
—— ALSO ——
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

SEE ADVERTISEMENT OF
YOUNG BROS.
ON OPPOSITE PAGE.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST
32 West 30th Street,
NEW YORK.
ROSES SHIPPED TO ALL POINTS.
Price List on Application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

GEO. MULLEN,
WHOLESALE FLORIST.
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

CARNATION BLOOMS.
IN FANCY COLORS—LONG STEMS.
I solicit standing orders from florists and others throughout the country, as I make a specialty of shipping them long distances safely by express.
WANTED! 50 plants or more of Scented Geranium London Blue. Mail sample plant or foliage with price, to the undersigned.
CHAS. T. STARR, Florist, Avondale, Chester Co., Pa.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

W. ATLEE BURPEE, G. H. Leahy and S. Y. Haines visited Chicago Dec. 31.

MR. MAULE'S new catalogue has 10 colored plates and costs 7 cents postage to mail.

THE U. S. TREASURER has lately decided that yellow immortelles must pay duty of 10% and colored 20%.

WM. H. RAND, formerly with M. B. Faxon of Boston, has taken a position in the employ of Wm. Elliott & Sons, New York.

THE BOWLING TEAM of the seedsmen connected with the John Lewis Childs' establishment recently won an exciting match game with a team representing the business men of Floral Park.

AN EUROPEAN trade seed list just received describes a new cucumber which "produces its fruit in such an abundance that it is nearly impossible to see anything of the foliage and tendrils." They ought to have an "exaggeration committee" over there.

SEED advertisements are being run later than usual for 1892. Mr. Burpee will have 2 pages in February Century. Four other firms will each run a full page in that issue. Mr. Maule will have a full page in January special issue of the Youth's Companion and Mr. Childs a page in February. These cost $2,500 each issue.

Succession Crops.

I grow bedding plants mainly and would like some suggestions regarding the best way to get the most I can out of my houses. What crops shall I raise and in what succession to attain the best results? My trade is entirely retail and am located in a community where most any good stock will sell. F. B.

Perfumes From Flowers.

Will those in the trade who have had experience or may know by seeing the process worked, tell me if distillation is a desirable and profitable mode of extracting perfume from flowers? I would also be pleased to know what kinds of flowers are the most profitable to work (if at all) in Ohio. Any information as to processes, varieties of roses and other flowers that could be grown to best advantage will be thankfully received.

SUBSCRIBER.

MR. H. V. LAWRENCE, Falmouth, Mass., has sent us a copy of a very neat holiday announcement to his customers. It has four pages and a cover, the pages about 4 by 5 inches. In the center of the first outside cover page are the words "Christmas Greens" in gilt, on the second inside page occurs the same title in green, the next two pages contain the list of greens, on the following page occurs the florist's name and address, and on the last outside cover page appear the words "Decorations for Church or Home" also in gilt. It is certainly a very neat circular and was undoubtedly very effective.

Burpee's Seeds Grow

And produce strong, thrifty plants and these plants develop into the choicest vegetables and most beautiful flowers after their kind. Burpee's Seeds are tested, not only for vitality, but also for trueness to type; each variety is maintained in purity and many are improved by constant and intelligent selection, so that we can honestly state BURPEE'S SEEDS are THE BEST, the VERY BEST it is possible to produce, and are warranted. Do you want such seeds? If so write to-day for BURPEE'S FARM ANNUAL for 1892, which gives honest descriptions, faithfully illustrated, of all the best seeds, including Burpee's Bush Lima and other rare novelties of surpassing merit. Every progressive farmer and gardener should read it. Free to all who intend to purchase.

W. ATLEE BURPEE & CO., Philadelphia, Pa.

1892. GREGORY'S SEED CATALOGUE 1892.

For Over Thirty Years

we have always had very pleasant dealings together, the public and myself, and I again have the pleasure of presenting to them my Annual Vegetable and Flower Seed Catalogue. It contains the usual immense variety of seed, with such new kinds added as have proved to be real acquisitions. Raising many of these varieties myself, on my four seed farms, and testing others, I am able to warrant their freshness and purity, under such reasonable conditions as are contained in my Catalogue. Having been their original introducer, I am headquarters for choice Cory Corn, Miller Melon, Eclipse Beet, Hubbard Squash, Deep Head, All Seasons and Warren Cabbage, Etc., Etc. Catalogue FREE to all.

J. J. H. GREGORY & SON, Marblehead, Mass.

NO ONE largely interested in fruit growing should fail to read the paper on "Pomology in the eleventh census," read before the American Pomological Society at Washington last September. The paper was prepared by Mr. Mortimer Whitehead, who had charge of this division of the census, and the paper has been published in pamphlet form by the government. Copies may be had on application to Mr. Mortimer Whitehead, Census Bureau, Washington, D. C.

WE HAVE received from Mrs. R. Mauff, Denver, Colo., a photograph of a design arranged by her for a "doll's fair" held in Denver December 10. It was the figure of a doll 27 inches high, a wax head being used, the dress and drapery being of flowers. The front of the dress was of Silver Spray and the back and train of Grace Wilder carnations. The sleeves were of stevia. It proved a very taking feature of the fair.

IN A DISCUSSION at the recent meeting of the Eastern Iowa Hort. Society at Oskaloosa, upon worms and bugs that the fruit growers have to combat, one speaker said there was a bug upon nearly all the stock sold by the persistent tree agent that was rarely catalogued among the insect pests though the damage done by it was frequently equal to all the rest put together. He announced the name of this bug as "Humbug."

MR. JOHN S. FORSTER, of Evanston, Ill., has paid some little attention to crossing the chrysanthemum, and some blooms shown us recently, cut from his seedlings, were nearly all worthy of names and places in the already long list of "mums."

A LARGE AGAVE.—Mr. W. J. Hesser, Plattsmouth, Neb., has a large specimen Agave Americana that necessitates a special house, 24x26 and 14 feet high, for its accommodation. And he will have to build the roof higher next year.

MESSRS. Ludwig & Richter, Allegheny City, Pa., have sent us a photograph of their table decoration at the recent exhibition in Pittsburg. The photo is too indistinct for reproduction.

MR. J. A. DEVEER, New York, met with a serious loss by fire at his nurseries near Northport, N. Y., December 9.

AMARYLLIS FORMOSSISSIMA.

A grand and very useful Mexican Bulb, for planting in the open ground for cut flower purposes. Bright scarlet flowers freely produced in the early summer. Very strong bulbs.

	Per doz.	Per 100
5 inches circumference	$1.00	$8 00
4½ inches circumference	.75	6 00
4 inches circumference	.50	4 00
3½ inches circumference	.25	2.00

Write for wholesale priced list, ready January 10.

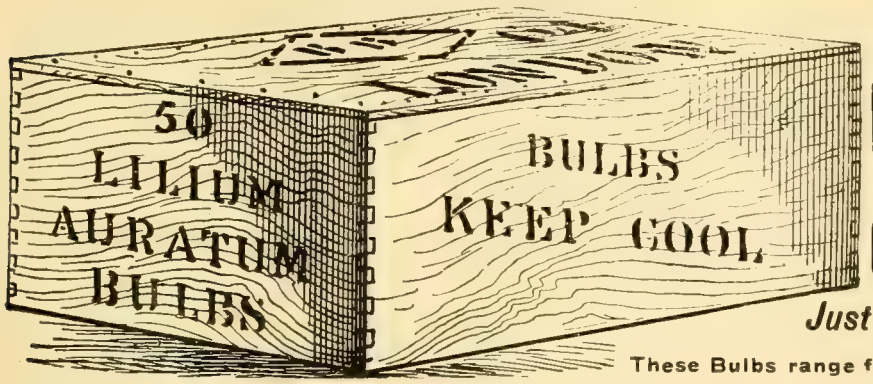
MICHEL PLANT AND SEED CO., ST. LOUIS, MO.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN. CONN.
Mention American Florist.

ROOTED CUTTINGS
CARNATIONS and CHRYSANTHEMUMS for sale cheap, or in exchange for Pelargoniums, Alternantheras, Tuberous Rooted and Rex Begonias.
15 varieties of Carnations, Lizzie McGowan, L. Porsch, etc.
10 varieties Mums, L. Boehmer, L. Canning, etc.
Well rooted, carefully packed. Send for price list.
G. FRANCIS, P. O. Box 169, OSHAWA, CANADA.
Mention American Florist.

EXTRA PANSY SEED.
Mammoth Sunbeam Strain.
A grand collection of giant flowering varieties: flowers measure 2¾ to 3 inches in diameter, of perfect form and finest colors. Be sure to sow of it. Liberal trade pkt. 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.
JOHN F. RUPP, Shiremanstown, Pa.

EXTRA CHOICE FLOWER SEEDS.
List free on application.
FRED. ROEMER, SEED GROWER
QUEDLINBURG, GERMANY.



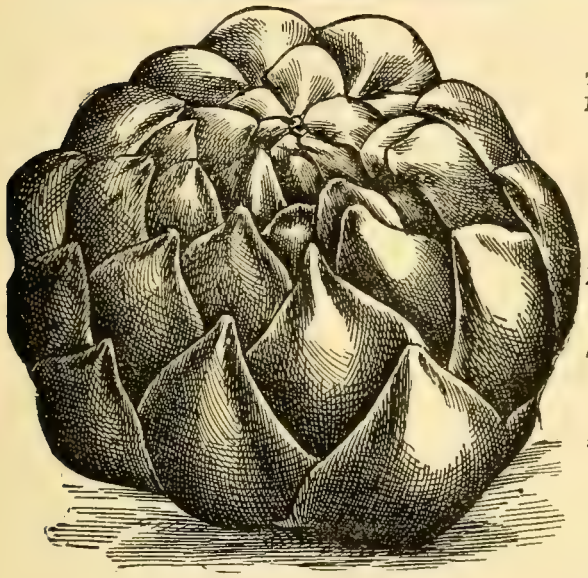
1000 CASES LILIUM AURATUM

—OR—

Golden Japan Lilies

Just Landing direct from Japan.

These Bulbs range from 10 to 12 inches in circumference.



LILIUM AURATUM.
[*Size 10 to 12 inches in circumference.*]

They are the FINEST lot that has ever arrived in this country. They are packed in soil—each case containing 50 Bulbs, and will keep perfectly sound until June.

Price per Case, $6.00.

5 Cases at $5.75. *10 Cases at $5.50.*
25 Cases at $5.25. *50 Cases at $5.00.*

Also **200 Cases Lilium Speciosum Album**

50 Bulbs each. (9 to 11 inches.) **Per Case, $8.00.**

200 Cases Lilium Speciosum Rubrum

50 Bulbs each. (10 to 11 inches.) **Per Case, $7.00.**

Also **200,000 Double Pearl Tuberoses**

ranging in size from 3½ to 7 inches in circumference, at $8.00 per 1,000.

ROBERT BUIST, Jr., Importer and Grower of Seeds Philadelphia, Pa.

Warehouses—No. 922 & 924 Market St.,

SPECIAL OFFER

Lily OF THE Valley

Price, 3 year old, Hamburg pips, $9.00 per 1000; $1.25 per 100.

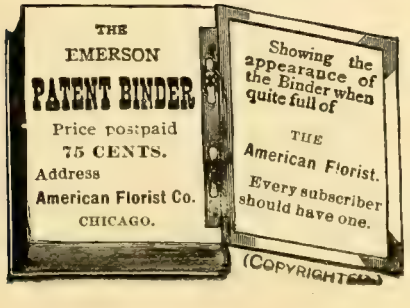
In Case lots (2,500 to 3,000 each), $8.00 per 1000.

SPECIAL PRICE ON LARGE LOTS.

TERMS CASH.

Address **J. A. DE VEER,**
154 East 34th St., New York.

Mention American Florist.



FLORISTS SEEDS.

The new crop of many varieties is now in store.

All Spring Bulbs Ready.

J. C. VAUGHAN, BOX 688 **CHICAGO.**

SPRING BULBS.

TUBEROSE BULBS.

JUNE STOCK. Well Cured.

Dwarf Pearls, $1.25 per 100; $10 per 1000.
Tall Double, $1.25 per 100; $10 per 1000.
Liberal discount on larger lots.
Samples free.

W. W. BARNARD & CO.
6 & 8 North Clark St., CHICAGO.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

Mention the AMERICAN FLORIST when writing advertisers on this page.

The Cultivation of Mushrooms.

The following standard works will be sent post free on receipt of price:

MUSHROOM CULTURE Robinson. $.50
MUSHROOMS—How to Grow Them. Falconer. 1.35
MUSHROOMS FOR THE MILLION, 16 pages. Free.

JOHN GARDINER & CO.,
Seed and Bulb Growers, Importers and Dealers,
Philadelphia, Pa., U. S. A.

KAE SHEAN CO.,
Growers of CHINESE SACRED LILY,
HONG KONG.

Goods can be obtained at the following houses:
John L. Childs Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan. . . . 146-148 W. Washington St., Chicago.
F. R. Pierson. Tarrytown, N. Y.

Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house

PHLOX DRUM. GRANDIFLORA SEED.

A grand selection of the largest flowered and finest colored varieties that can be procured. Contains the cream of the latest novelties; many new and fancy colors. Excellent for blooming in pots. Extra choice. Trade pkt. 20c.; 3 pkts. 50c.; 7 pkts. $1.00.

JOHN F RUPP, Shiremanstown, Pa.

Electro-Culture.

Electro-culture is a new word that has recently been coined. It refers to the cultivation of plants under the influence of electricity.

The English *Gardeners' Chronicle* in a recent issue recounts the progress that has been made in electro-culture and records some very interesting experiments in which some remarkable results were obtained. It was found that the electric light in its full intensity was on the whole unfavorable, but that when softened by interposing white glass really wonderful stimulation of growth, blooming and fruiting followed. Glass of other colors were tried. Progress was much slower with yellow glass and the plants were less vigorous and paler in color; the red glass produced a medium growth, but the foliage was meagre and yellowish; the blue glass yielded the worst results of all.

The *Chronicle* concludes its article as follows: "It appears, then, that the effect of the electric light upon plants is of a very powerful order and such experiments open up an exceedingly interesting line of research, which might lead to really practical results."

The experiments in electro-culture that will be conducted by Chief Thorpe in the cave under the great rock work beneath the central dome of the Horticultural Building of the World's Fair at Chicago in '93 will be most interesting, as he will have the assistance and hearty support of the Chief of the Department of Electricity and the suggestions of Mr. Thomas A. Edison.

CYCAS REVOLUTA STEMS,

To be delivered from February to April. By weight, roots and fronds trimmed off. We handle the

TRUE LONG-LEAVED SORT

only, and can furnish in sizes of from 4 inches to 4—6 ft. We imported over 30,000 lbs. past season, and can refer to the best firms in the United States as to satisfactory results. Full information as to freight rates, mode of treatment, etc., given on application. Our terms are consistent with **BONA FIDE** stock.

LIL. AURATUM, RUBRUM, LONGIFL., ALBUM, ETC.

Send for our Trade List and full descriptive, finely illustrated, retail catalogue. All desired information, estimates, etc., given cheerfully.

Address **H. H. BERGER & CO.**
SAN FRANCISCO, CAL.

ESTABLISHED 1878.

Mention American Florist.

PANSIES AND OTHER STOCK

For Fall Planting. Per 100 Per 1000

SMILAX, 2½ inch pots $1.50 $12.00
CHRYSANTHEMUMS, 5-inch pots . 8.00
CHRYSANTHEMUMS, large stock plants in variety 20.00

Address **J. G. Burrow,**
FISHKILL, N. Y.

Mention American Florist.

FLORISTS

who take orders for **Hardy Rhododendrons, Azaleas, STANDARD ROSES**, and other Shrubs and Trees, should write or call at once on

FRED. W. KELSEY, 145 Broadway, NEW YORK.

100 ESTABLISHED ORCHIDS, $25
1000 CANE STAKES, $1.00.

Price list free. Samples by mail for 50 cts.

BRACKENRIDGE & CO.,
Govanstown, Md.



CYCLAMEN FLOWERS

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Extra size	$24.00	per hundred;	$216.00	per thousand.
1st size	16.00	"	135.00	"
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Smaller plants ($200.00 per 10,000).	2.50	"	23.00	"

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JESSICA once more to the front. Those that had it, wished they had grown more. Those that had none, wished they had it.

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We offer Stock Plants of **Jessica**, 25c each: Rohallion, the grand new early yellow, 25c.; Mrs Gerard, the earliest large pink, 25c. The best flowers of this variety wholesaled at 50c. each in the New York market.

These three varieties have now flowered and are ready for shipment. All other commercial varieties on hand and ready as soon as flowers are cut.

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Also sixteen plants for One Dollar, older varieties, all prize winners.

Plants now ready for delivery. **M B. LITTLE,**

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In reply to Mr. Geo. Stafflinger I would say I have used almost the same plan for killing greenfly for the last five years and found it most satisfactory.

My method is to burn Scotch snuff on a piece of red-hot iron at the rate of 2 oz. for 500 feet of glass and it never fails to get every fly. This small quantity will not injure the tenderest plant, but if any one doubts the effect let him try to stay in a house during the fumigation.

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Will stand several days' travelling without injury. Sizes from 6 inches to 24 inches. Prices according to size.

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Double White Primulas.

Fine plants from 3-inch pots, in bud and bloom, at $8.00 per hundred.

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HYDRANGEA THOMAS HOGG, from 2-in. pots, per 100, $5.00.

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BETTER THAN IMPORTED GOODS.

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Choicest Seedlings, equal to named flowers, in 12 distinct colors and shades per doz. 2.50

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In distinct colors, White, Rose, Pink, Scarlet, Crimson and Salmon. per doz. 2.50
Choicest select Seedlings, in 12 distinct colors and shades " 4.00

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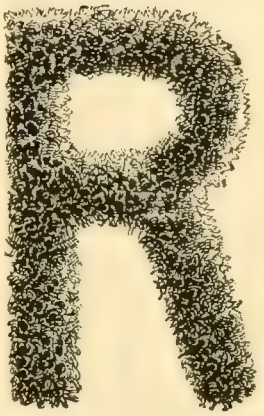


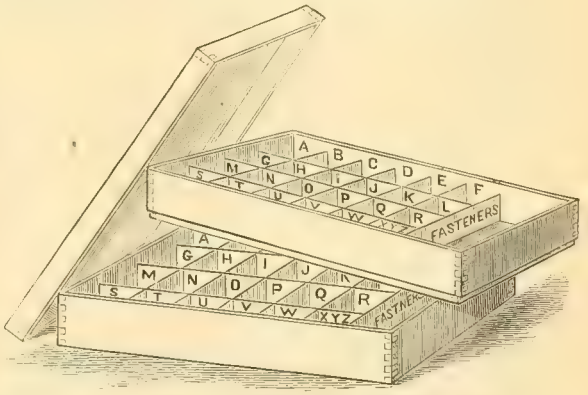
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[*P. S. by J. H. McF.*—The "we" will go better after a bit. Just notice that I'm right "in it" yet, at the same old stand, and the others are helping me to do better for all of us, and you!]



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Trenton, N. J.

Mr. Harry Chambers of Bristol, Pa., writes us a letter describing a visit to the greenhouses and nursery of C. Ribsam & Sons of Trenton, in which he speaks very highly of the business enterprise of this firm and expresses gratification at the kindly welcome which he received. The greenhouses are situated in the finest part of the city and are devoted entirely to the growing of plants and flowers for their retail trade. The rose houses our correspondent describes as in unusually fine condition. Three new palm houses 100x20 have been recently built. Seven small hot water boilers have been taken out and sent to the nursery to heat the new houses erected there and have been replaced by a 60 H. P. Union boiler. Their large boiler formerly used for steam has been changed to hot water and in future the entire place will be heated by hot water under pressure. Their Union boiler, although quite common hereabouts, was rather a novelty, it really consisting of two distinct boilers set one above the other and connected, the lower boiler or heater being over the fire and tubular in style, the upper or storage boiler holding a solid mass of eleven hundred gallons of water, which when once thoroughly heated would retain its heat a long time. During an experiment made a short time ago a small fire was lighted under this boiler and coaled but once, being allowed to die out afterwards. The water retained its heat over twenty-four hours.

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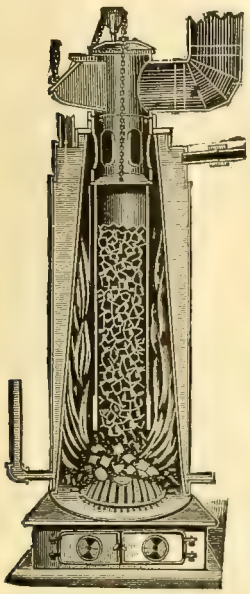
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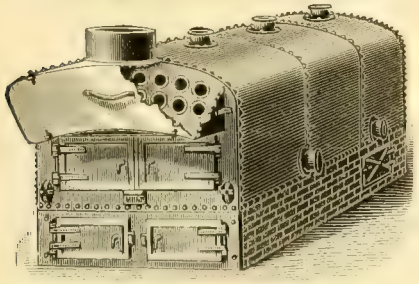
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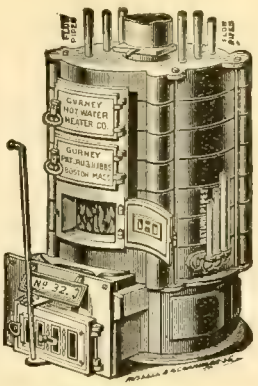


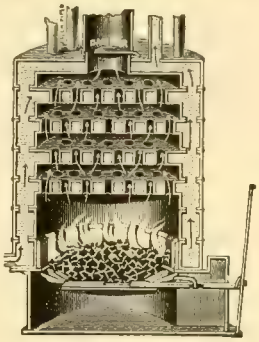
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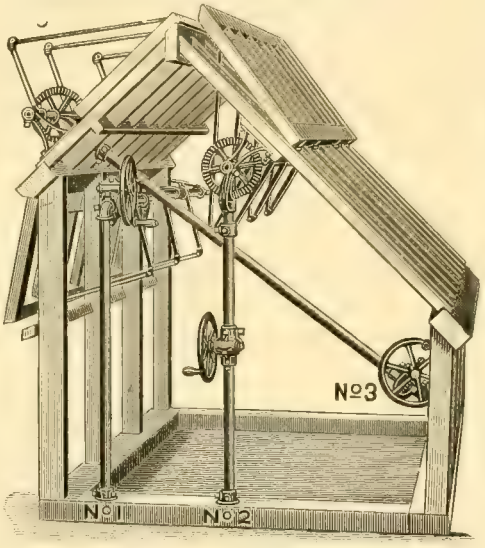




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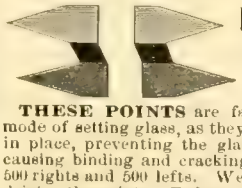
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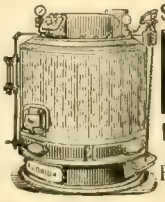
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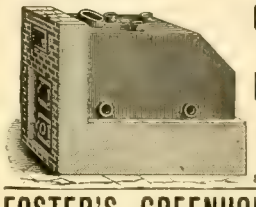


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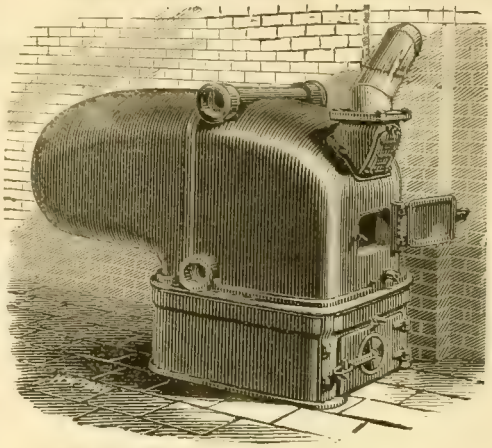
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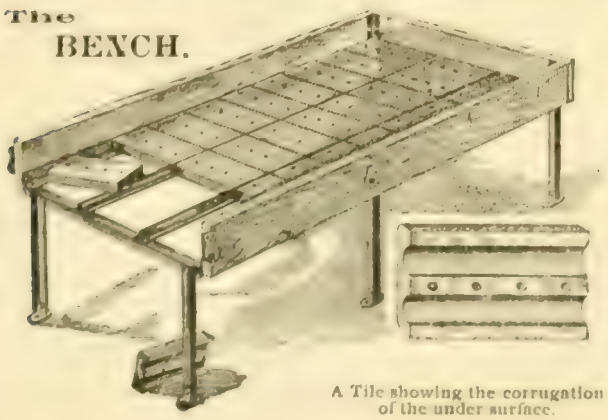
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Vol. VII. **CHICAGO AND NEW YORK, JANUARY 14, 1892.** **No. 189**

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PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

54 La Salle Street, CHICAGO.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

AMERICAN CARNATION SOCIETY.

EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., president; C. J. Pennock, Kennett Square, Pa., secretary. First annual meeting and exhibition at Buffalo, N. Y., February 16, 1892.

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Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BEATTY, Sec'y, Oil City, Pa.

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Insures greenhouses against damage by hail. JOHN G. ESLER, Secretary, Saddle River, N. J.

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OWING to pressure upon our columns several articles have been laid over and will appear next week.

AS WE go to press the Executive Committee of the Society of American Florists is in session at Washington. A full report of the proceedings will appear in next issue.

The World's Fair.

The Department of Horticulture desires to have the planting of the various hardy plants completed by May 1, 1892. This applies especially to such trees, shrubs and plants as are included in the appended lists. Intending exhibitors will do well to carefully peruse and note what must necessarily be done.

The department wishes to impress upon all those who desire either to make competitive groups or donate or loan trees, shrubs or plants, that under no circumstances will poorly grown or badly rooted plants be accepted. All material must be better than ordinary nursery stock; in other words, it must be shapely, vigorous and large enough to be effective. For instance, shrubs like Deutzia crenata fl. pl., should be 3 to 4 feet high with 6 to 8 canes. Spirea callosa not less than 20 inches in diameter. Evergreens must also be characteristic.

The plans for this section of the Horticultural Department are now being prepared and will be completed by the 1st of March.

The department will plant and care for all trees, shrubs and plants during the entire season of 1892, providing contributors will give the department full control of the same, as it may be necessary to remove some of the roses, pæonys, etc. immediately after flowering in 1893. In this case many of the plants would not be of any value to transplant in the summer time.

A complete list of all trees, shrubs and plants as are intended to be supplied must be forwarded not later than March 1, 1892.

Plants must be correctly labelled and duplicate invoices sent with each consignment.

LIST OF PLANTS.

Azalea mollis, A. pontica, Berberis canadensis, B. Fortunei, B. Thunbergii, B. vulgaris, B. v. fructa violacea, B. v. purpurea, Colutea arborescens, Cornus mascula variegata, C. elegans variegata, C. Siberica variegata, C. Spæthia, C. variegata, Cercidiphyllum japonicum, Cydonia japonica varieties, Deutzias of all kinds, Diervilla (Weigela), Forsythia, Hibiscus (Althea), Hydrangea, Hypericum, Kerria, Ligustrum, Lonicera (shrubby species), Philadelphus, Prunus, Rhodotypus, Rhus glabra, Sambucus nigra aurea, Spirea, Syringa and Lilac, (these must be strong enough to flower or they will not be acceptable), Xanthoceras sorbifolia.

Acer (Japanese of good size, all kinds), A. dasycarpum heterophyllum laciniatum, A. Wierii, Amygdalus, Cerasus (double flowering), Cercis, Magnolias (providing they have been recently transplanted and have good roots), Prunus, Pyrus malus (ornamental varieties).

CLIMBERS.

Actinidia polygama, Akebia quinata, Ampelopsis Veitchii (large), A. Roylei, Clematis of all kinds, Dolichos japonica, Hedera helix (large plants well rooted) Menispermum, Periploca græca, Wistaria (must be very strong and well rooted).

EVERGREENS.

Fine specimens with good roots and that have been frequently transplanted.

Abies Alcockiana, A. A. nana, A canadensis varieties, A. Douglasi, A. excelsa varieties, A. Maximowiczii, A. Menziesii, A. Morinda, A. nigra, A. n. pumila, A. obovata, A. orientalis, A. polita, A. pungens, Biota orientalis and varieties, Chamaecyparis in variety, Cupressus Lawsoniana and varieties, Juniperus species and varieties, especially prostrate forms, Picea species and varieties, Pinus species and varieties, especially dwarf forms, Retinospora of all species and varieties, Sciadopitys verticillata, Taxus species and varieties, Thuyopsis borealis.

ROSES FOR THE OPEN GROUND.

A most unique and beautifully designed rose garden is now being planned which will accommodate about 50,000 plants, besides large areas of space have been reserved where large groups of roses will be planted.

The rose garden will be of classic design, with temples, arbors, archways and trellises. The great masses, the people, have not had an opportunity to see a typical rose garden. The time has now come and nothing should be left undone to insure a magnificent display.

Rose growers will please read carefully the remarks with regard to trees, shrubs and plants being ready for planting before May, 1892.

It is expected that large and substantial premiums will be offered for roses as well as for all other plants besides the awards that will be made by the United States Commission.

Plants of roses may be either on their roots, budded or grafted. Plants on their own roots may be from not less than 3½-inch pots, of the current year's propagation or they may be one or two year old dormant plants. Well rooted budded plants with the buds dormant will be admitted, thus giving an opportunity for obtaining greater variety.

The above remarks apply to H. P. and other hardy roses. Teas, noisettes and other tender kinds will require different treatment, and it is suggested that strong plants in 5-inch pots be carried over in cold frames, to be planted early in 1893.

Clubs.

What is going to be done about the gathering of the clubs at the next convention? Is it the intention to have another meeting of delegates similar to the one held at Toronto last year? If so, is

it not time now that the matter should be discussed and some sort of a programme arranged? August may seem a long way off to look forward to, but clubs that meet only once a month generally have plenty of business on hand for that one night, so that perhaps it is not too early to begin getting matters into shape if anything is to be done.

Perhaps the S. A. F. Executive Committee might be able to make some suggestions during its session at Washington and set the ball rolling. Or failing a meeting of delegates could not the Executive Committee detail some competent person to read a paper, say on "The management of Gardeners' and Florists' Clubs," during the convention at one of its meetings and have discussion on it after. This is a matter which in my opinion needs more attention than it gets. Many clubs instead of being run by an able president or secretary with business-like system and tact are allowed to run of themselves as best they can. There are many subjects which inexperienced secretaries and even experienced ones would like to have some pointers on. In some clubs I know of the relations between gardener and florist are at present rather strained. Now why in thunder should these relations be strained? Certainly the florist has interests at stake which do not affect the gardener much and vice versa, but I can't for the life of me see why these interests should clash. It is to the interest of both that the whole profession should be elevated and brought more and more before the public and surely both gardener and florist combined can do this better than one of them alone. It seems to me that the interests of the gardener and florist are so interwoven that it is positive damphoolery to try and separate them as some seem to like to do. I suppose no club is without the member who is always talking about "cliques" and "rings" and such like rot. He is a necessary evil that must be tolerated. But can not anything be done with those members who attend the meetings but never say a word until they get back to their potting sheds again, when their tongue is glib enough as they prate about "what ought to have been done" and "what I should have done," etc. etc. Why on earth can't they talk about the good that was done and that might be done, or at least why can't they say what they think at the meeting instead of confiding it all to their cronies outside? Surely there is to be found on this broad continent some one who is conversant enough with the ways of men and of gardeners and florists in particular who can tell us how these difficulties and many others of a like nature can be rectified or at least improved. If there is let him be brought out and tell us all about it.

I trust, Mr. Editor, that you will see fit to use the great influence of the FLORIST to have these matters fully discussed at the next convention. We may hear some unpleasant truths, which I think would do more good than harm and they would help to tone down the large amount of "taffy" of which there has been rather a surfeit on former occasions. These matters are certainly important, because the advancement of horticulture and floriculture depends largely upon the success with which the local club is carried on. E.

YOU WILL certainly want a copy of our new Directory and Reference Book, to be issued this month. The price is $2 and it will be worth many times that to you. Order a copy now.



Grafted Chrysanthemum.

We present herewith an illustration of the grafted chrysanthemum exhibited by Mr. Wm. K. Harris at the chrysanthemum show at Philadelphia last November.

The stock was Puritan and the varieties grafted upon it were: W. H. Lincoln, Cullingfordii, Eva Hoyt, J. C. Heuszey, Irving Clark, President Harrison, L. Canning, Mrs. W. J. Halliday, Robt. Bottomly, Excellent, Ivory, Source d'Or, Mrs. Wm. Bowen, Gold, Advance, Mrs. Geo. Bullock, H. E. Widener, Reward, Snowball, Mrs. Lizzie Cartledge, Eldorado, Jessica, Violet Rose, Miss Minnie Wanamaker and Mrs. John Westcott.

Though bearing 25 varieties all told the flowers of only ten or a dozen were sufficiently developed to show their true character. Among them were Louis Boehmer, Puritan, Mrs. William Bowen, L. Canning, W. H. Lincoln, Miss Eva Hoyt, Mrs. Blanc, Mrs. Alpheus Hardy, Robert Bottomly and a few others.

To the old practitioner in the arts of horticulture there is little or no interest in a grafted plant, but to the young and uninitiated there is something very wonderful in the sight of one plant having a dozen or so distinct varieties in bloom at one time. And as the patrons of flower shows are largely made up of the latter class it is the duty of the framers of schedules to cater to that patronage.

There is not so much necessity for a great number of varieties as it is to have those that are selected well chosen, taking into consideration the time of blooming and the harmonious blending of the colors. These points are of far more importance than the greater number.

Foreign Notes.

At the recent English shows the following chrysanthemums were awarded certificates:

F. W. Flight, (Jap.) crimson; Excelsa, (Jap.) rose; G. C. Schwabe, (Jap.) carmine rose and yellow, 3 certificates; Mrs. Nesbet, (Jap.) purple amaranth; Wm. Turmington, (Jap.) chestnut brown; Mrs. Robinson King, (incurved) golden yellow, 6 certificates; Edwin Becket, (Jap.) golden yellow; Mrs. Edwin Becket, (Jap.) white; Beauty of Castlehill, (Jap.) yellow; Mrs. G. C. Schwabe, (Jap.) blush; William Lane, (Jap.) bright salmon bronze, 2 certificates; Duchess of Westminster, (anemone) rosy bronze, 2 certificates; M. R. Bahuant, (incurved) carmine rose; Mme. Darrier, (incurved) yellow; Robert Cannell, (incurved) chestnut red; Alberic Lunden, (Jap.) brilliant carmine; Bouquet de Dame, (Jap.) white, early; Lizzie Cartledge, (Jap.) Mermet pink; A. H. Neve, (Jap.) silvery blush, 2 certificates; R. C. Kingston, (Jap.) dark purple; Wm. Tricker, (Jap.) delicate rose; Delaware, (anemone) white and pale yellow; Geo. Hawkins, (anemone) golden yellow; Mme. Edward Lefort, (Pomp.) golden yellow, early; Mme. A. Colmiche, (Pomp.) crimson tipped gold, early; M. Jules Paquet, (Pomp.) silvery white, early; Viscount Clicquot, (Pomp.) brick red, early; Vice-President Hardy, (Jap.) golden yellow, early; Viscountess Hambleden (Inc. Jap.) silvery blush; Robert Owen, (Jap.) bronzy gold. S.

Good News.

The intimation in the FLORIST, page 424, that *no flat arrangement of cut flowers will be allowed* at the chrysanthemum show to be held in New York next November, is really good news. And its announcement so soon is a timely suggestion to other cities to adopt the same progressive stand. The splendid appearance of the flowers with long, stout, leafy stems, as compared with the naked blossom heads spread out flat on the regulation exhibition green boards or stands, was, at our last exhibition, irresistible, and the charm of the former over the latter was emphasized by tyro and connoisseur alike. The flat boards must go —away with them.

Another bit of good news in the same article is the edict against *dirty pots*. Truly this was needed. We don't pretend to have the pots in our greenhouses kept washed. But when we bring forth the best fruits of our cultural skill to display them at a public competitive exhibition, out of respect to ourselves as well as to the public we cater to and which pays its hard cash for the privilege of looking at our plants, we should at least present them in clean pots. Decency demands that when we ourselves visit the flower show we shall do so with clean shoes as well as clean faces; it is no more unreasonable to demand that the pots which encase the roots of the plants we send, to the flower show should be as clean as the faces of the plants. It is generally expected that a florist, from the very nature of his calling, is a person of refined taste and neatness; do dirty pots substantiate this good opinion? They don't. In fact the dirty pots at a public horticultural exhibition is a pretty fair indication of the get-up of the party who exhibits them. Away with them.

And the good news continues—"soap boxes and other abominations * * * will be unconditionally sat down upon." At our agricultural fairs and county shows where the premiums for plants are quite small and amateurs mostly the exhibitors, old tin cans, broken tea pots and all manner of such like make-shift vessels are sometimes used as flower pots, and with perfect propriety; all we ask in these cases is that the vessels shall be neat and clean and the plants grown in them worthy of merit. But in a metropolitan exhibition where the premium list aggregates thousands of dollars and the individual premiums for plants run from $10 to $200 a piece, there is no excuse for such aboriginal flower pots, "soap boxes and other abominations," and especially is this so when we have nearly a year's notice before the exhibition takes place.

The Florists' Clubs—Excelsior!

WM. FALCONER.

Advertising Flower Shows.

The very able article on this subject in issue of November 26, by Mr. G. C. Watson, contains many points of interest to all of us and I am led to give my experience in hopes that this subject will be more thoroughly discussed.

Although our flower show has not been conducted under the auspices of a society or club, we have conducted our annual



GRAFTED CHRYSANTHEMUM.

shows with aim and ambition to make them something more than a mere "trade display." Our last year's show was described at some length with photo engravings in the AMERICAN FLORIST of December 4, 1890. This engraving of views taken of the show we used on one side of a circular, size 7½x10, which was our principal mode of advertising, as we had 5,000 of them. Under the engraving we had in large plain type "Chaapel's flower show and chrysanthemum exhibition every day and evening, Nov. 11—14 inclusive, at Williamsport, Pa." On the other side of this circular, which was printed on fine plate paper to fully develop the engraving, we described briefly the main features of last year's show and invited the public to attend the exhibition, and down in the lower corner we stated that the admission would be 10 cents or an admission coupon for 25 cents, which would entitle the holder to admission and its full face value in chrysanthemum flowers. Last year the admission was free and the attendance was about all we could manage; this year the attendance was somewhat larger. We sold about equal numbers of 10 cent and 25 cent admissions, so you can judge we had to "hustle" to wait on the 25 cent coupon orders for chrysanthemums, but we are well satisfied with the results and know that many thousands of chrysanthemum flowers have been distributed in the homes of our city.

We also used in advertising the show 5,000 slips of suitable size to go in an ordinary envelope announcing the show. These we commenced using about a month before the date of the show. 3,000 cards of invitation to the ladies were issued announcing the opening of the show in the afternoon of the first day, with music by the Stopper & Fisk orchestra. Twenty-five of the lithographs issued by the Courier Co., Buffalo, N. Y., were distributed in the windows of our most prominent stores. Our newspapers gave us some very readable articles, though our patronage was limited to a few short notices in their local news columns. This with the 5,000 photo engraving circulars was the extent of our advertising.

In addition to our showing a choice assortment of flowers, such as we handle regularly, we displayed great bunches of American Beauty and other choice roses, vases of chrysanthemums of enormous size and a number of delicate sprays of orchids.

I might say in conclusion that the show was held at our flower store and greenhouses. The store is about 85 feet long and opening from this are four large houses filled with chrysanthemums, palms, etc., and brilliantly lighted by arc electric lights. HARRY CHAAPEL.

THE Cincinnati Florists' Society has already issued an advance premium list for a chrysanthemum show next November. Copies may be obtained on application to the secretary, Mr. E. G. Gillett, 134 Walnut St., Cincinnati, O.

WE AGAIN hear of cases of poisoning from Primula obconica. Do any of our readers know what is best to apply to the affected parts when stung by this primula?

THERE SHOULD BE a new premium for best 25 blooms for cut flower uses, 25 varieties.

Cyclamens at Rob't Craig's.

Few flowers respond with such a generous profusion of bloom to moderate care in culture as does the cyclamen. This fact was again forcibly impressed on the writer last Sunday afternoon as he took a peep at the magnificent houseful of them, which are now in full bloom at Mr. Craig's establishment. They were a sight worth going a long journey to see. Both sides of the house were packed full of splendidly grown plants, some of them in sixes, but most of them in eights, wonderfully clean, bright and healthy—full of flowers and finely diversified in color. The cyclamen flowers have a clean, smiling, inviting coolness about them, like a glint of English sunshine after a week's rain and a mass of them spread out in a long perspective like this house of Robert Craig's gives one a thrill of keen pleasure to look upon. Mr. Smith (Mr. Craig's foreman) deserves credit for this house. Not even at Davy Allan's or Bill Martin's (glorious fellows as they are at cyclamens) are better grown plants to be seen. A great many batches on the benches were marked "sold," and Mr. Smith said they only wished they had had three houses of them instead of one.

Mr. Craig has already got his seed sown for next winter's and spring's flowering, some 4 or 5 thousand being already up and pricked off into thumbs. In sowing the seeds ordinary flat seed boxes are used. The soil is of a light nature and the seeds are sown directly on the surface and pressed gently in and then lightly covered. Mr. Allan used to recommend steeping the seed in tepid water a short time previous to sowing to aid quick germination and detect any immature seeds. Some growers prick off 5 or 6 of the seedlings in a 6-inch pot, but Mr. Smith prefers them singly. They are grown on in a temperature of about 55° till they can be put out in the frames during summer. Great care is exercised in giving the plants plenty of air. Repotting into fives is done about July. It used to be common to keep the dormant bulbs over for the second year, but the large growers now prefer fresh stock from seed every year. Mr. Craig's plants now in flower are the giganteum strain from Williams. There were a good many of what seemed to the writer to be the grandiflorum type of the French among them and these are not so graceful in habit and are broader in the flower and not so deep as the giganteum. The Williams strain the writer believes is now surpassed by that of more than one of the larger growers for the Covent Garden market.

January 3. G. C. W.

White Lilies all the Year Round.

For two seasons past the writer has succeeded in having a summer supply of Harrisii lilies by planting out the bulbs that have bloomed in the house, the first lots being planted in a cold frame or pit so they can be covered with sash in case of late cold. Of course they are turned out of the pots, planted in good ground and as growth advances receive a good supply of water. Later successive lots are planted out in a pear orchard where they can be reached with a hose in a dry time in the summer. The partial shade afforded by the trees seems useful in preserving the flowers from strong sunshine.

The supply was steady. I don't think we were a whole week at any time during the spring and summer months without Harrisii lily flowers ready to cut. The last blooms opened in the house the 15th of October having to be taken in two

weeks previously to save them from frost.

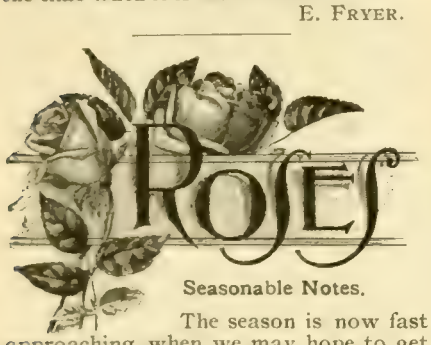
A large bed of L. lancifolium album affords a supplementary supply in September, lasting about a month, but the greenish tinge of this lily makes it much inferior to Harrisii for any kind of cut flower work.

In order, however, to have the best results with Harrisii I think a good quality of bulb is necessary. A 7 to 9-inch bulb properly handled has more vitality than a smaller one and will produce accordingly: larger bulbs still better.

Thus it will be seen how easy it is to have white lilies all the year round, the old but still useful calla filling up the gap in the winter months till Harrisii begins again.

This method may not be as useful to the big grower as to the small or retail grower who handles only from 500 to 1,000 bulbs. To those who have not tried it I say, don't waste your bulbs. Give this plan a fair trial and you will be satisfied with results. The only cause of failure will be a scant supply of water at the time when it is most needed.

E. FRYER.



Seasonable Notes.

The season is now fast approaching when we may hope to get more and brighter sunshine than we have had during some parts of December at least, and as the plants will be increasing in size so will their feeding abilities increase. Where they are healthy and growing freely they can from this on be treated to a little liquid manure, but it is much safer to have it a little too weak rather than too strong, particularly thus early in the season. A fair proportion would be about a 12-inch pot full of fresh cow manure to 50 gallons of water. Let it be well stirred up and allowed to settle at least 30 to 36 hours before using. For other manures a somewhat larger or smaller quantity, for instance, with horse manure a somewhat larger proportion will be beneficial, while if sheep or chicken manure is to be used a much smaller quantity will answer the same purpose.

Continue to keep all dead leaves, weeds, etc. removed and occasionally rub the surface of the soil over to keep it healthy and allow air to pass freely through it; and where the mulching put on some time since has become nearly or quite absorbed by the roots another thin mulching should be put on, but it is certainly much safer to apply it not more than an average of half to three quarters of an inch thick than to put on a heavier dressing at one time.

Watering, syringing, etc. will now begin to call for closer attention than during dull cloudy weather, because if neglected red spider and its kindred evils will begin to show itself and if once allowed to get a foothold will be very hard to check. Give all the air possible on every favorable occasion, and do not let the night temperatures exceed 56° except on very mild nights, but with an abundance of air on during the day the temperature may be allowed to run up to 80° without causing any trouble whatever, but it should never exceed 66° or 68° without air being put on, otherwise the color of the flowers suffers and the growths will be proportionately weak.

For hybrids required to start from now till March it will take from 12 to 14 weeks to get them into bloom. For such varieties as Jacqueminot, Magna Charta and other early or medium early blooming varieties, 12 weeks will generally produce fine flowers, but such varieties as Baroness, etc., will require 14 weeks to produce really fine flowers; after the middle of March they will come in in a week to ten days less time.

Where growers contemplate raising their own stock for next season they should now prepare the propagating beds for same, and select only good clean healthy wood for cuttings and never cut a plant so hard as to weaken its growth, otherwise the result will be very detrimental to the following crops. Do not attempt to root rose cuttings in a much higher temperature than that in which they have been growing, otherwise you will get weak plants which will take months to grow into healthy vigorous stock.

JOHN N. MAY.

NEW ROSE THE HUGH.—A new rose, which originated with Mr. Frank L. Moore, Chatham, N. J., and which he has christened "The Hugh," is a sport from the Mermet. It is deeper in color than the Mermet and is said to retain its color in the darkest winter weather. It will, we understand, be introduced to commerce some time this year.

Begonia Fulgens.

Here comes Lemoine at us again with another sweet scented begonia, and judging from the description of its bright colored sweet scented flowers borne erect, dwarf, spreading compact habit, long duration of flowering season, make this a very desirable plant to say nothing of its probable usefulness to the hybridizer.

I give you M. Lemoine's description. "The plant was found with B. Baumanni in the mountainous regions of Bolivia near the Peruvian frontier not far from the place where B. Davisi grows in abundance. It is a tuberous species with leaves of medium size, orbiculate, sea green and in their early development covered with a rose colored down that gives them a velvety appearance. The main stalks are rather short, giving the plant a semblance of producing the flower stems directly from the tuber, forming a low compact plant with a large number of erect flower stalks. The peduncles are bronze-red, each bearing from 5 to 10 flowers, erect and rising about 8 inches above leaves. The pistillate flowers are about three inches in diameter and have four petals of a brilliant raspberry-red much deeper on the borders. The staminate flowers are more numerous and higher colored having five or six petals. During the morning the flowers give out a delicate perfume resembling the odor of the tea rose. This is an extremely floriferous plant of dwarfish spreading habit throwing up a succession of erect flower stems. It continues to flower through the summer until the frost comes and its brilliant masses of dazzling red are impossible to describe."

F. J. MEECH.

Removing Old Bulbs from Orchids.

In reply to H. E. S. regarding the removal of old bulbs from orchids, I never remove old healthy bulbs unless from such varieties as cœlogynes, etc., when overcrowding. As for dendrobiums, they are left on as long as healthy unless a few bulbs are wanted for propagation. G. McW.



Carnation Notes.

I send a few notes on my experience with carnations.

Last year I tried thirty varieties and selected from the lot those giving the best results. I am now flowering 4,000 plants of the following varieties: Hinze's White, Silver Spray, Lizzie McGowan, Portia, Philadelphia, Alegatiere, Grace Wilder, Century, Fred Creighton, Anna Webb, Lamborn and Louise Porsch. Their relative merits and requirements as they appear here are as follows:

Propagating: To insure good results before the holidays Hinze's White should be struck at least five or six weeks earlier than any others in order to have them in at the same time; Century about three weeks earlier than the others. I have some Silver Sprays, Alegatieres and Philadelphias doing nicely that were taken from the sand and dibbled out where they were to grow during the summer, and I judge Lizzie McGowan would do about the same. Of course I do not recommend doing this.

Soil: Hinze's White does best in a heavy soil, Century in a very light soil, and the others in a soil of medium weight.

Temperature: Hinze's White and Philadelphia do best in nearly a rose heat. Alegatiere requires the coolest treatment of all.

Water: Alegatiere and Philadelphia require much the most; Century and Wilder the least.

Productiveness: In whites, from September to July I place Hinze's White first, but for best results to February 1 I rely on Silver Spray, Lizzie McGowan and Lamborn; about equal thus far; can give results better later on. In reds, Alegatiere gives me the best results, with Portia and Philadelphia nearly equal. In pinks, Wilder stands first and Fred. Creighton second. For a dark one I still cling to Anna Webb. In yellows, Louise Porsch.

Later will give you the number of flowers cut each month from each variety, from the record I am keeping.

W. D. LANE.

WHO WOULD have thought that there were as many as 300 varieties of carnations in commerce in America. Still that is the number in the list of carnations now being put into type for our new directory and reference book. We believe this list will be of very great value. In nearly every case, in addition to a brief description we give the year of introduction, which adds very materially to the value of the list for reference. Much of the work of compilation was done by Mr. Edwin Lonsdale, while Mr. John Thorpe gave invaluable assistance in supplying many of the dates at which the varieties were introduced to commerce. And what a walking reference book Mr. Thorpe is! Many of the carnations listed are his own seedlings and it is not surprising that he should recollect the year in which they were introduced, but that he should be able to recall with nearly equal facility the dates at which all other seedlings of promise were introduced shows how



THE UMBRELLA TREE.

closely he has watched events in this field and how retentive a memory he has for all matters connected with floriculture.

The Umbrella Tree.

Our illustration represents a very beautiful specimen of the Umbrella China Tree (Melia Azedarach var. umbraculifera).

The China tree, or Pride of India, as it is sometimes called, is a common shade tree in the southern states, especially in towns and cities, and it also is widely grown in the West Indies and southern Europe. As its name implies it is of Asiatic origin, but it now is widely naturalized wherever grown in this country. It is not hardy in the northern states.

It belongs to the same family of plants as does the mahogany and although not a tree of great proportions, seldom attaining a height of more than 40 feet, it is very fast growing and it is easily raised from seed. The common China tree has rather an open habit, but the form here illustrated and known as the Umbrella China tree has an exceedingly dense head and not only is it the most desirable of all melias as a shade tree, but one of the best shade trees of any kind. It originated in Texas and is often known as the Texas Umbrella tree.

Apart from these melias being fine shade trees they are exceedingly free blooming, bearing large panicles of fragrant lilac colored flowers early in spring. One variety in particular, namely, floribunda, is highly desirable for its flowers. It is of somewhat dwarf, compact form and its flowers are larger and whiter than those of the common China tree and it blooms when quite small, indeed it is often grown as a pot plant in northern conservatories, where its delightfully fragrant flowers are much esteemed. They are of no use for cutting, however, as they wilt so soon after being severed from the plants.

The foliage is smooth, deep green, twice pinnate, ovate and pointed toothed leaflets and is quite suggestive of the leaves of Kœlreuteria paniculata.

Boston.

The January meeting of the Gardeners' and Florists' Club was very fully attended, it having been announced that Prof. G. L. Goodale, of Harvard Botanic Garden, would speak to the club on that evening. It was therefore a great disappointment when at the opening of the meeting it was learned that Prof. Goodale was unable to be present, on account of sickness. He had, however, provided a substitute in the person of Prof. W. F. Ganong, an instructor in botany at Harvard University and pupil of Prof. Goodale, who had kindly consented to address the club on the subject of "Hybridization and Selection."

Prof. Ganong gave a most interesting talk and held the attention of his audience closely all through. His lecture showed him to be a student thoroughly devoted to his chosen line of study. He began by disclaiming any pretense to knowledge acquired from practical experience and confined his remarks throughout to a presentation of the different opinions held by leading botanical authorities on the subject of variations and the utilization of variations in the vegetable world, the difficulties which are constantly met in experimenting on these lines and the results which it is hoped to accomplish eventually.

Cultivation he described as: first, keeping away from a plant its natural enemies; second, supplying necessary light, space and food; third, and most important, the utilization of variations. The horticulturist attempts to put a plant under the most favorable conditions for development. As a rule plants in nature are not under the best conditions. They are not always in the most favorable situation and are under the strain of constant competition with their own and other species.

Variations he classed under three heads. First, normal; second, true monstrosities, which as a rule can not be perpetuated; third, variations known as sports and which as a rule can be perpetuated.

Speaking of normal variations he said that no botanist doubts that every species is developed or evolved from pre-existing species. This evolution has been brought about mainly by the selection of varieties, but the exact nature of this selection is not known. Whether definite variations, that is, the unlikeness of parent and offspring, have a tendency to move in certain fixed lines or are accidental and occur in all directions are questions which have within a few years been actively discussed and received increased attention from scientists and botanists, and experiments are being carried on extensively all the time.

What is the influence of surroundings and environment; does the plant under certain conditions show a tendency to fit itself into those particular surroundings, transmitting to its offspring directly the character thus acquired, or do the variations occur accidentally with the result

that those varieties better fitted to the surroundings are preserved and those not fitted to the surroundings are thrown away? The investigations and experiments on these problems which are now being actively prosecuted in this country and in Europe can not fail to bring results in a few years which will be of primary importance in the improvement of cultivation.

On the subject of fertilization Prof. Ganong said that most plants can not exist many years in perfect health without an occasional cross. Within the limits of a given species crosses between the more widely differing varieties give healthier and better results. In some cases crosses are obtained between species and on rare occasions between distinct genera. Species is the result in nature of the intense struggle to survive made necessary by the long competition with other forms.

Referring to the frequent difficulty in determining species he stated that the only real test botanists have to determine species is the ability of the plants to cross. If they will not cross they as a rule belong to different species. Theoretically, the offspring of two varieties in the same species will be fertile, but the offspring from two different species will be barren. In the offspring the tendency is to reproduce equally the character of both parents, but the process is interfered with to a great extent. The wide range of variations in offspring gives the gardener and nature something to work on. Crossing should be done between forms as greatly separated as possible, but not so widely separated as to prevent fertility.

In reply to a question by Mr. Dawson as to whether the pollen plant or the seed parent had the greatest power over the cross, Prof. Ganong replied that the whole question of the transmission of character is still in a very unsettled state.

A vote of thanks was tendered to the lecturer.

A communication from the New York Florists' Club inviting the members of the Boston Club to attend their annual supper on January 11, was read by the secretary and a vote of thanks was extended to the New York Club for their courtesy.

At the opening meeting for the season of the Mass. Horticultural Society President Spooner read his annual address, which showed the society to be in excellent condition financially and otherwise and the various departments working together harmoniously. The most radical recommendations in his address were suggestions to the effect that the Rhododendron show which has been a free exhibition hitherto should be made of more importance and admittance charged; that the rose and strawberry show be made a free exhibition and that the annual exhibition of flowers and plants in September be made a free exhibition and of less magnitude than heretofore.

The profits on the chrysanthemum show aggregated more than the profits on all the other shows of the year combined and the only exhibition that showed a deficit as between receipts and operating expenses was the fruit and vegetable show in the fall.

Bearing the above in mind it is a somewhat peculiar fact that in the list of essays for the coming season which has just appeared no provision has been made for the presentation of any floral or kindred subject excepting one assignment late in the season, viz.: "The Ethics of Flowers," by Mrs. F. A. Deane of Edgartown. Two dates have been left blank and possibly those may be filled later by something to indicate that the society still recognizes floriculture as a department of its work. Perhaps the committee entrusted with the work of providing essayists has reached the limit of its resources. If so a new committee would be the proper move. The list of subjects as it now stands is as follows: "The System of Irrigation of the Nile Valley," "The New Orcharding," "Insects Injurious to Fruit," "Irrigation with Fresh Sewage," "Road Making and Maintenance," "Fruits to Preserve and How to Preserve Them," "Arbor Day in Schools," "The Effects of Heat" and "The Ethics of Flowers."

At the meeting of the society on Jan. 2 in response to communications from Chief Samuels of the Hort. Dep't of the World's Columbian Exposition a committee was appointed to take into consideration the subject of collective exhibits in that department. The report of that committee will be awaited with interest. The Massachusetts State Board of Managers has applied to the Chief of Horticulture at Chicago for 4,000 feet of space inside the Horticultural Hall and for 2,000 feet outside.

An effort will be made to have the amount of the state appropriation increased.

Thos. Greaves, gardener to E. W. Gilmore, North Easton, has a new variety of Cypripedium insigne which is very distinct and beautiful. The dorsal sepal is very large, beautifully undulated on the edge and margined with white all around. The brown markings are of a peculiar shade and are larger and more abundant than in any other variety and the violet markings on the white ground are also very distinct. The petals are prettily edged with yellow. The variety has been named Greavesiana and as such received a certificate of merit from the Mass. Hort. Society on Jan. 9. On the same date Mr. C. M. Atkinson exhibited a superb specimen plant of Cattleya Percivalliana bearing 42 blooms, for which he received a silver medal.

New York.

Roses, carnations, valley, hyacinths, in fact everything, is coming in more plentiful every day, but trade is quiet.

There have been several notable parties during the past week. The leading event was the wedding of Mrs. Marshall O. Roberts. The church was profusely decorated by Hodgson. At each end of the altar were masses of palms. Immediately in front of the chancel three large arches were raised, made of green, with large quantities of Watteville and Cusin roses. From the center of each arch drooped bunches of American Beauties. On the center of the marble altar was a mound of lily of the valley, flanked with pyramids of Bride roses. Overhead there were festoons of laurel.

At Mrs. Stuart's funeral on Monday, January 4, the arrangement of flowers by S. J. Burnham & Co. was exquisitely done. On each side of the door leading to the parlor was a large vase of orchids, a bowl of American Beauties was placed on the mantel, and large vases of callas filled the corners of the room. There were also some bowls of Cusin and Bride roses on tables and cabinets, the whole effect being very pleasing and appropriate, and a welcome change from the collections of designs usually seen on such occasions.

The floral decorations at the ladies' reception given by the Montauk Club at Brooklyn, on January 6, were under the supervision of John Condon. The decorations were very extensive and elaborate, the whole house from top to bottom being ornamented with flowers, vines and plants in great profusion.

The University of the City of New York and other scientific colleges in this vicinity are opposed to the plan whereby Columbia College would wield almost the entire control of the proposed Botanical Garden at Bronx Park. These other institutions all desire a representation in the board of management and to this effect will press an amendment in the state legislature to the act of last year providing for the establishment of the garden.

On new Years eve the employes of Mr. J. N. May, at Summit, N. J., went in a body to his office and there presented him with a very handsome ebony cane with a heavy gold head and his initials engraved thereon. It was a complete surprise to Mr. May, but he found the right words in which to express his thanks and was cheered to the echo. Those who know the very cordial relations existing between Mr. May and his men and his unselfish efforts for their mental and moral welfare at all times will all agree that no testimonial of the kind was ever more richly deserved or more heartily tendered.

Mr. J. McD. Gamewell of Hackensack is very low with pneumonia.

St. Louis.

We are experiencing the dull time that usually follows the holidays. The retail cut flower trade remains good, with prices as follows: La France, Mermets, Albanys, Brides, $3 per dozen; Perles, Niphetos, $1.50; Bon Silenes, $1; Wootons, Gontiers, $2; Beauties, $12; carnations, Romans, bouvardia, heliotrope, valley, freesia, paper whites, $1; camellias, mignonette, $2; violets 75 per 100. The above is for first class stuff. There is a continuous call for set work.

Mr. Waldbart, as most of the St. Louis florists know, goes in quite extensively for decorative plants. His long experience verifies that of others, in condemning many variegated foliage plants, when such are needed in places and under circumstances calculated to try their hardiness and susceptibility to rough treatment. In regard to bedding geraniums for this section, Mr. Waldbart recommends Marie Hill for pink, White Swan for white, and of course the old standby Queen of the West for general purposes, but thinks that Glory of St. Louis will finally supersede this old favorite, on account of the darker and more pleasing color of the flower.

Dracæna fragrans var. Lindeni is a grand decorative plant, but must not be kept too warm, for it is apt to temporarily lose its variegation if kept growing too rapidly.

A large plant of Acokanthera spectabilis (Toxicophlœa spectabilis) is in blossom at the Missouri Botanical Garden. This is the plant commonly known as wintersweet, and is a native of South Africa. Its bark is very poisonous. There are some points about it, however, that make it a very desirable plant, and worthy a place in every collection. Said points are as follows: First, it is a very free bloomer; second, the pure white flowers are in large compact clusters; third, the plant continues in blossom for a long time and at a season of the year when such flowers are very acceptable; fourth, the perfume is delightful and very strong;

fifth, the plant is easy to keep and propagate.

Other specimens now in blossom and worthy of notice are those of Astrapæa Wallichii, a native of Madagascar. When in full flower these plants, as we have them at the Garden, make a grand sight. They are usually in flower at Christmas with us, but this year are a little late. A plentiful supply of water must be given to insure success. Cuttings of young wood may be propagated in sand during April with heat. J. W. D.

Pittsburg.

Everybody was busy during the holidays; on the 23d and 24th there were not enough hours to do the work in. Flowers were in fair supply and everything sold. The express service was good on the railroads and flowers were promptly delivered, a great relief to the poor florists. Prices were a shade lower than the previous year, and flowers of better quality. In dollars and cents the increase over 1890 was probably 25 per cent. Loose flowers had the call. Holly sold remarkably well, also laurel and lycopodium wreathing. Churches were generally decorated, plants, evergreens and flowers being used as the taste of each committee suggested.

New Years developed an active demand, but nothing in comparison with Christmas. In this connection it would doubtless benefit your professional readers to have the views of some experienced hand as to the best system or plan for handling the extraordinary rush of orders at Christmas and Easter especially, to secure the proper care and handling of the flowers when received, their packing and delivery, with best plan to avoid neglect or oversight of orders received, etc.

Since the 1st trade has been steady and good, although no very large orders are floating around. M.

Trade at Christmas was very good, as every florist disposed of his stock. Harrisii lilies were plentiful and it seems every grower had a crop of them in bloom for the holidays. New Years trade was quite brisk and somewhat better than last year.

In the reports of our show published in your paper a matter was overlooked which I would like to see rectified. Ernst Ludwig, a member of the Florists' Club, received honorable mention for his exhibition of long stemmed chrysanthemums, which were the best blooms exhibited, but were not awarded any premium, as they were not entered, not being grown by him.

The club is making wonderful progress socially and particularly financially, as we have $1,000 in the treasury, a good showing for one year's existence. At the next meeting, Jan. 12, nomination of officers for this year takes place.

E. C. REINEMAN.

Cincinnati.

Jan. 9 being the night for the annual meeting and election of officers for the coming year of the Cincinnati Florists' Society caused the meeting to be a good one. The secretary made his report for the year and will say that we have made progress. Several new members have been added to the ranks and many good and useful papers have been read before the society. In my last report I failed to state that at our December meeting Mr. Theodore Bock of Hamilton, O., who is a member of the society, favored us with a paper entitled "Dieffenbachia Bausei." We, like all other societies, have lost some members, but shall try very hard during the coming year to get others to fill their places.

The following is a list of the officers elected for 1892: Pres't, Geo. Corbett, College Hill; 1st Vice-Pres't, John Rose, Rosebank; 2d Vice-Pres't, J. A. Peterson; Treas., R. Witterstaetter, Sedamsville; Sec'y, E. G. Gillett; executive committee, Fred Walz, R. J. Murphy and Wm. Bolia. Very little change was made, with the exception of vice-presidents.

After the election the coming chrysanthemum show was discussed at length and it now looks as if we would have no trouble in giving the citizens of Cincinnati and surrounding cities an opportunity to witness a grand enterprise, one that we shall feel proud of. Each and every member seems to be willing to put his shoulder to the wheel and help push this show to an overwhelming success. We already have our preliminary premium list and will mail a sample copy to any of our florist friends wishing same. Address all communications to E. G. Gillett, Sec'y, 134 Walnut street, Cincinnati, O.

The trade on cut flowers for the past week in our retail stores has been rather quiet. Wholesale trade has been good and the supply almost equal to the demand. Am. Beauties, Perles and carnations have been scarce and it will be at least two weeks before we shall have a supply of these flowers.

One of our florists has the contract for decorating a portion of Music Hall for "The Charity Ball" which will be given the latter part of this month and which promises to be the swell ball of the season. This will undoubtedly create a demand for flowers. E. G. GILLETT.

Chicago.

At the quarterly meeting of the Horticultural Society of Chicago last Saturday it was decided to go ahead with the spring exhibition if sufficient funds are secured to make up a satisfactory prize list. The proposal is to give the exhibition in the new conservatory at Lincoln Park and as no admission fee can be charged there will be no income. But certain gentlemen have signified their willingness to supply a share of the cash and everything now depends upon whether enough other liberal minded men can be found to make up a sufficient sum. It is estimated that $1,500 would probably be sufficient and that $2,000 would certainly be ample. It was the opinion of those who are in a position to know that while as satisfactory a display could not be made as would be possible with more time for preparation, still a really creditable show could be made from stock already in hand, and that it would be wise to make the attempt. It was also felt that the projected show would pave the way for annual spring exhibitions.

A very interesting feature of the meeting was an essay upon the pronunciation of botanical names by Mr. H. H. Hindshaw. He commended the pronouncing dictionary in the supplement to Nicholson's "Dictionary of Gardening" as a standard. Quite a discussion regarding the pronunciation of certain names followed the reading of the essay, during which there was considerable good natured badinage.

Eleven applicants were elected to membership in the society and a great deal of interest is being awakened among the amateurs of the city. Among those elected at this meeting was Mr. John Thorpe, Chief of the Floricultural Department of the World's Fair.

Toronto.

After the Christmas and New Years boom things appear to be a little dull and probably they are more or less so with different people; the cause is laid down to the want of sleighing (we are never at a loss for a cause for grumbling). Perhaps someone will wonder what that has to do with a florist's business. Well, good sleighing enables the farmers to get their grain to market, they come to the city with their families and pay off their back debts and spend more besides, the money circulates, people feel better and more inclined to indulge in luxuries. The lover sends a box of flowers to his onliest only one, the dude wants a bouttoniere at the opera, the matron treats herself to a plant or two for the dinner table or window, etc. And sleighing has arrived at last, there having been a considerable downfall of snow the last few day and the mercury in the thermometer is low withal.

In revising the constitution of the club the executive committee are examining the constitutions of 7 or 8 other clubs and have culled from them and their own all the points considered best and most suitable. The result promises to be an exceptionally clear, concise and workable set of articles. The New York club are to be complimented on their constitution and that was taken as a basis. I think when the committee get through that the Toronto club will have a model that other clubs would do well to copy.

Mr. J. H. Dunlop leaves for Washington on the 10th. He will take in the annual dinner of the New York club on his way.

Milwaukee.

Flowers are scarce, especially white. Prices remain high. The supply does not equal the demand and orders are constantly refused. A Chicago firm has raised a rumpus by circulating a price list quoting flowers at summer rates, a strange freak the object of which is difficult to understand. Violets are quite scarce. Freesias and daffodils have made their appearance, also some fine Harrisii lilies, the latter seem to be crowding the calla out of market. Good carnations sell well and the supply is not what it should be. Milwaukee is exceptionally weak on this flower.

Ben Gregory had a narrow escape from fire, losing a new barn and some valuable contents. One side of greenhouse and dwelling were scorched, but on the whole he was fortunate not to have lost more. Building was insured. The Florist Club is making preparations for its annual ball, February 9. Geo. W. Ringrose and family leave September 1 for a six months trip through Europe. Wm. Edleisen leaves for Germany about the same time.

WE HAVE ADDED two more new features to our forthcoming trade directory and reference book. They are lists of leading Park and Cemetery Superintendents of America. We believe that these lists will be a great convenience to the trade in many ways. We shall also give a list of Botanic Gardens in America.

WHEN writing to advertisers please mention the fact that you were induced to write by the advertisement in the AMERICAN FLORIST. You will benefit us by letting advertisers know that it is the FLORIST that is bringing them trade.

OBITUARY.

JAMES TAPLIN died at his home in Maywood, N. J., last Saturday night, of pneumonia. Mr. Taplin has long been widely known as a plantsman of rare ability and the news of his death will be received with sorrow by a host of friends on both sides of the Atlantic.

We are indebted to Mr. John Thorpe for the following regarding Mr. Taplin's life:

"James Taplin was born at Ludlow in Shropshire, England, his father being gardener at the famous Ludlow Castle at the time. I remember his father saying many years ago that James was a gardener born and bred, as he has since so faithfully exemplified.

"He left home early and passed from place to place, in the best schools of horticulture, and there is no branch, whether fruit, flowers, vegetables or plants, in which he did not excel. After such an education he occupied the very highest pinnacle, as gardener to the Duke of Devonshire at the famous Chatsworth, and he filled the position with satisfaction and credit.

"As an exhibitor of plants and fruits in the palmy days of the Royal Hort. Society his achievements were such that the society voted him their highest medal for the good work he had done.

"It was at Chatsworth Mr. George Such first met him and from there he came to South Amboy, N. J. This brings us to the famous collection of plants there brought together, a collection that was heralded from end to end of the country as unique, not only in variety but as a masterpiece of cultivation.

"The magnificent display of plants made by Mr. Such at the Centennial at Philadelphia, Mr. W. Robinson says, saved the Horticultural Department from ignominy.

"Mr. Taplin bought the property at Maywood about 14 years ago, since which time he has given further evidence of his talents. The many fine exhibitions made by him in New York are still fresh in the memories of us all. He was a correspondent of the English *Garden* and *Gardeners' Chronicle*. Everybody knew him as a good companion and many as the truest of friends. He leaves a widow, two sons and two daughters."

Both sons are known to our readers as regular correspondents of the FLORIST, and his daughter, Mrs. Emily Taplin Royle, was for several years our New York correspondent.

News Notes.

MADISON, N. J.—Mr. J. Callahan succeeds Mr. L. G. Forbes as foreman for Mr. W. P. Wight.

BROOKLYN, N. Y.—Julius J. Heinrich, of 121 Court street, has made an assignment to Wm. T. Lee.

DOVER, N. H.—Chas. L. Howe has in process of erection at present a range of about 4,000 feet of glass.

TOUGHKENAMON, PA.—Isaac Larkin has been confined to the house with the grip for the past two weeks.

NYACK, N. Y.—The past summer A. Deloit built two 100-foot rose houses and two 90-foot violet houses.

LITTLE ROCK, ARK.—The annual meeting of the Arkansas State Hort. Society will be held in this city Jan. 20.

HIAWATHA, KANS.—Margrave & Ward added two new houses the past season, one 48x20 and the other 50x16.

FLINT, MICH.—D. P. Smith has succeeded Smith & Evans, and catalogues should be addressed to the former only.

LOS ANGELES, CAL.—Macleod & Denham have succeeded the Macleod Seed and Produce Co. at 245 South Main St.

MONTCLAIR, N. J.—The Chesney Flower Company has succeeded Mr. Robert Chesney, and will conduct business on Bloomfield avenue.

ERIE, PA.—Henry A. Niemeyer has built three new houses, of which two are 100x22 each and one 100x10. Wm. Niemeyer has opened a new store down town.

SAN JOSE, CAL.—The Standard Nursery Co. has been incorporated with a capital stock of $50,000. The directors for the first year are F. F. Briton, J. E. Boynton, W. G. Hawley, H. H. Hunting and W. C. Anderson.

READING, MASS.—W. H. Proctor has just finished glazing a new house 102x16 and has another of the same size in course of erection. Will heat with steam. Chas. Ingram, formerly of McGregor & Ingram, is foreman here.

AMHERST, MASS.—The new Hatch experiment station building at the Mass. Agricultural College, which is being erected on the site of the one destroyed by fire last winter, is nearly finished. When completed it will be one of the best equipped of the kind in the country.

ERIE, PA.—At a meeting of the executive committee of the Erie Chrysanthemum Club it was decided to change the name of the organization to Erie Chrysanthemum and Horticultural Society of Northwestern Pennsylvania. Mr. D. A. Hendrick was elected president and Mr. Henry Hausmann treasurer.

NEW LONDON, CONN.—Mr. John Spalding has been confined to the house with the fashionable epidemic since Christmas, but is convalescing. La Grippe is no respecter of persons in New London. Young and old, rich and poor all fare the same. The type is not so fatal as that of 1890, but it gets there just the same.

NEW CASTLE, PA.—Christmas trade in cut flowers was unusually heavy, the call being almost entirely for loose flowers. Prices were but little higher than regular rates, which seemed very satisfactory to buyers. Roses were first in demand, carnations second, then Roman hyacinths. The trade in greens was light, no doubt owing to the very mild weather.

ALLEGAN, MICH.—The annual meeting of the Michigan State Hort. Society was held here last month. Among the essays was a very interesting one on "What the Department of Agriculture is doing for Horticulture," by W. A. Taylor of the Department. The society aims to show a peach orchard at the World's Fair and preparations for this are now in progress.

FRANKFORT, KY.—Christmas trade was much larger than that of last year. Sales mainly Mermet, Bride and Perle roses, carnations, narcissus, Roman hyacinths, poinsettias, smilax and holly. My customers ask me if I have American Beauty roses. I tell them no, that they are too expensive. And when I tell them the price is $15 a dozen that settles it, they don't want any.

LITTLE ROCK, ARK.—Holiday trade was fair only. The demand was, however, equal to the supply. Our roses were off crop, owing to the previous good weather. Prices were lower than last year. We made no change in price of roses and with quite a lot of funeral work a few days before Christmas it could be said stock was a little scarce. The cut flower trade in this city is growing better each year.

OTTAWA, ONT.—We have had large additions in florists' establishments the past year. Mr. I. Graham has built two houses 100 by 18 feet; Mr. French has also added two of the same dimensions and rented them to a Mr. Parks; Mr. Tyndall has also started a florist store, his supply will be largely from outside, as I understand his glass is very limited. We have only had one florist here until now. These new additions will no doubt increase the demand.

LOUISVILLE, KY.—F. Walker & Co. have suffered a loss of a peculiar nature. Their place was broken into and apparently nothing taken but some bill heads. But later on it transpired that the thieves had examined the firm's books and made memorandums of the accounts due them from customers, and subsequently presented bills made out by themselves. They succeeded in collecting quite a number of the bills, the total amount, as near as can be ascertained at present, being about $300.

NEW BEDFORD, MASS.—Floral Day was observed by the South Bristol Farmers' Club at its fortnightly meeting on Jan. 2. The hall was tastefully decorated by F. H. Passell, and matters of interest to amateur and professional florists were discussed. Papers were read by Miss Betsey Winslow on "Grasses," Mr. E. Williams Hervey on "Botany," and Mr. F. H. Passell on the care of house plants. Mr. J. G. Barker, superintendent of Forest Hills Cemetery, Boston, also addressed the meeting on the subject of window gardening.

PEORIA, ILL.—The holiday trade this year was fully up to the expectation. Everything came with a rush. Trade on green and holly far ahead of last year. The robbing prices on roses damaged the rose trade. Carnations, narcissus and Romans sold like hot cakes and fully took the place of roses. Begonias, callas, Bermudas, poinsettias, palms and all choice, well grown plants found a ready sale at good prices. The demand for colored flowers, especially red carnations and roses, seemed to be the rage. New Years trade was good and trade since the holidays has been quite brisk.

Coming Exhibitions

Buffalo, Feb. 16—Annual exhibition and meeting American Carnation Society. C. J. Pennock, S c'y, Kennett Square, Pa.
Philadelphia, March 29-April 1—Spring exhibition Penna. Hort. Society. D. D. L. Farson, Sec'y Horticultural Hall, Broad St.

THE World's Fair management is distributing 1,000 of the handsome new lithographs of the horticultural building to horticultural societies all over the world.

AMONG THE calendars for 1892 recently received one from Messrs. L. Templin & Son, Calla, O., is strikingly attractive. One received from E. C. Ludwig, Allegheny, Pa., is also worthy of special note.

CHAS. A. KELLER, for the past three years professor of horticulture in the South Dakota Agricultural College at Brookings, has just accepted a similar position in the Missouri State University at Columbia.

THE American Carnation Society.

ORGANIZED 1891.

Annual meeting, Buffalo, N. Y., Third Tuesday in February, 1892.

DEVOTED TO THE IMPROVEMENT OF THE CARNATION.

ANNUAL MEMBERSHIP FEE, $2.00.

Send your name and address to

C. J. PENNOCK, SEC'Y, Kennett Square, Chester Co., Pa.

And remit Postal Note for $2 00 to

C. W. WARD, TREAS., East Moriches, N. Y.

CARNATION GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "DORINDA," a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

R. T. LOMBARD, WAYLAND, MASS.

AURORA.

Winner of the Ladenburg Cup for best pink

CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

Send for general price list.

EDW. SWAYNE, Carnationist, KENNETT SQUARE, PA.

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN, besides the best novelties and a full list of standard sorts.

C. J. PENNOCK, THE PINES. KENNETT SQUARE, PA.

ROOTED CUTTINGS OF CARNATIONS

Nice, healthy Rooted Cuttings of Carnations of all the leading and newer sorts, in any quantity after Dec. 10th. Orders received for future delivery at 10 per cent. discount from price list. Correspondence solicited.

JOSEPH RENARD, Unionville, Chester Co., Pa.

Carnation Cuttings.

NEW AND STANDARD SORTS.

SEND FOR PRICE LIST.

WM. SWAYNE, P. O. Box 226. KENNETT SQUARE, PA.

DON'T

order your Carnations until you send for our list and see what we have to offer in the new and standard varieties, including DAYBREAK.

GEO. HANCOCK, Grand Haven, Mich.

Always mention the AMERICAN FLORIST when writing to advertisers.

ROOTED CUTTINGS.

Descriptive Price List now ready.

Not all the Carnations that grow, but the cream of those that are worth growing. The same is true of Coleus, Geraniums and other stock.

This list will be sent to all those who received my descriptive list without application, and to others who apply.

ALBERT M. HERR, LANCASTER, PA.

The New Carnations. ROOTED CUTTINGS.

INTRODUCERS' STOCK OF

GOLDEN TRIUMPH, PEARL, AURORA, THOS. CARTLEDGE, PURITAN, GRACE DARLING, CRIMSON CORONET, PEACHBLOW CORONET.

—— BEST VARIETIES OF LAST SEASON AND STANDARD SORTS. ——

Lizzie McGowan, Hector, Mrs. Fisher, Golden Gate, Fred Creighton and other good ones in any quantity.

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30 varieties CARNATIONS. 36 varieties COLEUS. Best bedding GERANIUMS.

ALEX. McBRIDE, Alplaus, N. Y.

PURITAN.

NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:

Rooted Cuttings.....$8 per 100; $70 per 1000
From 2¼-inch pots, $12 per 100; $100 per 1,000.

Send for catalogue with full description of this and other varieties

WOOD BROTHERS, Fishkill, N. Y.

YOUR

Trade price list for the Spring of 1892 will go to every florist, nurseryman and seedsman in North America if placed in the advertising pages of the special

SPRING

Number of the AMERICAN FLORIST, to be issued March 10, and it will cost a good deal less money than a list printed and mailed by you. To reach the whole

TRADE

The postage on a list mailed by you would alone be twice as much as our whole bill for printing and mailing. And when printed in the pages of the FLORIST your

LIST

Is sure to be preserved and escape the waste basket, which is a great advantage these days when trade lists are scattered around so thickly. Your list in a full page of the FLORIST will cost only $42; in a half-page, only $21. We can save you money and give you better service.

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THE LEADING NEW PINK CARNATION of '92.

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A FULL LIST OF CHOICE SORTS,

Tested Novelties and Prize Varieties

NOW READY.

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25,000 ROOTED CUTTINGS CARNATIONS

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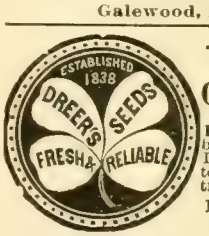
New and Standard sorts, all grown from fine healthy stock. Send for price list.

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CARNATION CUTTINGS.

Grace Wilder, Silver Spray, Garfield, Alegatiere, Snowball, Snowdon, Grace Farden, all at 75c. per 100.

OTTO HANSEN, Galewood, Mont Clare P. O. Ill.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

EXTRA PANSY SEED.

Mammoth Sunbeam Strain.

A grand collection of giant flowering varieties; flowers measure 2½ to 3 inches in diameter, of perfect form and finest colors. Be sure to sow of it. Liberal trade pkt. 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

SHADING.—A western subscriber notes the objections to whitewash on the glass as a shading and suggests a curtain of duck so arranged on rollers as to be put over and removed from the glass at will. This plan is not new and would undoubtedly be more generally followed except for the expense. Our correspondent notes that such a covering would be useful to let down over the glass on cold nights also, but fails to say how he would anchor it to keep the wind from carrying it away, and on other than windy nights it would be but little needed. Neither does he say how he would roll it up when frozen stiff and covered with snow and ice, and if he waited for the sun to thaw it out he would lose a great deal of valuable sunshine; again the sun might not show his face the next morning and his greenhouses would be as dark as tunnels. But enough of objections. We state them merely that plans for overcoming them may be formulated, for one of the things that we really need, especially for the spring months, is a shade that can be put on and taken off at will. But it must be simple and cheap as well as effective. Who will suggest something in this line?

UNDER the title "Floral Vulgarity" the San Francisco *Chronicle* pays its respects to those florists who exhibit the sense of the artisan rather than that of the artist. And we must agree with the *Chronicle* that the "designs" illustrated, viz.: a wagon filled with beer barrels and a corset with a wreath above, constructed by some "inspired" artisan to serve as "appropriate emblems" at the funerals of a brewer and a manufacturer of corsets, were truly awful. Another "design" illustrated is "The market woman of Hamburg." And after noting "the outrageous caricature of the human form" we are told that the eyes were black shoe buttons. The *Chronicle* has interviewed florists regarding these monstrosities and in response to their explanations that while they do not indorse such things they are obliged to meet a demand for them, it warns them that they must call a halt and take effective steps to discourage such orders or find themselves obliged to bear the odium of such transgressions.

WE HOPED to have the new directory out by this time, but though part of the list is now in type it bids fair to be ten days more before we can put it on the press. The book is much larger than the issue of 1890 and it has taken much more time to get the matter in shape for the printer and then into type. As the advertising pages will be printed last there is still chance for you to secure space for your card if you have not already done so. But the time is very short and order should be sent at once.

Catalogues Received.

R. T. Lombard, Wayland, Mass., carnations and chrysanthemums; Edward Swayne, Kennett Square, Pa., carnations; C. J. Pennock, Kennett Square, Pa., carnations; Oscar H. Will, Bismarck, N. D., seeds; C. G. Lescano, Hempstead, N. Y., bulbs and seeds; Roustan Servan & Co., St.-Remy-De-Provence, France, seeds; E. H. Krelage & Son, Haarlem, Holland, pæonias; Ls Van Driessche, Ledeberg, Ghent, Belgium, begonias and gloxinias; R. H. Shumway, Rockford, Ill., seeds; Albert Duebendorfer, Black River Falls, Wis., roses and palms; T. H. Spaulding, Orange, N. J., chrysanthemums; Jos. F. Dickmann, St. Louis, seeds; John F. Rupp, Shiremanstown, Pa., seeds; W. L. Smith, Aurora, Ill., plants; Geo. C. Roeding, Fresno, Cal., nursery stock and plants; Wm. Toole, Baraboo, Wis., pansies; Fred W. Kelsey, New York, fine nursery stock; J. C. Suffern, Voorhies, Ill, seeds; J. M. Thorburn & Co., New York, seeds; Webster & Co., Centralia, Ill., nursery stock; F. B. Mills, Rose Hill, N. Y., seeds; A. Blanc, Philadelphia, electrotypes of plants and flowers: W. R. Shelmire, Avondale, Pa., carnations; James Veitch & Sons, London, England, plants; J. M. Thorburn & Co., New York, seeds; J. M. Ogle, Puyallup, Wash., nursery stock and plants; Geo. Hancock, Grand Haven, Mich., carnations; John McGowan, Orange, N. J., plants; E. W. Skelton, Avondale, Pa., carnations; Felix Gonzalez & Co., San Francisco, Japanese bulbs and plants; Wood Bros., Fishkill, N. Y., plants.

Packing Orchid Flowers.

As the orchid season will soon be at its height the following system of packing as practised in France may prove interesting and helpful to some of the readers of the FLORIST.

We used to cut the flowers late in the afternoon. For packing we used flat boxes made of light wood, 18 inches or more in length, 11 inches wide and 3½ inches high, inside measure.

The method of packing is as follows: A rather thick piece of cotton batting is laid on the bottom of the box, this cotton then covered with tissue paper. Then the spikes and long stemmed flowers are laid in the box, so that all the stems are running the same direction. The flowers must not be too much crowded. Little round sticks, wrapped in tissue paper, are pressed tightly down across the flower stems. These sticks must be just a little longer than the inside width of the box, so they cannot move when pressed in the box. As only flower spikes and long stemmed flowers are laid on the bottom every stem is kept down by 2 or 3 of these little sticks. The utmost care must be taken when filling the box not to break or bend any petals or sepals. Every flower must be faced toward the cover of the box. This is very easy to do when handling single long stemmed flowers such as cypripediums, lycastes, some of the cattleyas and most of the masdevallias, but long spikes such as phalænopsis, vandas, oncidiums and odontoglossums make more trouble, especially when very strong spikes have side branches or when the spikes are thickly covered with flowers. One must be extremely careful when laying the little sticks between the flowers across the stems. After the packing is done so far lift the box over your head, turn it upside down and shake it. If by doing this any of the flowers are misplaced a piece of string, or better, raffia, is laid across the loose stem and tied to the two next cross sticks.

All the short stemmed orchid flowers are packed in the following manner: A little bit of wet sphagnum moss is tied around the end of the short stem, then the stems are tied with raffia to the same kind of sticks, wrapped with tissue paper, as are used to keep the flowers down on the bottom of the box. These sticks, with the short stemmed flowers tied around, are placed in the box above the other flowers. They should fit tightly in the box, but it is well to drive a little tack from outside through the box in these sticks to keep them sure in their places. As the boxes used for packing are very flat the flowers must be tied only to one side of the sticks. When placed in the box they all are faced toward the bottom of the box and cannot be pressed or touched by the cover.

Some flower spikes which are covered thickly with flowers all around, for instance ærides, are tied also to sticks and packed the same way as the short stemmed flowers.

Many other rare and expensive flowers like anthuriums, gardenias and lapagerias are packed in the same way.

In winter the boxes must be wrapped in a thick cover of cotton to prevent the flowers being touched by frost.

Rochester, N. Y. GUS NOACK.

E. H.—Yes, carnation flowers could be made a profitable crop under the circumstances you name, but the product would have to be of first quality to insure satisfactory returns.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

REMOVAL.

BURNS & RAYNOR,

Wholesale Florists,

HAVE REMOVED TO

49 West 28th Street, NEW YORK,

where they will have larger store space and better facilities for their rapidly increasing business. Their method of **Shipping Roses** has given them a large out of town trade and for good flowers, especially **Beauties** and **extra choice Roses** the above address is **Recognized Headquarters.**

Please mention American Florist.

FLORAL DESIGNS,

The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.
Mention American Florist

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price-list write for same.
WIRE WORK A SPECIALTY.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

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GROWERS OF CUT FLOWERS.
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SPECIALTY.—Filling Telegraphic Orders.
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A complete line of Wire Designs.

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4TH & WALNUT STREETS,
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Adiantum Farleyense.
CUT FRONDS SPECIALLY CHARGED WITH MOISTURE.
Will stand several days' travelling without injury. Sizes from 6 inches to 24 inches. Prices according to size.
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(Successor to C. E. & S. S PENNOCK.)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

Wholesale Markets.

Cut Flowers.

BOSTON, Jan. 12.	
Roses, Bon Silene	4.00@ 6.00
" Gontier	6.00@ 8.00
" Niphetos	8.00
" Perles, Sunsets	8.00@10.00
" Mermets, Brides	12.00@15.00
" Waban	10.00@12.00
" Beauty	100.00
Carnations	2.00@ 3.00
Violets	1.25@ 1.50
Valley	6.00
Hyacinths, Narcissus	4.00
Tulips	6.00
Mignonette, Freesia	3.00
Harrisii, Callas	16.00
Smilax	12.50
Adiantums	1.50
NEW YORK, Jan. 12.	
Roses, Bon Silene	3.00
" Perles, Niphetos, Sunsets	3.00@ 5.00
" Gontiers	5.00
" Mermets, Brides	8.00@10.00
" Cusins, Watteviles	8.00@10.00
" Hostes	6.00@10.00
" Bennetts	4.00@ 8.00
" La France, Albanys	8.00@15.00
" Beauties	25.00@75.00
" Jacques	25.00@35.00
" Hybrids	25.00@50.00
Carnations	1.50@ 2.00
Smilax	20.00
Mignonette	2.00
Romans, Narcissus	2.00@ 4.00
Valley	5.00@ 6.00
Tulips	4.00
Harrisii Lilies	15.00@20.00
Violets	1.50@ 2.00
Adiantums	2.00
Lilac, per bunch	1.50
PHILADELPHIA, Jan. 12.	
Roses, Brunners	50.00@60.00
" Laings, Magnas	40.00@50.00
" Beauties	30.00@40.00
" La France, Albany	10.00@12.00
" Mermets, Brides, Bennetts	10.00@12.00
" Cusins, Watteville	8.00@10.00
" Perles, Niphetos	5.00@ 6.00
" Gontiers	4.00@ 6.00
Valley	4.00
Carnations	2.00
" Wilders	2.00@ 3.00
Mignonette	2.00@ 4.00
Freesia	2.00
Romans	1.50@ 4.00
Trumpet major narcissus	4.00
Jonquils	2.00
Violets	1.00
Smilax	15.00
CHICAGO, Jan. 12.	
Roses, Am. Beauties	20.00@35.00
" Mermets, La France	10.00@14.00
" Albany	12.00@15.00
" Bennetts, Dukes	10.00@15.00
" Perle, Niphetos	7.00@10.00
" Gontiers	5.00@ 7.00
Carnations, short	1.50@ 2.00
" long	2.00@ 2.50
Romans, Valley	3.00@ 5.00
Narcissus	4.00@ 5.00
Callas	15.00@18.00
Violets	1.50@ 2.50
Smilax	15.00@18.00
Adiantums	1.25@ 1.50

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Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

CUT SMILAX
Over ¼ acre solid beds. First-class quality, 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.
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EDWARD C. HORAN,
Wholesale Florist
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

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FLORIST
32 West 30th Street,
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ROSES SHIPPED TO ALL POINTS.
Price List on Application.

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LA ROCHE & STAHL
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13th and Chestnut Sts.,
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HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

YOU MAY THINK
you know all about it, but do you? The use of LONG'S FLORAL PHOTOGRAPHS while taking orders of your customers will do more for you over and again than you might think. A trial is convincing to any enterprising florist. Circular list with prices, free.
DAN'L B. LONG, Florist,
BUFFALO, N. Y.
Mention American Florist.

CARNATION BLOOMS.
IN FANCY COLORS—LONG STEMS.
I solicit standing orders from florists and others throughout the country, as I make a specialty of shipping them long distances safely by express.
WANTED! 50 plants or more of Scented Geranium London Blue. Mail sample plant or foliage with price, to the undersigned.
CHAS. T. STARR, Florist, Avondale, Chester Co., Pa.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

"FARMER" Samuel Allen is out with a very handsome catalogue of Planet Jr. goods for 1892.

MR. JOHN A. SALZER is very ill from the result of a stroke of paralysis suffered some three weeks since.

MR. A. BLANC of Philadelphia, the eminent horticulturist, pronounces the new Picture Rock Tomato the finest he has ever seen and says that specimens of it in his office kept for three or four weeks before showing signs of decay, and this, too, during the hot summer weather.—*Mayflower for Jan'y.*

THE UNIVERSITY of California Agricultural Experiment Station in bulletin No. 5 are offering seeds, roots and tubers of new or rare plants at from 3 to 10 cents per root or package. It would seem that such distributions should be freer or else made at such a price as not to conflict with any legitimate offer made or which might be made by dealers in such stock.

The "Crown of Thorns."

The *Rural New Yorker* of January 2 has something further to say in regard to misrepresentations in seed and plant catalogues and alludes to a Kansas law passed in 1886 in regard to misrepresentation and deception in the sale of trees and plants. Referring to a catalogue description as follows:

"The Crown of Thorns" (Euphorbia splendens). The description states that "On the wild, rocky hills of Judea and in the immediate neighborhood of Jerusalem this emblematic plant is found, and from there our original stock was secured. * * * The 'Crown of Thorns' worn by our Saviour was made out of this plant, and some sacred historians assert that the drink given to our Saviour before his death was made from the juice of this plant."

It says:

The plant in question is a native of the Isle of France, as every florist knows, and the whole statement of the catalogue is without a shade of truth.

Mr. Kranz has a "Hummer."

A German paper published in Muscatine, Iowa, publishes the following item:

Our old friend Mr. Conrad Kranz has accomplished what no other florist has succeeded in doing by raising a species of roses which he has named Uncle Sam. The same blooms three times a year in the national colors, red, white and blue. Mr. Kranz has an order for 6,000 for the World's Columbian Exposition.

Mr. Kranz should tell us all about this startling novelty. He could sell many times 6,000 to the trade at rattling good prices.

It seems very curious that Chief Thorpe of the Floricultural Dep't of the Fair should have maintained the strictest secrecy regarding the order for 6,000 of such a remarkable new rose.

But there seems to have been an omission in the description, for certainly there must be stars in the blue. How is this Mr. Kranz? And is not each bloom tipped with a golden eagle? Pray keep us no longer in suspense!

IN ADDITION to covering the whole American trade, the AMERICAN FLORIST has subscribers in England, Scotland, Ireland, France, Holland, Belgium, Germany, Russia, Italy, Spain, Turkey, Australia, New Zealand, Japan, China, India, Brazil, Natal, South Africa, Mexico, Cuba, Sweden, Norway and Denmark. When you insert an advertisement in the FLORIST it goes to all the countries named above as well as to the American trade.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a good rose grower, married, good reference. C D, care Am. Florist.

SITUATION WANTED—By a practical florist of executive ability; have had experience in all branches of the trade. Age 22 years; single. Address. F. BURTENSHAW, Columbus, Ind.

SITUATION WANTED—By a young man who has had some experience in general greenhouse work. Wages not so much an object as to learn the business. Can give good references. Address Box 394, West Grove, Pa.

SITUATION WANTED—By gardener and florist of long and varied practical experience, with exceptional references, as foreman or grower in a first-class establishment. N. JOHNSON, 181 East 117 St., New York City, N. Y.

SITUATION WANTED—By a florist and gardener on private or commercial place; single; 20 years' experience; sober and industrious. Best of references. Please state wages. J. F. BROWN, Highlands, Newport, Ky.

SITUATION WANTED—By a thorough, practical florist and landscaper, having 20 years' experience; 12 years in this country. Private preferred. German; married; age 34. Address G B, P. O. Box 4, Central Valley, Orange Co., N. J.

SITUATION WANTED—By florist and gardener; German, married, age 30, private place. Successful rose grower, best of references, both private and commercial, also from present employer. Address B M, care American Florist.

SITUATION WANTED—As foreman or manager; thorough, practical knowledge of growing roses and florist stock; decorating and designing. Capable and reliable in any department. Good wages wanted. Address W, care American Florist.

SITUATION WANTED—Gardener, single, age 45; understands all work pertaining to floriculture and horticulture; have been used to growing for conservatory. Can grow good carnations roses and violets. A. HUMPHREYS, Walnut St., Cohoes, N. Y.

SITUATION WANTED—By a German florist and gardener, age 33, married, small family, strictly temperate, having 19 years practical experience from first class German and American private and commercial places, best references. Violets, roses and carnations my specialties. Good salary. Address FLORIST, East Moriches, Long Island, N. Y.

SITUATION WANTED—By a German, age 30, married, as foreman in private or commercial place, who at present holds the latter. Thoroughly versed in growing roses, carnations, bulbs and plants. Has had experience in leading places in Germany, France and this country for a number of years. Good references. Address CHAS. JOHNSON, care John Reid, 687 Bergen Ave., Jersey City, N. J.

FOREMAN—For general florist business. John N. May can with confidence recommend a really good practical man for such; age 36, married. Address for particulars to JOHN N. MAY, Summit, N. J.

WANTED—Catalogues of leading nurserymen and florists. HARRY BAKER, Kingsville, Ont.

WANTED—200 second-hand sash, 3x6 ft., by Aug. 1. State price. H. S. ROOP, Westminster, Md.

WANTED—Competent rose and carnation grower. References required. Wages must be moderate. Address L. C. BURT, Washington, D. C.

WANTED—A gardener: must understand growing plants and cut flowers. Single man preferred. Address J. T. BARTLETT, Oconomowoc, Wis.

WANTED—Catalogues, price lists, etc., of florists' stock. Address ED. MORAT, care S. J. Thompson, 261 W. Jefferson St., Louisville, Ky.

WANTED—At once, a florist, one that understands growing roses, carnations and other cut flowers. Address E L, care Am. Florist.

WANTED—Good man to take charge of a mail order department. State age, salary expected and references. J. A. EVERITT SEED CO., Indianapolis, Ind.

WANTED—Experienced and competent grower to take charge of six greenhouses. Experience as grower for the cut flower trade necessary. RICHMOND FLORAL CO., 15 W. Broad St., Richmond, Va.

WANTED—A good rose grower for commercial place who has had experience in growing other stuff also. Address SUN, care American Florist, stating wages expected and giving references. A good place for a first class man.

WANTED—A young man with some experience in growing plants, and in cut flower work. Must be of good habits and come with good recommendations. Address, stating age, years of experience, nationality, references and salary expected, D. B. WOODRUFF, Macon, Ga.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN. CONN.

LILIUM HARRISII.
Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

ALTERNANTHERAS.
SEPTEMBER CUTTINGS.
RED.....per 1000, $5.00
YELLOW..... " 4.00
MANETTIA VINES, 2-inch pots, per 100, $3 00.
HEITE FLORAL CO.,
712 Linnwood Avenue, KANSAS CITY, MO.

EXTRA CHOICE FLOWER SEEDS.
List free on application.
FRED. ROEMER, SEED GROWER
QUEDLINBURG, GERMANY.

EXTRA PETUNIA SEED.
A very fine collection of the large flowering, fringed varieties, of the best colors and finest markings. Pot grown and hand fertilized. Choice. Specially selected for florists' spring sales. Trade pkt 50 cts; 2 pkts, 50 cts. JOHN F. RUPP, Shiremanstown, Pa.

French Fruit Tree Stocks and Evergreens
of the best quality offered for FALL and SPRING Shipment by
P. SEBIRE & SONS, Nurserymen,
USSY, CALVADOS, FRANCE.

APPLE.		Per 10,000
Seedlings,	1 yr. No. 1, 6 to 8 millimetres..	$30.00
"	1 yr. No. 2 4 to 6 "	10 00
"	1 yr. No. 3, 8 to 12 in. in height.	6.50
	$61.00 per 100,000.	
CHERRY.		
Mahaleb,	1 yr. No 1, 5 to 8 millimetres....	18 00
"	1 yr. No 2 3 to 5 "	11 00
"	1 yr. No 3, 4 to 8 in. in height.	6 50
	$60 00 per 100 000	
Mazzard,	1 yr. No. 1, 5 to 8 millimetres....	14 00
"	1 yr. No 2 4 to 6 "	9 00
"	1 yr No 3 6 to 10 in. in height..	6 50
	$90 00 per 100,000	
PEAR.		
—Seedlings,	1 yr. extra 6 to 9 millimetres...	52 00
"	1 yr. No 1, 5 to 7 "	26 00
"	1 yr. No 2 4 to 6 "	16.00
"	1 yr No 3 6 to 10 in. in height..	8 00
	$66 00 per 100,000.	
PLUM.		Per 10 000
—Myrobolan,	1 yr. No. 1, 5 to 9 millimetres	$33 00
"	1 yr. No. 2, 4 to 6 "	14 00
QUINCE.		
—Angers,	from cuttings, No. 1, 6 to 10 m'ms.	66 00
"	" " No. 2, 5 to 8 "	44.00
ARBOR VITAE.		
American,	4 yrs. transplanted, 6 to 10 in ..	22 00
"	3 yrs " 5 to 8 in...	15 00
"	2 yrs. seedlings.....	7.50
NORWAY SPRUCE		
—4 yrs. transp'td, 8 to 14 in.....		13.00
	$115.00 per 100,000.	
3 yrs. "	6 to 10 in	10.00
	$88 00 per 100.000.	
3 yrs. seedlings, 6 to 10 in.....		4 50
	$35.00 per 100.000.	
2 yrs. "	3 to 6 in.	3 00
	$27.00 per 100 000.	

And a general assortment of other Fruit Tree Stocks, small Evergreens and Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. For information and orders address

C. C. ABEL & CO., P. O. Box 920, **NEW YORK CITY.**
AGENTS FOR U. S. AMERICA AND CANADA.

WHY You Should Grow Mushrooms.
Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.
During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.
Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or outhouses, in the open field or in mushroom houses.

HOW You Should Grow Mushrooms.



First get spawn that will grow. It must be fresh, well spawned, and in good condition. **Gardiner's Celebrated English Mushroom Spawn** is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, **"Mushrooms for the Million,"** Mailed free. **Falconer's "Mushrooms and How to Grow Them."** Published at $1.50. (Gardiner's price $1.35 post free.) **Robinson's "Mushroom Culture,"** 50 cts. post paid.

GARDINER'S ENGLISH MUSHROOM SPAWN.

John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, $8.00 per 100 lbs. Special rates to large growers. Address all correspondence to **21 North Thirteenth Street,** Philadelphia, Pa.

JOHN GARDINER & CO.

MILLA BIFLORA.

A Mexican Bulb of recent introduction. Throws up several flower stalks from each bulb. Increases from year to year. Flowers star-shaped, and pure waxy white. Excellent for summer cut flowers.

First size, very large bulbs, $4 per 100.
Second size, fine blooming bulbs, 40c. per dozen; $3 per 100.

Send for New Wholesale Priced List, ready January 10.

MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

KAE SHEAN CO.,
Growers of CHINESE SACRED LILY,
HONG KONG.

Goods can be obtained at the following houses:
John L. Childs Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R. Pierson.....Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

POLYANTHA ROSE

CLOTILDE SOUPERT. This is one of the best roses for pot culture. For spring trade we have this rose by thousands, in 2-inch pots.

We also have a fine lot of

FUCHSIAS;

Six best varieties. Prices on application.

N. ADMIRAL,
City Greenhouse, DANVILLE, ILL.
Mention American Florist.



THERE are all sorts of seeds. Some are good to look at; some to sell; some to experiment with, and see what the fruit will be like—if they grow. Our seeds are for **BUSINESS.** They are seeds to raise money. You don't "try them,"—we have tried them. We sell what it **PAYS** to plant.

Don't you need a list of such seeds? Our **"Money Grower's Manual"** is solid meat,—all doubtful kinds left out. If you plant for business, you must have it. FREE, if you send two 2c. stamps for postage, and mention **The American Florist.**

JOHNSON & STOKES, 217 and 219 MARKET ST. PHILADELPHIA, PA.

FLORISTS SEEDS.

The new crop of many varieties is now in store.

All Spring Bulbs Ready.

J. C. VAUGHAN, BOX 688 **CHICAGO.**

SPRING BULBS.

SPRING BULBS in full assortment.
FLOWER SEEDS. Fresh, pure and reliable.
IMPORTATIONS OF 1891 CROP COMPLETE NOW.
BARNARD'S FLORIST MIXTURE OF PANSIES has well stood the test and wins approval wherever it's tried. Trade pkt. 25c.; ⅛ oz. $1.00; oz. $7.00.

W. W. BARNARD & CO., 6&8 North Clark Street, CHICAGO.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

ROSES.

Wide awake florists will purchase their Roses now, while in a dormant condition. Our plants shifted now in larger sizes of pots, will give you a return of 100 %.

We have now ready 50 000 in 2-inch pots, $3 per 100; $30 per 1000, our selection.
25,000 in 3-inch pots, $5 per 100; $50 per 1000.
Also a fine lot of HYBRIDS, $5 per 100; $50 per 1000.
Larger sizes from $10 to $20 per 100.

Send lists to be priced. New Catalogue ready January 1.

Address **NANZ & NEUNER,**
LOUISVILLE, KY.

ROSES.

—o—

FIRST-CLASS STOCK ONLY, for forcing.

LIST READY FEB. 1st. WRITE YOUR WANTS.

M. A. HUNT,
TERRE HAUTE, INDIANA.

ROSES.

FINEST STOCK FOR FORCING IN THE NORTHWEST.

SMITH FLORAL CO.,
77 Seventh Street, MINNEAPOLIS, MINN.
Mention American Florist.

READY FOR
Immediate Delivery,
30,000 LOW BUDDED ROSES.

Ulrich Brunner.	Baroness Rothschild.
Magna Charta.	Persian Yellow.
Mme. Gabriel Luizet.	La France, Etc., Etc.

$10 per 100; $90 per 1000.

Gen. Jacqueminot, 2 years old, own roots $12.00 per 100.

HULSEBOSCH BROS.,
Box 3118. NEW YORK CITY

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.
The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.
Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.
Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

THE GREAT ANTIPEST.

For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

The Violet Disease.

How very different and entirely opposite are our experiences when relating to diseases and non success in flowers! In your issue of December 31 you publish a letter from Mr. Wadsworth of Plainfield, N. J., in relation to the violet disease which is so contrary to our experience that I am led to write this letter.

The last three years we have had great luck with our violets and the disease so often complained of was like "milk sickness," always in the next county. But this fall we have had our turn and although our violets have had the same treatment as heretofore yet the leaves began to wither, turn dark and die. We watched them very closely, plucked every diseased leaf as fast as it appeared, until now they are coming out again and are covered with buds, and we hope they will yet give us some violets.

Our violets are grown in cold frames the same as Mr. W.'s, excepting we make our cuttings in the fall instead of spring, as we believe it gives us healthier and stronger plants than when taken after a winter's forcing.

The violets affected were the Marie Louise, while several frames of the Czar very close by were not affected in the least. C. W. D.

New Albany, Ind.

I have had the same experience with violets as Mr. Wadsworth and mine have not been moved. I sell the plants to my customers and they get double the amount of bloom that I do and they get them much earlier. Mine receive every attention and I cannot understand it.

E. POWER.

WE CAN SUPPLY

VOLUME 6

—OF THE—

AMERICAN FLORIST

Bound in Half Leather.

PRICE $3.00 POSTPAID, OR $2.50 BY EXPRESS NOT PREPAID.

AMERICAN FLORIST CO.

Send for my Catalogue of

Chrysanthemums.

JOHN McGOWAN, Orange, N. J.

YOUR CHOICE

Chrysanthemums.

Stock plants of 600 varieties. All the Novelties. All the best sorts for Cutting and Market purposes. Not a diseased plant in the lot. Send for list.

DR. J. S. HINNERSHOTS, Reading, Pa.

PANSIES AND OTHER STOCK

For Fall Planting. Per 100 Per 1000

SMILAX, 2½ inch pots $1.50 $12.00
CHRYSANTHEMUMS, 5-inch pots.. 8.00
CHRYSANTHEMUMS, large stock plants in variety 20.00

Address J. G. Burrow,
FISHKILL N. Y.



CYCLAMEN FLOWERS will sell if they are good; cyclamen plants also. The **giganteum strain** is the only one worth growing if you grow for sale, and there are strains and **strains** of the **giganteum** also. It is not how cheap; **but how good!** Remember that! **Gardiner's strain of giganteum** comes high; but it's worth the difference. Sow **at once** for next winter's flowering. $2.00 per 100 seeds; $8.00 for 500 seeds; $15.00 for 1000 seeds.

JOHN GARDINER & CO.,

21 North 13th Str et. PHILADELPHIA, PA.

☞ Our trade list of choice Flower Seeds free.

PALMS and DECORATIVE PLANTS

ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

PALMS and FERNS

Well grown Specimen Plants, fit for immediate use.

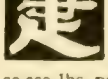
		Each.
KENTIA,	3 to 3½ ft. high, 6-inch pots, 7 to 8 leaves	$2.50
do	2 to 2½ ft. high, 5-inch pots, 5 to 6 leaves	1.50
do	1½ to 2 ft. high, 4-inch pots, 3 to 4 leaves	1.00
COCOS WED.	2 to 2½ ft. high, 6 to 8 leaves	2.00
LATANIA BOR.	2½ feet high, 6 to 8 leaves	1.00
PANDANUS VEITCHII,	2 to 2½ ft. 6-in. pots	2.00

FERNS—Well grown plants in 3 in. pots, for fern dishes, etc., in following varieties:

Pteris Hastata, Sieboldi, Cretica and Alba Lineata, Davallia Stricta and Fijiensis, Lastrea Leptophyllum, Polypodium, Blechnum and Polystichum, assorted, at $10.00 per 100.

E. W. WEIMAR, Mt. Vernon, N. Y.

CYCAS REVOLUTA STEMS,



To be delivered from February to April. By weight, roots and fronds trimmed off. We handle the

TRUE LONG-LEAVED SORT

only, and can furnish in sizes of from 4 inches to 4—6 ft. We imported over 30,000 lbs. past season, and can refer to the best firms in the United States as to satisfactory results. Full information as to freight rates, mode of treatment, etc., given on application. Our terms are consistent with BONA FIDE stock.

LIL. AURATUM, RUBRUM, LONGIFL., ALBUM, ETC.

Send for our Trade List and full descriptive, finely illustrated, retail catalogue. All desired information, estimates, etc., given cheerfully.

Address H. H. BERGER & CO.
SAN FRANCISCO, CAL.

ESTABLISHED 1878.

Adiantum Cuneatum.

Well established young plants, from flats, $1.00 per 100; $10.00 per 1000.

Same from 2½-inch pots, $3.00 per 100; $30.00 per 1000.

JOSEPH KIFT, West Chester, Chester Co., Pa.

WATER LILIES.

Choice Aquatics. Hardy Ornamental and Sub-Tropical plants, and

CHRYSANTHEMUMS.

Price list on application.

WM. TRICKER, Dongan Hills, N. Y.

Plants for Season.

ALL THE FOLLOWING ARE DESIRABLE FOR HOLIDAY TIMES.

FOLIAGE PLANTS.	Doz.
Araucaria excelsa, 6-inch pots, perfect specimens	$20.00
Dracæna fragrans, 2 ft.	5.00
" terminalis, good color, 2 ft.	5.00
" " 1½ ft.	3.00
" Bruanti and Congesta, 2 ft.	6.00
Areca lutescens, 2 ft.	10.00
" Baueri, 1½ ft.	4.00
Cocos Weddelliana, 1½ ft.	5.00
Grevillea robusta, 1 ft.	1.00
Aspidistra variegata, 2 ft., extra fine	10.00
PLANTS TO FORCE.	
Azalea indica, finest sorts, specimens, 2 ft., over 100 buds each	18.00
Azalea mollis, 15 to 20 buds	4.00
Spiræa palmata, pink	2.00
" astilboides (new white)	4.00
Anthurium Schertzerianum (Flamingo Flower)	5.00

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ANACOSTIA, WASHINGTON, D. C.

ORCHIDS.

The finest stock in the WORLD. Nearly five acres devoted to their culture.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10 00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII, DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots, strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

W. J. HESSER, Plattsmouth, Neb.

Tuberous Begonias.

DRY ROOTS, white, yellow, pink, red, $6.00 per 100. Mixed, $5.00 per 100. Small ones sent by mail at $4.00 per 100.

DOUBLE, separate colors, $10.00 per 100.

HYDRANGEA THOMAS HOGG, from 2-in. pots, per 100, $3.00.

BRAUER & RICHTER, McConnelsville, Ohio.

PHLOX DRUM. GRANDIFLORA SEED. A grand selection of the largest flowered and finest colored varieties that can be procured. Contains the cream of the latest novelties; many new and fancy colors. Excellent for blooming in pots. Extra choice. Trade pkt. 20c.; 3 pkts. 50c.; 7 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

Mention the AMERICAN FLORIST when writing advertisers on this page.

TO FLORISTS, JOBBERS AND MARKET GARDENERS.

UNITED STATES NURSERIES.

Early in the spring of 1891, we were fortunate in placing large contracts with responsible growers for quantities of all kinds of Vegetable and Flower Seeds, which places us in a position to quote advantageous prices to the trade in general. Florists, Jobbers and Market Gardeners would do well to send us their list of wants in this line especially, for prices before our large stock becomes depleted.

Our stock of EXTRA EARLY PEAS is the most select and best that can be had in the country; superior to most stocks sent out under fancy names and seal; and all other leading kinds; such as:

Champion of England, the favorite marrow. **Advancer,** half dwarf, second early; best market pea. **Little Gem and American Wonder,** best dwarf peas in cultivation. **Pride of the Market,** large handsome pods. **Telephone,** best late pea grown.

Our large stock includes also selected stocks of the following, which can be relied upon for absolute pureness and high germination. **BEANS, Extra Early Red Valentine** the snippers' favorite. **Mohawks,** the earliest green flat pea. **Long Yellow Six Weeks, Improved Golden Wax,** standard sort, rust proof. **Wardwell's Kidney Wax, Flageolet Wax,** largest podded wax varieties, much grown by southern shippers. **Golden Eye Wax,** stands all kinds of seasons and is most salable.

CABBAGE. All Long Island grown, from originators' stocks. **Jersey Wakefield, Early Summer, Succession, Late Flat Dutch,** the four best kinds in existence, and no others should be sown where a succession is wanted.

CUCUMBER. White Spine, the best kind for general use. **Extra Early Green Prolific, Boston Pickling,** most useful and profitable p ckling sorts.

LETTUCE, Curled Simpson, best curled early variety. **Boston Market,** excellent for forcing. **New York,** the only kind to cultivate outside.

ONIONS. Although one of the scarce articles this year, we are well stocked and can quote prices on the following kinds guaranteeing high germination. All localities have their favorite kinds. We simply mention the leading well-known varieties: **Red Globe, Yellow Globe, Danvers, Red Weathersfield, White Globe, White Portugal, Spanish King, Extra Early Red, Southport's Yellow Globe.**

RADISH, Beckert's Chartier, most profitable summer radish. **Early Round Dark Red,** earliest and best turnip variety. **French Breakfast,** very popular, oblong, white tip. **Early Scarlet Turnip,** French seed, choice stock. **White Tipped Scarlet Turnip,** market gardeners' favorite. **Yellow Summer Turnip,** useful summer kind.

SALSIFY. Mammoth Sandwich Island, much improved stock.

SPINACH, Large Thick Leaved, the best kind to plant.

SQUASH. The following kinds are too well known to require description, but it is safe to say the best and most useful in cultivation. **Boston Marrow, Summer Crookneck, White Bush Scalloped, Yellow Bush Scalloped.**

TOMATO. Acme, a favorite with shippers. **Mikado,** large, irregular in shape, but very solid. **Favorite,** good standard sort. **Early Ruby,** earliest of the large; good kind. **Table Queen,** solid and large. **Perfection,** excellent shipping sort.

TURNIP, Extra Early Milan, the earliest variety in cultivation. **Red Strap Leaf,** standard sort. **Improved American Top,** the best.

ALL FLORISTS' SEEDS AND REQUISITES.

PITCHER & MANDA,
Nurserymen, Seedsmen and Florists,
SHORT HILLS, NEW JERSEY.

Special Attention.

First Importation of the Season of 100,000 pounds of

CYCAS REVOLUTA,

in sizes from 6 inches to 6 feet, guaranteed to be the only **TRUE LONG-LEAVED VARIETY,** which for beauty in foliage is far excellent to any of its kind; fast becoming a most favored Palm, highly recommended by most leading nurserymen and florists.

By weight, fronds and roots cut off.

Price, not less than per 100 lbs. $10 00. Per 1000 lbs. $85.00, f. o. b.

Extra inducements on larger lots.

DELIVERED FROM JAN. 20th.

Send orders for **RHAPIS FLABELLIFORMIS.** Delivered from Feb. 1st.

Per 100 shoots, from $25.00 to $40.00.

Send for new Catalogue.

FELIX GONZALEZ & CO.,
303 to 312 Wayne St., SAN FRANCISCO, CAL.

12½c. SMILAX 12½c.

Over 1000 strings 6 to 8 ft. long, and heavy.

First-class, 12½c. per string, C. O. D.

CHAS. POMMERT, Greenfield, Ohio.



Mammoth Verbena Seed.

NEW CROP NOW READY. Choicest mixed varieties in the brightest colors. Per trade packet, 50 cts; 1-4 ounce, $1.00; per ounce, $4.00.

The strain we offer this year is far ahead of that sold last season with such satisfactory results. Only the richest colors have been retained, and the largest flowers selected for seed. Seedling plants are now preferred by the leading florists for spring sales because of their vigor and freedom from rust. With this strain to depend on there can be no doubt about the success.

DREER'S DOUBLE HYBRIDIZED PETUNIA SEED, so well known to the trade for the past 30 years, constantly inproving by judicious hybridizing. Trade pkt containing 700 seeds, $1; small paper 15c.

DREER'S SINGLE GRANDIFLORA MOTTLED AND STRIPED PETUNIA. This strain will give splendid results in pot culture, as well as open ground. It is rich in colors and markings, and of largest size. ⅛ ounce, $2 50; trade packet, 75 cts.

Cobea Scandens..... per oz. $.75 Centaurea Candidissima, per oz. $2; per 1000 seeds, 50c.
Smilax Seed, per lb. $8 " 60 " Gymnocarpa, " 50c. " " 30c.
☞ Preliminary flower seed list to the trade of seasonable seeds now ready; mailed free to the trade.

HENRY A. DREER, Philadelphia.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

—NO RUST OR MILDEW.—

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

C. H. JOOSTEN, IMPORTER, 3 Coenties Slip, NEW YORK.

ORDERS NOW BOOKED FOR SPRING IMPORTATION FOR

HARDY ROSES, CLEMATIS, AZALEAS, ETC. from the Boskoop, Holland, Nursery Association.

Also NURSERY AND FRUIT TREE STOCKS from LENAULT HUET, USSY, FRANCE.

Catalogues on application. **C. H. JOOSTEN.**

ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.

Verbenas

FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30 00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	3.00	25.00
" " Rooted Cuttings	1 00	8 00
H. P Roses, 2 years old, dormant	10 00	
Fine stock, 3-inch, Forcing Roses	8.00	75 00
SPECIALTIES IN ROOTED CUTTINGS.		
Coleus, old standard and new fancy sorts	1.00	8 00
Feverfew (Little Gem), extra strong	2 00	15.00
Salvia splendens, extra strong	1.50	12.00
Moon Vine	2.00	
Ageratum, blue and white	1.25	10.00
Achyranthes Emersonii, etc	1 00	
Heliotrope, light and dark—no rust	1.50	12.00

WOOD BROTHERS,
FISHKILL, N. Y
Mention American Florist.

VERBENAS.

Transplanted Rooted Cuttings, well assorted, $6.00 per 1000.

Rooted Cuttings, $5.00 per 1000.

Warranted perfectly clean. Cash with order.

W. B. WOODRUFF, Florist, Westfield, N. J.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.

I have my **COLEUS** in such shape now, that I believe that I can furnish **ROOTED CUTTINGS** in almost any quantity wanted. My stock of

VERSCHAFFELTII, GOLDEN BEDDER and GOLDEN VERSCHAFFELTII,

is very large and in good condition. It will pay you to inquire about my prices and varieties. I am confident that they will please you.

S. B. FIELD, Roselle, N. J.

Double White Primulas.

Fine plants from 3-inch pots, in bud and bloom, at $8.00 per hundred.

BOUVARDIA, strong roots for propagating, single and double white, pink and scarlet, at $4.00 per hundred.

Address **A. R. REINEMAN & BRO.,**
39 Fifth Avenue, Pittsburgh, Pa.

EXTRA VERBENA SEED.

IMPROVED GIANT.

This magnificent strain of Mammoth Verbena has given perfect satisfaction to my many customers in the florists' trade, and is justly claimed to be the finest in cultivation. The florets measure over an inch in diameter, borne in immense umbels. Very free flowering and of the finest colors. Every florist should be sure to sow of it. Trade pkt. 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

To Members of Florists' Clubs.

We have been favored with a typewritten copy of the report of Secretary Ewing, of the Toronto Gardeners' and Florists' Club at the recent annual meeting of that organization, and in it are expressed some thoughts that will bear memorizing by the members of every club in the country.

We give some extracts below:

"Always speak *well* of the club, and speak of it on every possible occasion to your employers, customers or any person you may meet and hold conversation with. If you have anything to say against the club or any of its members say it in meeting (if it must be said) where whatever you have to complain about can be remedied or the person complained against can have a chance to explain.

"Don't let your potting shed develop into a depot for scandal and complaints about other members, let it be a depot for new and progressive ideas for the benefit of the club and therefore for the profession at large.

"Don't be disappointed and go off in a huff if when you propose some pet idea to the meeting, other members can not see it in the light you do; bring it up again and again, if it is really a good idea it is bound to win its way, if it does not amount to anything you will soon find it out yourself and drop it.

"Don't allow yourself to get into that state of mind when it seems to you as if you had nothing more to learn or to gain by attending meetings of the club; you *can* learn something and you *do* gain something (though you may not be able to see it at the time) at every meeting, however dull.

"Enough of this, however, but before leaving it I would just say that I do not wish it to be thought that I am aiming these remarks at any individual member, nor do I profess to live up to them myself altogether, but it is a good thing to have a standard to go by. I will also say here that it rests with the members, each and every one, to make this club a power in this city which can be used to our own advantage and benefit whenever a fitting opportunity occurs."

We are pleased to note from the report that in spite of the expense incident to the last convention of the S. A. F. the club was not obliged to call upon any of its members outside of their annual dues, and also that the matter of a building for the club, for holding meetings, reading room, library, smoking room, etc., has been brought before the club for its consideration. The possession of such headquarters gives a club a stability that it can not otherwise have. An organization with a "home" is stronger just as a man with a home is stronger.

P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, France.
A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada:
C. C. ABEL & CO., P. O. Box 920, New York.

Tuberous Begonias.
Splendid strain, extra fine habit, perfect flowers, unrivaled for variety and brilliancy of colors.
TUBERS, per 100, 1000, or 10,000, offered by
ZOCHER & CO., Haarlem, Holland.
Mention American Florist

Sherwood Hall Nurseries.
TIMOTHY HOPKINS,
MENLO PARK, San Mateo Co., CALIFORNIA.
CARNATIONS, ROSES, VIOLETS, CHRYSANTHEMUMS AND CUT FLOWERS.
SWEET PEA SEED A SPECIALTY.

TUBEROUS BEGONIAS.
LARGEST STOCK IN AMERICA.
BETTER THAN IMPORTED GOODS.

SINGLE.	MIXED, SELECT.	per 100, $7.50
	" " (small tubers).	" 4.50
	Choicest Seedlings, equal to named flowers, in 12 distinct colors and shades	per doz. 2.50
DOUBLE.	MIXED.	per 100, 10.00
	" (small tubers)	" 6.00
	In distinct colors, White, Rose, Pink, Scarlet, Crimson and Salmon.	per doz. 2.50
	Choicest select Seedlings, in 12 distinct colors and shades	" 4.00

SEED.

Our seed this season is extra fine; saved from our collection of over 200 named varieties, all carefully hybridized. We guarantee it not to be excelled by any Foreign house. January is the best month for Sowing.

SINGLE OR DOUBLE, mixed	trade pkts. $1.00
SINGLE TO COLOR, White, Yellow, Rose, Pink, Salmon, Scarlet, Buff, Salmon Rose and Fancy.	(Nine colors, $4.00), per pkt. 50 cts.
DOUBLE COLLECTION, 10 named varieties.	$5.00
SINGLE VARIETIES by weight.	5 grains, $2.00, 1-32 oz. $5.00
DOUBLE " " "	5 grains, $3.00; 1-32 oz. $7.50

New Descriptive Catalogue ready about January 1st.
F. J. MEECH & SON, CHARLEVOIX, MICH.

Association Flora, Boskoop, Holland.
NOW ON HAND IN NEW YORK:
25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other
PLANTS FOR FORCING AND DECORATING.
Address P. OUWERKERK,
P. O. Box 1845, NEW YORK CITY.
Catalogue on application.

E. G. HILL & CO.,
Wholesale Florists,
RICHMOND, INDIANA.

GEO. W. MILLER,
WHOLESALE * FLORIST,
1748 N. Halsted Street,
Chicago, Ill.
ROSES AND PALMS A SPECIALTY.

TOBACCO STEMS,
At $1.00 per 100 pounds.
WISCONSIN FLOWER EXCHANGE,
131 Mason Street, Milwaukee, Wis.

ROOTED CUTTINGS.
ALTERNANTHERA P. Major and Aurea Nana, 50 cts. per 100.
AGERATUM White Cap and Cope's Pet, 50 cts. per 100, by mail prepaid.
OTHER STOCK LATER.
Don't order more PETUNIAS and VERBENAS until quoted here.
S. O. STREBY,
Lock Box 77. *UPPER SANDUSKY, OHIO.*

Clematis. Roses.
H. P. and Monthly, both pot and outdoor grown, good assortment, own roots, fine plants.
CLEMATIS, fine, well grown plants in choice assortment. Plenty of Jackmanii.
Prices very low, on application.
F. A. BALLER, BLOOMINGTON, ILL.



Kills Mildew and Fungus growth. What does?
GRAPE DUST.
Sold by Seedsmen.

FRESH CROP CAPE FLOWERS RECEIVED

and ready for prompt delivery; the quality is fine. We can furnish in two grades as follows:

A or PRIME QUALITY, white and very double flowers.....per lb. 90 cts. } with 10 per cent. cash discount equal to { 80 cts. net
AA or EXTRA QUALITY, fine white and large flowering.....per lb. $1.10. } $1.00 "

AUGUST RÖLKER & SONS, NEW YORK,
136 and 138 W. 24th STREET, or STATION E.

THE PANSY SOCIETY OF AMERICA.

Devoted to the culture and advocacy of the pansy—the Children's Flower for the National Emblem of the United States of America.

The Lesson: Evolve and avoid Revolution.

The Motto: Union, Culture and Peace.

Price of admission to and registry in The Pansy Society, one (1) cent.

All persons of whatever age, sex, color, or condition, in America, are invited to join it. Where local and State societies are formed, the local Sec'y collects three cents from each member, and sends the name of the local society and the number (above ten) to the State Sec'y, if there is one, with two cents for each member (less postage) and the State Sec'y sends the National Society name of State Society and number of local societies, with aggregate membership, and one cent for each (less postage). If no State Society is formed, the local Sec'y sends its name and number of members to the National Society with one cent for each member (less postage) and reports to the State Sec'y whenever one is elected, with remittance of one cent for each member.

Every one is cordially invited to assist in forming local and State societies. For fuller information address the President or Secretary, with return postage.

Please note that the cost of joining local societies is no more than the price of registry in the National Society, plus the postage necessary to remit it. It is designed to make the organization so simple, and the price of admission so small, that no one in all America will be too poor to join it.

ALBERT C. HOPKINS., *Prest. pro tem*, Nashua, Iowa.
MAUD RUSSELL, *Acting Sec'y*, Capitol Hill, Canton, S. Dak.

3rd

And last call for advs. in our new Directory and Reference book. Don't forget that the advs. will all be placed opposite valuable reference matter,

And

That these pages will be frequently consulted by actual buyers of your goods. You will make a serious blunder if you miss this

Last

Chance to have your business card in its pages where it will be for at least two years continually under the eyes of the people whose attention you wish to

Call

To your advantages for supplying their wants. The rates are low for such a permanent adv. Page $40; half page $25; quarter page $15; eighth page $9. Page 4½ by 7 inches. Every advertiser gets a copy of the book. Send at once or you will be too late.

AMERICAN FLORIST CO.,
54 La Salle Street, CHICAGO.

No Trees LAST & BEAR like WHOLE ROOT Trees; see "Fruits and Fruit Trees"—Free. *Amer. Garden* says: Novel, USEFUL, to the point. *Orange Judd Farmer:* Ably written; gives trusty INFORMATION. *Cal. Fruit Grower:* Surprising LOW prices! Apple, Pear, Cherry, Plum, PRUNE, Peach, Ap't, Quince, Nut, Or. Trees, Grafts, ROSES—*everything*. No larger stock in U.S. No BETTER. No cheaper. STARK BROS., 31st St., Louisiana, Mo.—Founded 1825; OLDEST. 1000 Acres; LARGEST.

HARDY PLANTS BY THE MILLION.

NO DOUBT ABOUT IT. ACRES AND ACRES OF THEM.

Pæonies, Pæonies; SUCH Pæonies! And PYRETHRUMS. If you could **only** see them. The very, very choicest collection in the **world** and far and away the largest. As for **GLADIOLI;** well, everyone **this** side the water knows we're the people for them; we want you to recognize it too! Our named sorts and seedlings—for exhibition—oh! the colors. 25 acres of these. 15 of Pæonies. Catalogues all ready. Every thing you want to know about in them. Seeds, Plants, Bulbs or anything. Our things have a knack of growing, too!

57 GOLD AND SILVER MEDALS, LONDON AND PARIS.

KELWAY & SON, LANGPORT, ENGLAND.

J. Horace McFarland Company.

INCORPORATED 1891.

How does that look? It means that I have got to say "we" now, because there are more of "us"; but I'm in good company, I believe! Well, then, "we" are bigger than J. H. McF. all by himself, and we've enlarged, increased and extended his facilities for doing the right sort of printing for florists and the other plant and tree people. A fine new electrotyping outfit and a lot of other new machinery will help the Company to keep J. H. McF. hustling after work, and doing it! The florists are responsible for this move, and they want to notice that we're ready to do Catalogues in great shape at the Mount Pleasant Printery, and do them on time. Write to

J. HORACE McFARLAND COMPANY, Harrisburg, Pa.

[*P. S. by J. H. McF.*—The "we" will go better after a bit. Just notice that I'm right "in it" yet, at the same old stand, and the others are helping me to do better for all of us, and you!]



FANCY. DAGGER

2,000,000 EVERGREEN CUT FERNS NOW READY.

Special attention paid to supplying the wholesale trade.

Single thousand, $1.25; in lots of five thousand and upwards, C. O. D., $1.00 per thousand.

SPHAGNUM MOSS. Long, clean fibre, hand sorted, DRY or GREEN, $1.00 per barrel; 6 barrels, $5.00. 20 barrels, $15.00. **BOUQUET EVERGREENS,** $2.00 per barrel.

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If you wish to illustrate your Printing with Cuts, send 50 cents for my Catalogue of **FLORAL ELECTROS—2,250** Engravings.

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Mention American Florist.

H. BAYERSDORFER & CO.,
WHOLESALE
FflorISTS' SUPPLIES ONLY,
56 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

=WHAT IS?=



FLORISTS' SUPPLIES IS our SPECIALTY.

To be convinced, send for New Catalogue.

Yours truly,

PHILA. IMMORTELLE DESIGN CO.,

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BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, $2 00 per 100. Patent fastener with each letter.

WHEAT DESIGNS OF EVERY DESCRIPTION.

AGENTS: A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; E. Kaufman, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; J. Pitzholt, 291 Gratiot Ave., Detroit, Mich.; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.

J. A. Simmers, Toronto, Ont., Agt. for Canada.

Sweet Scented Begonias.

In the FLORIST of December 31 we find an article with the above heading. As to the tuberous begonias we will leave them to those better posted to speak. We have a begonia that produces white flowers on long stems, that are nearly as fragrant as the freesia flowers, the flowers holding to the stems for a long time. The plant is of strong upright branching habit, stems light green, leaves a bright lustrous green. We have no name for it, as the old German woman we bought it of knew nothing about it except that its flowers were fragrant. I hope this will be the means of bringing out further information in regard to this most interesting variety of plants.

Abilene, Kans. C. H. BAGLEY.

The Violet Disease.

Has no cure yet been discovered for the violet disease? My neighbors here say that there is no cure, and that the only thing to do is to pick the rusty leaves off. I did this but it continues to spread.

A SUBSCRIBER.

[If any one has yet discovered a cure for or a preventive of the violet disease we shall be glad to hear from him.—ED.]

In to Stay.

AM. FLORIST CO., Chicago, Ill., *Gentlemen:*—We send you to-day the cut you say is needed for our "ad." in the directory. We cannot refrain from again expressing our great satisfaction with the AMERICAN FLORIST as an advertising medium. We give each paper in which advertisements of our steam and hot water boilers appear a different street and number, so that we can accurately tell just how much good each paper does us. We can safely promise to use the columns of the AMERICAN FLORIST as long as we have boilers to sell. Very truly,

HERENDEEN MANUFACTURING CO.,
W. L. Herendeen, Treas.

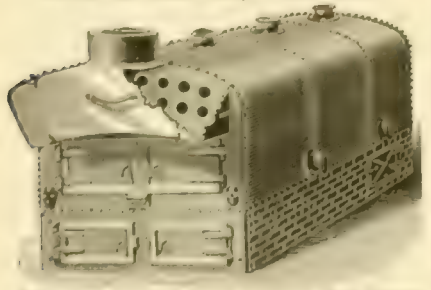
BOXES. BOXES. BOXES.

Three-Piece Wood Mailing Box.

The neatest and strongest box on the market. Send 15 cts. in stamps for sample nest and price list. I also make Cut Flower and Express Boxes.

W. E. SMITH,
Successor to SMITH & SMITH,
Hardin County. KENTON, OHIO.
Mention American Florist.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

FIRE! FIRE! FIRE!

A. H. Hews & Co.

Wish to inform their customers that notwithstanding the recent disastrous **Fire** in their factory, through the kindness of their friends in the trade, they will be able to fill all orders which they may receive, with an excellent quality of

STANDARD FLOWER POTS.

All orders will receive prompt attention.

We are now rebuilding, and hope to be able to furnish our own **Superior Flower Pots** in a very short time.

A. H. HEWS & CO., CAMBRIDGE, MASS.

"STANDARD" FLOWER POTS.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company

Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa
Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS.

Another Saving in Freight.

Not only are our pots lighter in weight and yet as strong as any other pot on the market, but our way of packing for shipping will cause you to pay for the smallest dead weight possible. These two items we claim will save you one third in freight charges. To prove this will send circulars showing number of pots in crate and weight of same, with freight rate per 100 pounds to any point.

SIPPLE, DOPFEL & CO., Syracuse, N. Y.



SPRAY YOUR FRUIT TREES AND VINES

Wormy Fruit and Leaf Blight of Apples, Pears, Cherries, Grape and Potato Rot, Plum Curculio prevented by using **EXCELSIOR SPRAYING OUTFITS.**

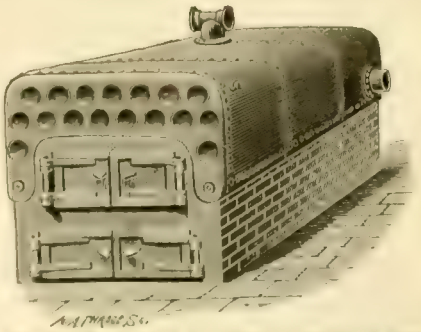
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THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers



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SEND FOR NEW LIST.

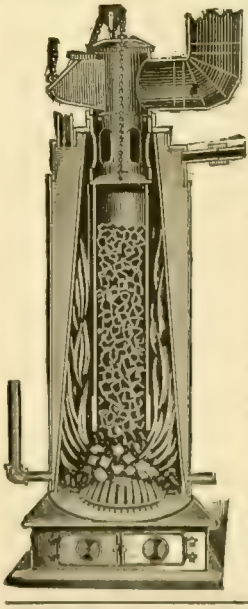
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CHICAGO.

ESTABLISHED 1866.

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Manufactured by

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335 East 21st Street. - NEW YORK.



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FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured by *THE S. WILKS MF'G CO.* 123 S. Clinton St., CHICAGO, ILL.
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MANUFACTURERS OF
FLORISTS' WIRE DESIGNS
122 W. 25TH ST. NEW YORK

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WITHOUT A RIVAL EITHER IN COST, SPEED IN OPERATING OR SECURITY IN CASE OF STORMS.



— MANUFACTURED BY —
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1st. Give the number of sashes to be lifted.
2nd. Give the length and depth of sashes, (depth is down the roof.)
3rd. Give the length of house.
4th. Give the height from the ground to the comb of roof.
5th. Give the thickness and width of rafters or sash bar.

CYPRESS GREEN HOUSE MATERIAL

CLEAR CYPRESS SASH BARS

HOT BED AND VENTILATING SASH

JOHN L. DIEZ & CO.
530 North Halsted Street.
CHICAGO, ILL.

Mention American Florist.

SASH BARS

VENTILATORS, RIDGES, GUTTERING AND LUMBER.

NO WIDE-AWAKE FLORIST need be told it will pay him to use SASH BARS, etc. made from

CLEAR CYPRESS.

Bars all Shapes up to 20 feet long.

☞ Send for circulars and estimates.

LOCKLAND LUMBER CO.,

Hamilton Co., LOCKLAND, OHIO.



GREENHOUSE HEATING AND VENTILATING.

Superior Hot Water Boilers.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.

Tobacco Stems.

I make a Specialty of packing stems for flower growers.

Prices and references sent on application.

H. A. STOOTHOFF,
417 E. 76th Street, NEW YORK CITY

A FEW POINTS ABOUT OUR NEW DIRECTORY.

POINT 1.—The new book will contain an accurate list of those in the trade on the Continent of North America, January 1, 1892.

POINT 2.—In addition to the above it will contain the statistics of the Florist, Nursery and Seed Trades from the last census.

POINT 3.—It will also contain a complete list of all National and Local Trade Organizations, with just the information about each that you want to have convenient for reference.

POINT 4.—It will contain an alphabetical list of Roses, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

POINT 5.—It will contain a similar list of Chrysanthemums, also up to date. One that can be relied upon as authoritative.

POINT 6.—It will contain a similar list of Carnations.

PRICE ONLY $2.00.

? Can you afford to be without this book? We don't believe you can.

SEND IN YOUR ORDER NOW.

AMERICAN FLORIST CO.,

54 La Salle Street, CHICAGO.



Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes, ⅛-inch to 42 inches diameter.

The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,** Sole M'f'rs and Owners of all the *Sphincter Grip Armored Hose Patents,* 49 Warren Street, New York.

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NO Rotting of Benches.
Sodding of Cracks.
Sour Soil.

The Perfect Drainage
BENCH TILE.

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Upland Greenhouses, Madison, N. J.



THE STANDARD
Ventilating Machines

Received Best Awards at
BUFFALO, N. Y., BOSTON, MASS. and TORONTO, ONT.

Send for Catalogue and prices.

E. HIPPARD
YOUNGSTOWN, O.

No More Leaky Sky Lights

Or Slipping and Breaking of Glass in Green Houses or Farmer's Sash. You can save money and glass by using the



PATENT GLAZIER
Twin Points.

THESE POINTS are far superior to the old mode of setting glass, as they will hold each pane in place, preventing the glass from slipping and causing binding and cracking. Each box contains 500 rights and 500 lefts. We also make a tool for driving the points. **Price, 35c a Box. Driver, 15c. A Liberal Discount to the Trade.**

These points are kept by all prominent Hardware, Paint, Oil, Seedsmen, and Florist Supply Stores in the country. If you do not find them, send postal for a free sample, or send 69 cents for 1 package and 1 driver by mail, post paid to any part of the U. S.

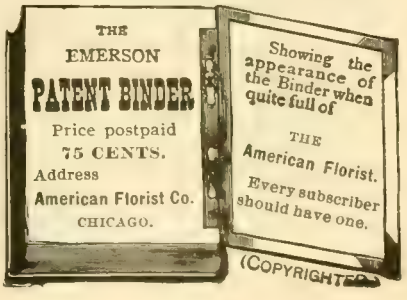
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107 Madison Street, CHICAGO, ILL.

Their work in this journal speaks for itself

Publishers AMERICAN FLORIST.



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THE AMERICAN FLORIST goes regularly, *every week*, to over 5,000 subscribers, *in the trade*, who have *paid* for it. *All* advertising experts agree that such a circulation is worth to the advertiser *many times* one of equal size that is not paid. Anything that is worth having is worth paying for. And when a man *pays* for a thing it is pretty fair evidence that he wants it. The FLORIST has rea[illegible] to its readers. They pay for it, th[illegible] and they preserve it afterward[illegible] ence. Bear these facts in mind when arranging for trade advertising.

GoodelHH Mass Agri Col 15 Dec 92

WHEN sending us small amounts in postage stamps, please select those of the 2-cent denomination.



ALL SIZES OF SINGLE AND DOUBLE THICK

GLASS FOR GREENHOUSES.

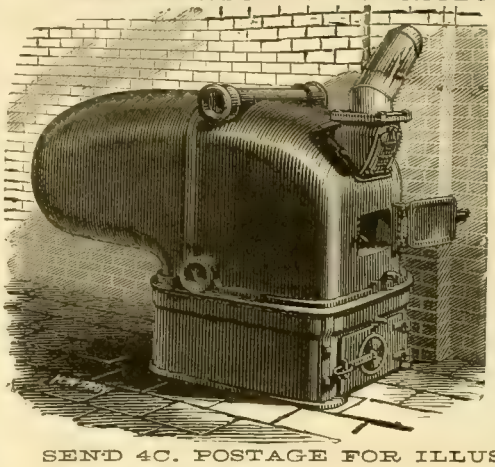
—ALL GLAZIERS' SUPPLIES.—

☞ Write for Latest prices.

MARING, HART & CO.,
MANUFACTURERS OF
Window Glass
MUNCIE, IND.

We make a Specialty of GLASS FOR HOT-HOUSES.

GREENHOUSE HEATING AND VENTILATING
HORTICULTURAL ARCHITECTURE AND BUILDING.



Hitchings & Co.
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Greenhouses Constructed with
Posts, Rafters, Purlins, Sills, Gutters, Columns, and Brackets, all of IRON.
And Glazing Bars, Ventilating Sash and Siding of WOOD.

Estimates for the Heating and Ventilating Apparatus furnished separately if desired.

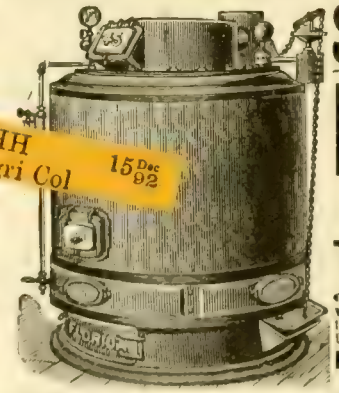
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Eighteen Sizes.
PERFECT SASH RAISING APPARATUS.

SEND 4C. POSTAGE FOR ILLUSTRATED CATALOGUES.



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244 CANAL STREET, NEW YORK,
MANUFACTURERS OF
IMPROVED BOILERS (With Shaking Grates)
PIPE and PIPE FITTINGS, for heating Greenhouses, &c
VENTILATING APPARATUS,
for raising Sashes in Greenhouses.
GALVANIZED SCREW EYES
and WIRE for Trellis Work.
—ALSO—
Horticultural Builders.
Conservatories, Greenhouses, &c.,
ERECTED IN ANY PART OF THE UNITED STATES OR CANADA.

A throughly Portable Span-Roof Greenhouse, 12x8 feet, with Boiler House 4x4 feet, Heating Apparatus and Ventilating Rods included, put up complete (frt. prepaid) within 100 miles of New York City for $325, or delivered on cars in New York for $260, and any gardener or ordinary mechanic can erect it in one day.



Save Your Coal and INSURE Your PLANTS and FLOWERS
STEAM AND HOT WATER
FLORIDA HEATERS
FOR GREENHOUSES.
Made in 38 Sizes for Steam; Made in 33 Sizes for Hot-Water.
THOUSANDS AND THOUSANDS IN USE.
Has a Magazine Feed. Throws out No Gas. Saves 25 per cent in fuel. Gives a uniform heat day and night. Fully warranted in every respect and guaranteed to give satisfaction. Reliable Agents in all the leading cities and towns in the United States. Send for new catalogue. Address
PIERCE, BUTLER & PIERCE MFG. CO.
SYRACUSE, N. Y., U. S. A.

FOSTER'S GREENHOUSE BOILERS.
HIGHEST AWARD Florists' Convention, 1890.
First-Class Certificate Merit for Steam Boiler.
First-Class Certificate Merit for Hot Water Boiler.
HIGHEST AWARD Mechanics Charitable Association, Boston, 1890.
GOLD MEDAL FOR SUPERIORITY.
F. W. FOSTER, 178 Devonshire Street, BOSTON, MASS.

D. H. ROBERTS,
150 & 161 S. Fifth Ave., NEW YORK,
NATURAL GAS MADE GLASS
for ROSE HOUSES, CONSERVATORIES, Etc., Etc.
Our Glass received the Highest Award at the Boston Convention of the S. A. F.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns.

HAIL
Lock the door BEFORE the horse is stolen. Do it NOW!
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VII. CHICAGO AND NEW YORK, JANUARY 21, 1892. No. 190

THE AMERICAN FLORIST

Copyright, 1892, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

54 La Salle Street, CHICAGO.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

AMERICAN CARNATION SOCIETY.

EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., president; C. J. Pennock, Kennett Square, Pa., secretary. First annual meeting and exhibition at Buffalo, N. Y., February 16, 1892.

FLORISTS' PROTECTIVE ASSOCIATION.

Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BEATTY, Sec'y, Oil City, Pa.

AMERICAN CHRYSANTHEMUM SOCIETY.

JOHN THORPE, Chicago, president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

FLORISTS' HAIL ASSOCIATION.

Insures greenhouses against damage by hail. JOHN G. ESLER, Secretary, Saddle River, N. J.

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WE HAVE in hand for next week's issue quite a number of valuable articles that have been crowded out this week through pressure of news. Among these is an article on growing cyclamens, by Mr. John Rose, illustrated with beautiful half-tone engravings from photographs of plants grown by him. We shall also continue Mr. Menand's personal recollections.

PLEASE mention the AMERICAN FLORIST every time you write an advertiser.

Society of American Florists.

ANNUAL MEETING OF THE EXECUTIVE COMMITTEE.

The regular winter session of the Executive Committee was held at the National Hotel, Washington, D. C., on Jan. 12-13-14, President Jas. Dean presiding. All the members of the committee were present, with the exception of Mr. Buckbee of Illinois, who was unable to come by reason of sickness, and Mr. Burton of Phila., who was detained at home on account of the death of his mother. Mr. J. N. May of Summit, N. J., and Mr. John Saul of Washington, D. C., who were present, were, according to custom, elected to act as substitutes for the absent members.

The committee held three sessions daily and the amount of business transacted was unusually large. The report of the treasurer showed an increase of several hundred dollars to the credit of the society and from the secretary it was learned that the membership list is more than holding its own.

After visiting and inspecting the various halls available for the coming convention the National Rifles Armory was finally selected as offering the best facilities for the purpose. The upper hall will be the audience room and the lower hall will accommodate the customary trade exhibit. There is a sufficient number of small rooms for secretary's headquarters and for committee work, hence all the departments of the great meeting will be under one roof, an arrangement which will be very convenient and conducive to the comfort of those in attendance.

The list of subjects selected for essays and discussion was as follows:

Decorative Art.
Floriculture for Children.
Hybridization.
Comparative Value of Commercial Fertilizers.
Insect Pests in the Greenhouse.
Club Root on Roses and other Plants.
Propagation of Roses.
Commercial Integrity.
Flowers for Holiday Demands.
Marketing Cut Flowers.

The customary Review of New Plants, which was so thoroughly done by Mr. Wm. Falconer last year, has been again assigned to that gentleman. A large number of valuable and practical subjects for the Question Box were received and filed and this department of the work next August will be of the usual interesting and instructive character.

The need of some definite regulations for the management of the trade exhibition has long been apparent and a subcommittee was appointed last year to formulate something in this line. The result of their labors was the adoption at this meeting of the Executive Committee of the following set of permanent rules and regulations:

1. The Society of American Florists shall, through the Executive Committee, control all features of the trade exhibition.
2. There shall be appointed annually at the January meeting of the Executive Committee a superintendent of exhibits. The vice-president of the S. A. F., or the local organization in the place where the convention of the current year is to be held, shall be invited to recommend such superintendent for election by the Executive Committee, as aforesaid.
3. Said superintendent shall have general charge of all details of the annual exhibition and shall be under seven days full service and pay at and during the convention.
4. He shall receive all applications for space and assign the same in the order in which they are received by him. He shall provide and arrange all necessary tables and staging.
5. Judges shall be appointed by the Executive Committee and the superintendent of exhibition and duly notified not later than at the first morning session of the convention.
6. The exhibition shall be closed between the hours of 2 and 4 p. m. on the first day of the convention, during which time the judges shall pass on the exhibits, and they shall report promptly to the secretary on the same day.
7. Awards shall be given as follows:
Highest—Certificate of Merit.
Second—Honorable Mention.
Third—Highly Commended.
8. No awards, except the above named, shall be made on any article exhibited.
9. Doors of exhibition shall be closed five minutes before the opening hour of each session and remain closed during the session.
10. Exhibition to be open not less than two hours before the opening of morning sessions, to remain open during the day, except during session hours, and as provided in Sec. 6 and to remain open one hour after the closing of the evening session.
11. Wall space shall be measured 4 feet in height and when practicable a table not less than 1 foot wide shall be added gratis, if desired and applied for with entry.
12. Space desired shall be designated in square feet. A uniform charge of 25 cents per square foot for all space will be made, excepting that all plants and flowers contributed for exhibition purposes only shall be admitted free.
13. All adjustments not covered by rules or published action of the Executive Committee shall be referred to that committee.
14. Exhibits not in position before 1 p. m. on the first day of the convention may be excluded from the report of awards.
15. No articles exhibited shall be removed until after the close of the last day's session except by permission of the superintendent of exhibition.
16. Exhibition classes to be arranged as follows: A—Plants; B—Cut Blooms; C—Boilers and Heating Apparatus; D—Greenhouse Appliances, including Flower Pots; E—Florists' Supplies, including Fancy Earthenware; F—Bulbs and Seeds; G—Miscellaneous.
17. Exhibitors may group their goods together, excepting in the case of living plants and cut flowers. These shall be shown in a separate department from the other classes.

In accordance with the provisions of Sec. 2 Mr. C. F. Hale, of Washington, being recommended for the position of superintendent of exhibitions, was duly elected to serve at the coming convention.

In addition to the awards provided for in the foregoing rules it was voted that three medals of gold, silver and bronze be offered to the originators of new hybrids or varieties raised from seed or the discovery and introduction of new species or varieties that are decided improvements over existing kinds. The awards to be made in accordance with the following rules:

No award to be made for any plant that has not been grown at least two years in this country and exhibited at least twice before some regularly recognized horticultural society where it shall have received a first class endorsement by said society.

Further, that it have the endorsement in writing by three members of the executive committee before it shall be considered by the full executive board, and then only shall such award be made by a two-thirds vote of the committee. Such species or variety to be shown in plant form and cut state where practicable.

Not more than one medal shall be awarded in each class and not more than three in all in each year.

Secretary Esler of the Florists' Hail Association having made application for the assignment of a portion of the time of one evening for the annual meeting of that body, it was decided, in view of the constant increase in the number of minor societies and the limited time occupied by the S. A. F. for its regular sessions, that no time belonging to the regular sessions be hereafter given up to any kindred organization, but that during every afternoon the use of the audience hall shall be free to these organizations in the order of their application for the same.

It was also voted that no announcement of bowling or other entertainments of any kind that will conflict with any regular session of the S. A. F. shall be permitted on the official program.

The following resolution was unanimously adopted:

WHEREAS, Washington friends have invited us to meet in the capital city at our next annual meeting, therefore be it

Resolved, That in accepting their kind invitation we do not wish them to feel that they have placed themselves under obligation to extend to us as a body any courtesies involving expense to themselves; and that it is the desire of the Executive Committee that their efforts in this direction be limited to advising as to the best methods of visiting the various places of interest, leaving each individual member to defray his proportion of whatever expense is incurred.

Considerable correspondence relative to the part to be taken by the S. A. F. in the World's Columbian Exposition was read and the matter thoroughly discussed, the result being the adoption of a resolution addressed to Director-General Davis, as follows:

"DEAR SIR—The Executive Board of the Society of American Florists, now duly assembled in Washington and having under consideration certain communications pertaining to the Horticultural Department of the World's Fair and having a most earnest desire to aid in the success of that department, but having received no definite information regarding the plans, classifications, rules and regulations thereof, do hereby respectfully, yet most emphatically and urgently, request that the department shall immediately make known to each and every person or persons interested in the welfare of this department and especially for the information of intending exhibitors, a schedule giving the full details of the exhibits, manner and time of exhibiting them, with explicit rules and regulations governing the same and the time and conditions of proposed awards, and such other information as will in any way facilitate, aid and benefit the cause of horticulture and the success of this department in particular.

"The fact must not be lost sight of that exhibitors of living plants, unlike those of manufactured goods, must have time in which to prepare, locate and establish their exhibits.

"Should the information herein requested be immediately given to us, we as a society will do all in our power to assist the department in disseminating such information and to enlist the hearty co-operation of horticulturists in making this feature of the exposition the success it merits, commensurate with the growing importance of our business and the honor of our country."

This resolution was signed by every member of the committee and a copy sent to the Associated Press for general circulation.

The usual consideration of the work of the Nomenclature Committee came up, and Mr. Wm. Falconer having declined to serve longer on that committee, Mr. E. G. Hill was elected in his stead as chairman for the ensuing year. The names of Jackson Dawson, John Saul and Geo. Vair were substituted for those of J. D. Raynolds, John Thorpe and Chas. D. Ball as members, and otherwise the make-up of the committee remains as last year.

It was voted that hereafter at all conventions of the Society of American Florists the secretary be required to keep a registry book in which all visiting members will be requested to record their names and place of sojourn during their stay.

Much regret and sympathy was expressed on receipt of the news of the death of Mr. John Burton's mother and telegrams of condolence were sent to Mr. Burton and Mr. Lonsdale.

Final resolutions were adopted as follows:

Resolved, That the thanks of this committee be extended to the local florists, gardeners and all others who have so kindly aided us in the discharge of the duties assigned us, rendering our brief stay in their city both profitable to the society and pleasant to ourselves.

An invitation from the National Gardeners' Club of Washington to meet them and a few other friends at a banquet in the National Hotel on the evening of Thursday, Jan. 14, was received and accepted with thanks. All the members of the committee attended and the evening was passed most pleasantly.

SPLINTERS.

The national flower question was promptly shelved.

The next time Mr. Long thinks of introducing any fancy words in the discussions he will do well to take Mr. Welch into his confidence beforehand.

Mr. Saul claims that Washington is one of the coolest cities on the continent, but incautiously admitted that it might be warm sometimes at 4 p. m.

The members of the committee called upon Secretary Rusk. "Uncle Jerry" gave them a most cordial reception.

Mr. Falconer in withdrawing from the Nomenclature Committee incidentally remarked that a man had been threatening to come all the way from Tennessee on purpose to shoot him.

Mr. Manda asserts that he has been told that there is more grazing ground in the city of Chicago than in the whole state of Massachusetts.

Mr. Falconer says we must give Chicago credit for one thing at least; that is their liberal support of their parks.

The National Gardeners' Club of Washington is composed of just the right kind of material, that is, a proportionate representation of youthful old members and sedate young members.

OUT OF 428,618 emigrants who arrived in the United States during the year 1891 260 are classed as florists and 1,126 as gardeners.

The Late James Taplin.

We present in this issue a portrait of the late James Taplin, from a photograph taken in 1876, the most recent existing portrait; and a sketch of his life from Mr. J. N. May, much more complete as to details than the hurriedly prepared one that appeared in last issue.

Mr. James Taplin died at his home in Maywood, N. J., on Saturday Jan. 9, after an illness of only 14 days, from an attack of La Grippe, which turned to bronchial pneumonia and ended in his death as above, in the 61st year of his age.

He was born at Overton, a village in Hampshire, England, and as soon as able to earn his own living was duly apprenticed to the business of a gardener. After serving his full time as such he worked in several of the best gardens in England, first as journeyman, then as foreman, etc., during which time he was steadily adding to his knowledge. Being always a very hard worker and also a great student he mastered his business much earlier than many others who start out under equally favorable conditions.

As evidence of this, while quite a young man, he was appointed head gardener to His Grace the Duke of Devonshire at Chatsworth, England, where he succeeded Sir Joseph Paxton, who gained a world wide reputation as the designer of the immense glass building for the first international exhibition, or as it would now be called, "World's Fair." Mr. Paxton had during some years previously been steadily improving and adding to the glass structures and also the collection of plants at Chatsworth till it had become one of the most famous establishments, if not really the one above all others in the world where all horticulturists' eyes were turned. It can readily be imagined that there were hundreds of men in England who would consider it a great honor to take charge of such a place, and in proof of this there were a great many applicants from among men in high standing, but Mr. Taplin was the one chosen, which speaks volumes for his ability, which was subsequently demonstrated by the magnificent plants, flowers, fruits, etc., which were produced there under his management.

In 1864 he relinquished his position there to come to America and take charge of the florist business of Mr. George Such of South Amboy, N. J., where he soon displayed his master hand by producing such magnificent specimens of many rare tropical plants as had never been seen in this country, if anywhere, before, and which were often exhibited by him at the old Madison Square Garden, N.Y., at the time the New York Horticultural Society held its grand shows there. The vivid pictures of the fine plants and large collections displayed by him there still remain very fresh in the memory of a large circle of friends and admirers who gathered around him there, for in addition to his abilities as a horticulturist he was a warm, genial friend, honest, plain, and fearless of friend or foe.

In 1879, after Mr. Such had decided to dispose of his immense collection, Mr. Taplin bought a farm at Maywood, having considerable glass already built upon it, to which he removed with his family and where he resided till his death, and where he had carried on the wholesale growing of flowers and plants, principally for the New York market. Of late he has been turning his attention to hardy flow-

ering shrubs, etc., with considerable success.

His frequent contributions to the horticultural press, both in this country and in England, were marked to a degree with good sound practical instruction, always to the point and void of gloss or theory.

He leaves a wife, two sons and three daughters. One, the eldest, Emily Louise, now Mrs. Royle, was formerly a very valued contributor to this paper. They mourn the loss of a kind husband and loving father and have the sincere sympathy of a large circle of friends.

J. N. M.

Commercial Aspect of the Florist Trade.

BY C. H. GRIGG.

[*Extracts from paper read before the January meeting of the Florists' Club of Philadelphia.*]

Ten years ago the general public knew very little about fine flowers, especially roses. Very few were then grown around Philadelphia, and we were obliged to look to Boston for the finer varieties, even New York being considerably behind at that time. Wonderful strides have been made since then and the finest flowers are now in profusion everywhere.

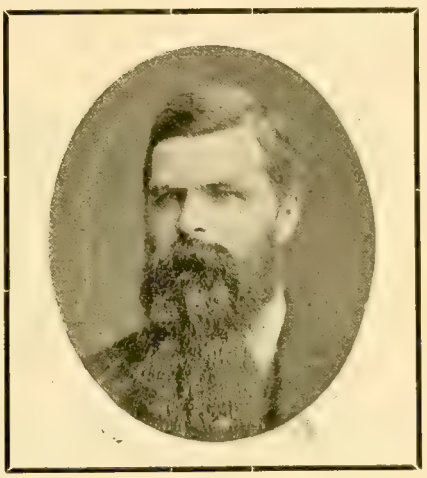
The question is, can not a better value be obtained for them? The only answer seems to be to devise some plan for their more general distribution and to avoid, if possible, what seems now to be a necessary waste. You say flowers are a luxury and you can not create a demand for them. But flowers are more than a luxury; they have come to be considered a necessity on many festal and other occasions. Everybody loves flowers, yet thousands only see them at rare intervals, and but seldom have the pleasure of actual ownership. I contend that popular flowers should be sold to the masses at popular prices, and one way of doing this would be by establishing suitable places in popular localities, where it would be known that perfectly fresh flowers could be had at a fixed, reasonable price. Take a few hints from the way in which other lines of business are conducted, give the matter thought, study and adopt a system and give it a fair trial and improve it if you can. Don't turn the trade away and let the street fakirs come under your very nose and steal away your legitimate profits besides demoralizing the entire trade.

There is one establishment in this city where, if they should enter into the sale of loose flowers and should devote the same energy and tact as they do in all the other departments of their business, they could, I believe, not only dispose of the surplus stock, but would tax the combined efforts of all the growers in this vicinity to supply them material, because they would put brains, skill and capital to work, seeking economy and effective handling of goods by use of glass, marble, refrigeration, electric lights and employment of pretty girls with deft fingers, besides selling flowers at reasonable prices.

Single buds or small clusters of mixed flowers could be sold at a good profit, at 5, 10, 15 and 25 cents each, fresh from the original packages in which they come to market, not faded and torn by exposure to wind and dust, or injured by rough handling as is the case with nearly all street flowers. Customers would not hesitate to buy such flowers and immense quantities could be sold at reasonable but profitable prices if placed attractively before the people. Such places could be established upon our central business thoroughfares, at the ferries, stations, hotels, and possibly in the markets. They could be carried on by individuals or by a company.

But some will say, this would break up the individual florists. I do not think so. The man who sells a rhinestone ring does not necessarily enter into competition with a first class jeweler. There will always be a demand, and a constantly growing demand, for the skill and taste required in the graceful grouping of plants and flowers into forms suitable for special occasions, and this demand will increase as wealth and culture and the love of art expands.

No wide awake florist need be told that there is a constantly increasing demand for plants for all uses except that of personal adornment. The signs of the times surely indicate, and experience will prove,



JAMES TAPLIN.

that palms, ferns, orchids, fine foliage and blooming plants, will supply to a great degree the needs of the future, at banquets, for table decorations, and even for funerals, of course interspersed with choice cut flowers.

People want a change and it is coming. The rose is pre-eminently the queen of flowers, yet it is too much to expect that the world will forever admire it to the exclusion of other flowers far less beautiful. The chrysanthemum will always be a coarse flower with all its culture, yet it is popular and shows that the public craves a change. It has become a fad to affect new styles in flowers as in dress and home adornment. So don't put all your efforts in one and the same direction.

In many cases the florists have allowed the caterers to step in and pocket most of their profits. When a caterer is sent for the first thing he asks is about the flowers and he sometimes succeeds in making people believe he can furnish them better and cheaper than any florist. Then he takes his order to a florist and gets him to do the work demanding the bulk of the profit for himself. Is this right? Suppose he does bring you an order once in a while, he always wants the stuff at half price and it is often hard to get the money out of him then. This is also true to a large extent with the undertaker or funeral director. I think the time has come when the Florists' Club should take a decided stand upon these matters.

We should cater more to the wants of the great middle and poorer classes, for certain it is that the great bulk of our sales are made to them in spite of a common belief that the very rich are our main dependence. At the great holidays like Christmas and New Years quarters and halves and single dollars will pour into your cash box in a perfect stream while the $10, $20 or $50 orders are the exception and are almost invariably charged. And the fact that the trade of the classes noted is cash is a very pleasant feature. If the rich were more prompt in paying their bills the trials of the florist would be considerably curtailed. But you must not turn aside from the rich. Oh, no! To them you look for all encouragement to reach the highest ideal. Your greatest success will be sure to claim their admiration and patronage. And this class is a constantly growing one, receiving large accessions every year. Fortunes are continually being made or inherited and the present generation is being educated in all the refinements of art and culture.

I want to say a few words about the wholesaling of flowers. Philadelphia growers now stand face to face with the most celebrated growers. Flowers are in profusion everywhere, but the great problem of the growers seems to be to turn them to a profitable account. Many thousands annually go to waste in the hands of the retailer; many more yield no return to the grower. In Boston many dealers are extensive growers, in New York nearly all the stock goes through the hands of the commission dealers, while in this city there is a sort of conglomeration of all plans, many growers depending on their own efforts from day to day to sell their blooms. I would suggest that florists adopt some such solution for the problem as is adopted by other producers of perishable goods. A flower market or exchange might be established where the product could be sold at auction or kept in refrigerators until a market is found. Look at the waste of time and expense when thirty or forty men make the rounds of the stores when two, three or four men could accomplish the same or better results under a different system. All producers of perishable commodities have had to meet and solve this same question of means of placing their goods quickly on the market to best advantage, and florists should profit by their experience.

Suppose a place should be fitted up in some central location, near the railroad stations, suitably provided with refrigerators, tables, etc., to which as many growers as could be induced to try the experiment would send their flowers so they would be received as early in the morning as practicable, to be offered for sale at auction. Let them be put up in bundles of say 25 or 50 or 100 as the case may be, by the growers before they leave the greenhouses. Sell them to any who wish to purchase in original packages only and deliver the goods at once. If flowers were in demand they could all be sold in a short time and would bring full value. If any remained unsold they could be placed in the refrigerator and kept on sale or sent out in wagons later in the day and offered to the trade. This place would have to be managed by an individual or firm or company. A commission could be charged for selling and remittances made as required. Of course there would have to be some restrictions and it would probably require time to get into working order, as in the case of any new system, but I believe it to be perfectly feasible. Some might object that a private party wanting flowers could purchase as cheaply as a dealer, but very few private parties would want large lots of the same flower, besides the sale would be held too early in the day for many

private people to attend, and rules could be adopted, if thought best, to sell only to dealers. If such a place could be established and should receive the confidence and support of the trade it would greatly simplify the method of wholesaling flowers. I do not say this is the best plan that could be adopted, but growers would have the satisfaction of knowing that the stock was fairly offered in open market, and know also just what it brought, and if no purchasers appeared he would know the stock would be well cared for and later in the day again offered direct to the trade, when if there was still no call it could be so reported.

If the above plan should not prove acceptable a sort of exchange could be arranged, where the different growers could be represented in one place and offer their stocks to purchasers at stipulated times each day. Whatever be the plan I have faith to believe the time will come when ways and means will be adopted in the handling of flowers and plants of which even the most advanced of us have at the present time but faint conception.

Find out to the exact fraction just what it costs to produce a particular plant or flower. Then dispose of it at the best profit you can get. The day for enormous profits has gone by. Competition is too keen. If one man by skillful management can produce roses at a net cost of 1 cent each, and another finds that after his best endeavors the same quality costs him 5 or 6 cents to produce, the latter had better make up his mind at once that rose growing is not his forte and turn his attention to something else.

I don't believe in luck in growing flowers any more than in any other business. The same conditions produce like results. Let it be demonstrated by broad and sufficient tests just what it costs to produce the different plants or flowers under the most favorable conditions, then the man who produces the finest stock at the lowest price will be sure to get the contract every time. There should be no haphazard methods in growing. I know all will not agree with me in this, but while nature is fickle it must be recognized that the intelligent florist of to-day has every element that goes to make up success in plant culture at his command and under his complete control except that of sunlight alone. And it is a question whether electricity can not be made to do duty even in this direction in the future. Of course accidents are liable to occur, but there are very few so-called accidents that do not imply some bungling on our part to bring them about, either carelessness, forgetfulness, over-confidence in others, bad management or ignorance.

The retailer who hunts about back streets and out of the way places to get cheap rents and then expects to do a big business at small expense will be disappointed. I don't care how choice your stock may be or how cheaply you offer it, the thing can't be done. You must come out into the light where the people are and keep your place bright and shining. Get a corner upon the most populous thoroughfare if you can—it need not necessarily be a large place. But as soon as you allow cobwebs to collect about walls and corners, dust and dirt to settle upon floors and counters, the paper and paint to become soiled and worn or mouldy and dingy, and the general appearance of everything showing signs of decay, that moment your business will begin to deteriorate and you will be on the down grade.

I will not say there are too many in the business, but I do say most emphatically that for a man who does not know the difference between a lily bulb and a sweet potato, or between an orchid and a mushroom, to style himself a florist is a disgrace to the craft, and steps should be taken to prevent such misuse of the title we bear.

A False Report.

EDITOR AMERICAN FLORIST; DEAR SIR: I see in the number of the AMERICAN FLORIST for Dec. 17, under the title obituary, page 403, you announce my death. This false news was published by a German paper. I beg to state that I am very well, and hope you will rectify your information as soon as possible.

Yours truly, VICTOR LEMOINE.

Nancy, France, Jan. 4, 1892.

[Our report was based upon the statement of a gentleman who is in constant communication with the European trade, and we presumed he had his information direct from Mr. Lemoine's family. But we have since learned that his statement was based upon the report in a German paper published at Erfurt and probably the one referred to by Mr. Lemoine. We much regret that the erroneous report appeared in our columns.—ED.]

Washington.

The Executive Committee of the Society of American Florists have come and gone. Their visit was a most pleasant one for the local brethren, and it is hoped equally so for the visitors. The weather was the only unpleasant feature of the event. Three days of rain with but little intermission was the unavoidable program, and on the morning of the fourth day the guests started off in the midst of a snow storm, which would have brought joy to a Canadian.

The local enthusiasm kindled by the presence of so many of the lights of the profession, found its culmination in the banquet tendered on Thursday evening by the National Gardener's Club to the Executive Committee, at the National Hotel. There were present about sixty gentlemen including members of the club, the executive committee and other invited guests. Vice president W. R. Smith occupied the chair.

Toasts were responded to as follows: "The President of the United States," by Maj. H. E. Alvord of the Maryland Agri. College, who spoke highly of the rapid progress being made by the floricultural interests and predicted that in the near future horticulture would occupy a high position as a division of the Department of Agriculture; "Our Commissioners," by Commissioner Douglas; "Our Guests," by Judge C. W. Hoitt; "The Society of American Florists," by Pres. Jas. Dean; "Our Brethren from Abroad," by Mr. J. H. Dunlop; "The Press," by Mr. Knott of the Washington Post; "The Ladies," by Mr. J. R. Freeman; "The Horticultural Press," by Mr. W. J. Stewart; "Our Ex-presidents," by Mr. M. H. Norton; "Our Absent Brethren," by Mr. J. N. May; "Our Finances," by Treasurer Hunt; "The Advance of Horticulture," by Mr. W. A. Manda; "The Columbian Exposition," by Mr. J. T. Anthony; "Horticulture of Washington City," by Mr. John Saul, who said that forty years ago the principal production of the site of the present Botanic Garden was snakes; "The Ethical and Æsthetical responsibilities of the Retail Trade," by Mr. D. B. Long, who was not a bit frightened by the responsibilities of this big title; "The Wholesale Trade," by Mr. P. Welch, who said the subject was rather heavy for a man of his size; "Flowers by Telephone," by Mr. Crandall; "The National Gardener's Club," by Mr. W. R. Smith, who received a tremendous ovation; by Pres. W. S. Clark, who said he wanted to keep the visitors a few days longer, and by Mr. C. F. Hale, who was received with cheers and predicted a great success for the coming convention. One or two bashful members having with reluctancy been excused from speaking, Mr. Stewart was called upon to sing "Annie Laurie," after which the whole company joined in "Auld Lang Syne," and then adjourned.

During the entertainment letters of regret at inability to be present, were read by Sec'y Reynolds from Hon. J. M. Rusk, Secretary of Agriculture; Senators Vance, Wolcott and Gallinger; Hon. J. C. S. Blackburn, J. C. McKibbon, John Thorpe, J. M. Jordan and others. A boutonniere of orchids was placed at each plate, and several handsome baskets of flowers adorned the table.

One of the most pleasing features of the supper and which was commented upon with much favor by the visitors was the presence of so large a number of fine looking young men. It is a good omen when the younger element shows its interest in such an occasion, and the National Gardeners' Club is to be congratulated.

Mr. Manda made a hit when he said that the first planting was done by Adam when he planted his foot in the Garden of Eden.

The health of Mr. Rob't Craig was drunk standing. The unavoidable absence of the Philadelphia friends was much regretted.

There is a splendid specimen of Pandanus utilis variegata at the Botanic Garden said to be the only one in the country.

Mr. Smith has a pair of lively little bantams about the greenhouses. "They're invaluable to us; they see the slugs when nobody else can," says he.

A trip to Mt. Vernon is talked of for the fourth day of the convention next August.

On the occasion of the cabinet dinner to be given at the White House on the 19th inst. the floral decorations will all be in violets. The center piece will consist of a raised placque or shield of purple violets imbedded in which will appear in white violets the American eagle with partially outstretched wings. At each end of the table will be large placques or shields of violets divided diagonally in white and purple while midway between these and the eagle in the center will be large placques of white violets. The permanent oblong center-piece of the table encasing a mirror is bordered on either side at equal distances apart with gilt statuettes about 10 inches in height upon whose uplifted and extended hands small cut glass dishes are borne usually filled with choicest bon bons. On this occasion these sixteen little statuettes will hold aloft thirty-two little bowls of alternately white and purple violets. Placques of violets will be suspended on the walls and the two large marble mantels will be similarly banked high up in white and purple. Festoons of smilax will be appropriately introduced. In place of bouquets the ladies are to be supplied with white silken bow corsage sashes with the guest's name and date of dinner on one lapel and the U. S. coat of arms with the White House on the other, the latter printed from a fine engraving



AGAVE AMERICANA IN BLOOM.

executed at the Government Bureau of Engraving and Printing.

Pfister has his plants in fine order for the coming season and is intently watching his orchids, of which he has several hundred, among them some superb cattleyas and a Dendrobium nobile with 275 blooms on it now, and nearly as many more in prospect. These will be reserved for the diplomatic dinner to be given on the 2d of February next when orchids are to hold exclusive sway. Z.

New York.

The monthly meeting of the New York Florists' Club was held at the usual place on Monday evening Jany. 11, President Dean in the chair. It being the night set for the annual supper no special program had been prepared for the meeting and the routine business was concluded as soon as possible. A communication was received from Mr. Thos. H. Spaulding offering through the N. Y. Florists' Club a silver cup, value $100, as a trophy for the bowling tournaments at the time of the annual conventions of the Society of American Florists.

The conditions are that it shall be open for competition to all regularly organized florists' bowling clubs who shall give fourteen days notice of their intention to compete, to a manager who shall be appointed by the New York Club. Teams shall consist of six men each and the trophy shall become the property of the club which first wins it twice, not necessarily twice in succession. It is also stipulated that it shall not in any case be competed for until after the whole business of the convention shall have been completed. Mr. Spaulding further agrees to offer another cup of equal value, under same conditions as soon as this cup is won by any club.

A communication was received from the Madison Square Garden Company notifying the club that in accordance with other arrangements for the use of the garden it would be necessary that the chrysanthemum show next fall, if held, should close on the evening of Nov. 6; also urging that some kind of an agreement be entered into between the Club and the Garden Co., whereby two exhibitions yearly could be arranged for several years in advance, said agreement to be terminated by one years notice from either party. The committee of arrangements of the club was authorized to take the matter under consideration and make any arrangements which they see fit.

A vote of thanks to retiring President Alex. Burns was passed, and Mr. Burns responded with a little speech.

Messrs O'Mara, Stewart and C. H. Allen were appointed entertainment committee for the ensuing year. Nine new members were added to the roll.

After adjournment the club proceeded to the banquet hall where at nine P. M. about seventy-five members and guests sat down to the annual supper. President Dean, Ex-President Norton, Treasurer Hunt, Secretary Stewart and Messrs Long, Welch, Hoitt, Anthony, Dunlop, Manda and Falconer of the Executive Committee of the Society of American Florists were present. Owing to sickness in the families of several of the more active of the Phila. brethren, the customary contingent from the City of Brotherly Love was absent, much regret being expressed thereat. The table was magnificently adorned with flowers in baskets and vases, contributed by various generous members of the club. There were orchids, nepenthes, roses, carnations, mignonette, tulips etc., in great profusion, also a vase of splendid Wabans from Boston. After the material feast had been disposed of, mental refreshment was in order and many speeches both witty and wise were made by the guests and members in response to the call of Toastmaster Charlie Wethered, whose rotund little figure in its dress-suit was well nigh concealed behind a broad expanse of white napkin. The toast "Our Nights" was responded to by Ex-Pres. Burns in a characteristic manner. The ex-president loomed up grandly in evening dress, but the cigarette did not seem exactly to fit him. Mr. M. H. Norton was called up to respond to "The Society of American Florists", and was melodiously welcomed to the tune of "He's a jolly good fellow". Judge Hoitt followed, his subject being "Our Guests", and President Dean spoke of the "Progress of Our Club". Letters of regret were read from many invited guests, including John Thorpe, H. F. Michell, D. D. L. Farson, A. H. Ewing, G. Oesterle and others. It had been promised that Pittsburg would come "400 strong", but not a solitary Pittsburger appeared.

The hour having arrived for the departure of the executive committee of the S. A. F. for Washington hasty good byes were said and the departing guests sent off with heartiest good wishes. The remainder of the company then settled down to an old fashioned good time to which every one present contributed with a speech, and Fred Weir sang two songs. Finally the toastmaster announced that it was time to close up and go home, the response to which was that the genial Charlie was unceremoniously captured and stood upon the table amid much enthusiasm, where he responded eloquently to the toast "Our Treasurer". His reference to the much discussed flower market, however, settled for the time being, all hope of going home, for it brought to the floor Geo. Stumpp and Lawrence Hafner in a discussion of that disturbing subject, and when the contest waxed cool between these two Mr. John Taylor sailed in and kept the thing a-going. It was a great night.

The cut-flower market has been in a very quiet state during the past week. Fortunately there are not many flowers coming in just now, so the light demand does not work havoc with prices as it would were stuff in full crop. There is a fine supply of good Harrisii lilies now in. Tulips are improved but slightly, and are far from being good and very few of them are sold. Lily of the Valley from this season's pips is very poor, being pale and sickly looking, with almost no leaves. There is some of the old crop still being cut and this is very fine. Yellow narcissus sells well although not yet of best quality. White narcissus is dead stock. Roman hyacinths are doing fairly well. Some of the violets now coming in are superb. The cut of violets seems to just

about equal the demand. There is a good supply of fine Cattleya Trianæ blooms. One window on Broadway makes a grand show of them, but the effect of their beauty is half destroyed by suspending them in cheap looking green glass bottles.

Jos. Mallon & Sons had a great wedding decoration over in Brooklyn on the 12th inst. Both house and Church were profusely decorated with roses and orchids in unlimited quantities.

Winfried Rolker, always genial and willing to discuss trade interests, speaks pleasantly regarding the volume of the supply trade up to date and hopefully as to the coming seed and supply trade for spring. The German prepared cycas leaves seem to give general satisfaction.

Alex. McConnell, speaking of the late James Taplin says that a few years ago when in England he visited the estate of the Duke of Devonshire where Mr. Taplin was in charge years ago. Seeing an old grey headed man working on one of the roads he ventured to enquire of him whether he remembered such a man as Jas. Taplin. "Did I know him? Indeed I did, sir, the best master we ever had, sir," was the reply.

Theodore Roehrs has the condolence and hearty sympathy of all the trade in the loss by death of his little four year old child.

Philadelphia.

The first snow storm of the season came Jan. 5th. It was not one of the old fashioned kind, but served to put a wintry appearence on the face of Nature. Flowers always seem to be more appreciated in such weather and as a rule sell better.

The January meeting of the Florists club was largely attended. The library being in course of renovation the meeting was called to order in one of the adjoining rooms, Mr. Lonsdale presiding, as Mr. Robt. Craig is not able to be about.

The paper read by Mr. Grigg on the "Commercial aspect of the Florists' Business in Philadelphia" was received with marked attention. Mr. Grigg covered the business in its various departments very thoroughly and his remarks will be found applicable to every large city; a great many of the suggestions if carried out, would no doubt be very beneficial to the trade.

A. M. Herr of Lancaster, exhibited a vase of carnations, beautiful specimens of Daybreak, a pink variety of good size and substance. He has great faith in it and will devote several houses entirely to it next season.

An invitation to the club to participate in the annual dinner of the New York Florist's Club Monday, Jan. 11th, was received and accepted.

The following gentlemen were elected to membership:

J. W. Bitner, of Lancaster; A. M. Lawson, Chestnut Hill; F. W. Clinton, Edward Mason, Wm. Dunning, of Phila.; Charles Hopham, George Santman, of Wyndmoor; R. M. Eisenhart, of Holmesburg; and Wm. J. Stewart, of Eastern U. S. W. R. Smith, Chief of Botanical Dept. at Washington, was nominated for honorary membership.

The following gentlemen were nominated for election at next meeting: John E. Andre, of Doylestown; Redding G. Palmer, of same place, and George Rauch, John Crawford, Wm. F. Zeibel, of Phila.

John Plender died Jan. 8th, after a short illness; he was 62 years of age. Mr. Plender was a hard worker and successful in his business. His first experience was with John Dick, he having been a pedler before that time. He managed Mr. Dick's city store for some years, and about 1870 he opened out for himself at No. 10 North 12th St., where he carried on a successful business for fifteen years, when he removed to 26th and Girard avenue. His specialty was funeral and church work. He leaves a wife but no children.

The First Assembly Ball, the event to which florists have been wont to look forward to in the past with a great deal of interest, took place Jan. 15th. It is one of the two fashionable balls given by the Elite each season and which are very exclusive.

Some few years ago the Assembly balls came next to the holidays in point of business, and Boston and New York were drawn on largely to supply the demand. At that time every lady who attended the ball carried flowers, now only the "Buds" are honored, and in consequence there is a great falling off in the number of bouquets and a like depression in the spirits and bank accounts of the florists. One firm alone had a list of over 250 bouquets for one Assembly ball some years ago, which was more than twice as many as were carried on this occasion altogether.

That it might be of interest to the trade as showing the popularity of certain flowers, the following is a description of the bouquets carried: The Mermet was first, there being 25 bunches of this lovely rose, of this number probably ten had lilies of the valley sprinkled through, or in spots, with hyacinths in a few, but the most were of the roses alone. La France came next with twelve bunches, some with valley. The Bride was seen in ten bouquets, some with spots of red and pink roses. Five bouquets of orchids represented this rival of the rose, while quite a number of rose bunches had a fair sprinkling of orchids through them. There were five bouquets of Bennetts; four of American Beauties; four of Laings, three of Magnas, three of Brunners, three of Woottons, three of violets, two of valley, two of Perles, two of Cusins, two of Jacques, two of Waban, two of Sunsets, one of daisies, and one of yellow tulips.

Nearly all had ribbons to match the flowers. Some bunches were small, but the great majority were large, containing from three to five dozen roses. One bunch of hybrids contained 36 fine flowers, while most of the others had two dozen in them. In price they ranged from $5 to $35, the popular price being $10.

Hugh Graham had the decorations. Palms, large white azaleas, Harrisii lilies, poinsettias and tulips were largely used, together with smilax and laurel wreathing.

Business has been quiet the past week, the weather being very bad for producing cut flowers. Mermets and La France are very poor in color and if not sold one day were of no use the next. Prices are down a little.

Charles Fox is down with the lumbago. Mr. Fox is a hard worker, but he had to lay up for repairs. We hope to see him about soon.

Robert Craig is somewhat better, but is still confined to his room and in bed most of the time. He has had a hard time of it. Things about the place look well, the new house of carnations being very fine. Lizzie McGowan has made many friends about here. The fine house of cyclamens before mentioned is nearly empty. The way to sell plants is to grow them fine, they will sell themselves.

SEND IN your order now for a copy of our new Directory, to be issued next month. Price $2.

Chicago.

Several of the Cemeteries around Chicago have gone into the business of raising flowers for market and large consignments from some of them have at times had a depressing effect upon the market, whereat some of the growers are asking whether these companies have any right to enter into competition with them, being exempt from taxation. The matter was brought up in the Florist Club and a committee is looking into the matter. This committee will report at the next meeting, and if their report shows that the companies have exceeded the powers conferred by their charters, the matter will be followed up. If, as is alleged, these companies pay no taxes, then it is certainly unjust for them to be permitted to come into competition with those who bear their share of the public burden.

At the last meeting of the club a committee of five was appointed to act with a committee from the State Horticultural Society in an attempt to secure a larger share of the State appropriation for horticulture and also to advise with those who will have charge of the State building regarding the floricultural display in and around same.

At this meeting Mr. J. C. Vaughan showed two plants of the new dwarf calla, Little Gem. One plant was in bloom and neither exceeded eight inches in height. They attracted much attention and were voted a very taking novelty.

At the first February meeting of the Club Mr. Charles Hartwig will read an essay on the comparative profitableness of roses and carnations to the cut flower grower.

An accident to the heating apparatus at the greenhouses of Mr. O. P. Bassett at Hinsdale last week came very near being serious. Before repairs were successfully made the thermometer had touched the freezing point. But everything is now in running order again. Mr. Bassett left last Friday for California, where he will spend the remainder of the winter.

For the past few weeks Mr. Albert C. Hopkins, president of the Pansy Society of America, has been in the city in the interest of the pansy as the national flower. He has made at various points in the city displays of paintings of the national flowers of other countries and of the various candidates for national flower of the U. S., in addition to U. S. flags with the stars arranged in the form of a pansy. Mr. Hopkins is very enthusiastic and is confident that he will succeed in securing the adoption of the pansy as the national flower of the United States by 1893.

There is little change in the flower market. Stuff of all kinds, and white in particular, remains scarce. In roses the quality of some varieties is improving. Mermets are showing a good deal better color and are of average size. This rose, by the way, is the only sort quite plentiful. Large quantities are worked off in funeral pieces, partly owing to the scarcity of white roses and partly from the fact that many flower buyers nowadays prefer a little delicate shading of color in arrangements of this kind. Woottons as seen in our market are a failure. The flowers are small and mostly off color. Gontiers on the other hand are fine this season and prove a great favorite with flower buyers. If shown side by side the Wootton stands a very poor show, for nine times out of ten the customer will prefer the Gontier. A few choice lots of La France are seen, but the average falls below the standard. Brides are in great

demand. The quality is fair, but good or bad they sell readily at top prices. Perles are still very scarce, which seems strange, as this rose is generally the most abundant sort in the market. The same may be said of Niphetos. Since the advent of the Bride this old standby has taken a back seat. Very few are growing it this year. Beauties are becoming a little more plentiful, but are of inferior quality, with few exceptions. In hybrids we have a few Magnas which take but poorly.

Of carnations the supply is large and of very good quality and the demand for this flower is equally good. Of the colored sorts Tidal Wave easily takes the lead. This variety is uniformly well grown and some lots are really superb. Portia comes next, also very fine. Garfield has been backward, but is beginning to exert itself again. In white Lizzie McGowan stands first, but very few flowers are grown here as yet of this variety, and more is the pity; Silver Spray supplies the bulk of this class. A few Lamborns and Mrs. Fisher are showing up well. In pinks Grace Wilder is plentiful, but with few exceptions the quality is poor. You may pick up a bunch of 100 and not find one perfect bloom, the calyx of every flower being burst. Annie Wiegand and Daybreak grown in small lots are fine; let us hope to see more of them.

Violets are very scarce and in great demand. In bulk stuff of all kinds the supply is very light. Valley is getting better, but there is plenty of room for improvement yet. Romans, Paper Whites and freesia meet with ready demand. Tulips are coming in, but are very short stemmed and sell poorly. Harrisiis are plenty and very fine.

Toronto.

The Gardeners' and Florists' Club is no more, but in its place there is now the Gardeners' and Florists' Association with a brand new constitution and over 100 members in good standing with life and vigor enough in them to make things hum this coming year if they will stick together and work with a will. The change from "Club" to "Association" was made for several important reasons, chief among which was the undeniable fact that if ever the organization wished to ask any favor of the Government (which is not at all unlikely) "Association" would be a more impressive name than "Club", the latter being often used for organizations with not particularly elevating objects in view. First impressions stick in some peoples' gizzards a long time and might seriously prejudice a good cause. There *is* something in a name.

Botanic Gardens are now being seriously agitated for and measures are now being taken for all the societies in the country who are interested in the matter to take concentrated action. Almost all the British Colonies, big and little have Botanic Gardens, but Canada, the biggest of them all, has not yet even a nucleus for one. The Association certainly ought to make a big push in this direction this year and with the aid of the other Societies impress the Government with the necessity of its doing something if it is only to make a beginning.

A chrysanthemum committee has been appointed and instructed to compile a prize-list for the show of 1892 and submit to the Association for approval at its next meeting.

Mr. Geo. Vair laid several very fine orchid blooms on the table at the last meeting of the Association, amongst which were Angræcum sesquipedale, Cœlogyne cristata, etc. At every meeting some one of the members brings a specimen or some specimens of various flowers and lays them on the table for inspection and it was moved by Mr. Gilchrist and carried that the President appoint a committee every meeting to report on the flowers brought. A meeting or two ago Mr. G. Hollis of Davenport near Toronto, brought a specimen of a very fine and large white carnation he had raised from seed hybridized by himself. By means of this committee any worthy object will receive the notice it deserves.

It is reported that the florists here intend to follow the example of a well-known grower, etc., in Pennsylvania and will have specified on their bill and letter-headings their particular vocation. There will be besides carnationists and rosierists, smilacists, palmists, violettists, mummists, (or mummers), pansierists, felicierists or polypodiacierists. E.

Buffalo.

Our city has had more than its share of snow this past two weeks; almost 30 inches fell in three days. It has not stopped the sale of flowers yet, and a few clear cold days has much improved the quality of roses (especially Mermets) grown in this neighborhood. It seems warm and cloudy weather is the most unfavorable for the production of good roses. Tulips of very fine quality are plentiful in the florists' windows with only a limited demand for them.

A recent visit to the house of James Milley of Masten St., brought out the statement from son William that they had had experience enough with Mrs. Fisher carnation. We all have the same story to tell. It is a fine white flower, but the plants die one after another. This may be peculiar only to this neighborhood. It renders this fine variety valueless to us. Mr. Milley takes the premium on growing that most useful Begonia "incarnata grandiflora" (is this right Mr. Falconer?); his flowers and foliage have more color and substance than we have ever noticed elsewhere. What an indispensable thing this is for mid winter use, either cut or as pot plants? Mr. M. has also some fine plants of B. "semperflorens gigantea rosea." This is a grand and showy plant and well adapted for a window plant.

J .F. Cowell (of blue chrysanthemum fame) has by careful selection from various sources obtained a strain of primula that is hard to beat. Some of the world famous strains of Europe are "not in it" by the side of the Professor's.

Mr. D. B. Long attended the annual banquet of the New York club and no doubt took the opportunity to personally thank the New Yorker's for their very kind invitation sent to our officers and members.

Business among the craft generally rather quiet outside of what the Grip is doing for us. For this season large entertainments are scarce. Rumor has it however that from now till Lent the happenings among Buffalo's "400" will be quite gay. G. S.

St. Louis.

Business remains quiet. Flowers are plentiful and prices steady. Pandanus utilis and palms in variety are selling well.

The firm of Rieman & Chandler, doing business at 717 Olive St. and 218 North Grand Ave., has been succeeded by the Chandler Floral Co., incorporated with a capital stock of $2,500.

Last Thursday's meeting of the Florists' Club was interesting and well attended. There were several new members elected. The committee on "Crape Pulling" reported as follows: Resolved, that the St. Louis Florists' Club condemns the practice of soliciting orders for flowers of bereaved families, and, would also recommend that all growers, wholesale and retail dealers refuse to furnish flowers to those that are known to be engaged in what is known as "Crape Pulling". The resolution was unanimously adopted.

Mr. Jordan led an interesting discussion on roses. His experience tends to make him think that the American Beauty should be somewhat starved as regards quantity of soil, and should not receive much fertilizer.

A specimen of Stanhopea Wardii opened its beautiful and strongly perfumed blossoms at the Missiouri Botanical Garden, on the 14th. On the third day from opening the perfume was gone and the flowers showed signs of decay. The ephemeral nature of all the thirty or more species of stanhopea of course detracts from their value as cut flowers, and also makes them somewhat undesirable for small collections. S. Wardii blooms with us about three times each year making a good illustration of the free blooming habit of this beautiful genus.

The Garden has a very fine collection of agaves, century plants as they are commonly known. In this collection is at least one undescribed species. This fact was discovered last spring, when a plant formerly known in the garden as A. attenuata subdentata came in bloom. An agave is blooming now. It may be A. Nissoni, but this is doubtful. The lenghth of its flower spike is nine feet and nine inches, and from the bottom of the tub the full length of the plant is eleven feet and three inches. This agave started to bloom on Jan. 6th and will probably continue in blossom for several weeks yet. The flower spike started to grow fifty-seven days before the first flower opened. In twenty-four hours the maximum growth was 4 and 15-16 inches, the minimum $\frac{3}{8}$ of an inch, and the average 2 and 1-11 inches. The yellow flowers are thickly placed in twos and threes on the spike. J. W. D.

Boston.

A week of rainy weather with dog day temperature has not been conducive to great activity in the cut-flower business. Roses are in fair quality considering the weather, carnations are excellent, and violets are of good average size and color. There are but few extra fancy roses in market, the general demand for hybrids and American Beauties being too uncertain to encourage the growth extensively of these at so early a date, but there are some very fine crops in shape to come in later. Marguerites, nasturtiums, golden coreopsis and such odd little things are to be seen in all the florists' widows here and they add much to their attractiveness besides selling very well. There are some good azalea plants coming in now from the local growers.

The wholesalers report a good steady shipping trade ever since the holidays, with a strong demand for white flowers.

There are rumors of one or two new flower stores which are to be started in the city.

The members of the S. A. F. Executive committee have all returned from Washington with the appearance of having been well-fed and carefully cared for. The recently married member made a bee

line for home as soon as he struck town. The others got home at their leisure.

Hartford & Nichols are mourning the loss of $75 and a clerk. The clerk would not have gone without the $75, and the $75 would not have gone without the clerk, so they must have both gone together.

Newport, R. I.

The annual meeting of the Newport Horticultural Society was held Jan. 13, when the following officers were elected for the ensuing year: President, Andrew K. McMahon; first Vice President, James McLeish; second Vice President, Lucius D. Davis; Recording Secretary, John J. Butler; Financial Secretary, Alexander McLellan; Treasurer, Richard Gardner; Sergeant-at-arms, William Smith.

The society is in a sound financial condition and is constantly adding new members to its roll. The very fine display of chrysanthemums made at the last exhibition was the means of bringing in some members who are not gardeners but have a fondness for plants and flowers and wish to assist the organization as far as it lies in their power.

If satisfactory arrangements can be made the society will hold a rose and strawberry show next June; an appropriation has already been made for this purpose. An exhibition of palms and orchids to be held on the Casino grounds has been favorably talked of and, if the governors of the Casino will co-operate with the society and the necessary outside encouragement is guaranteed, a show of this kind will be held. The society has completed its schedule for next fall's chrysanthemum show.

JOHN J. BUTLER, Sec'y.

Montreal.

Trade has not been any too good here since the holidays. Everyone says "things are quiet." Mr. "Grip" is probably to blame for this state of affairs. The regular monthly meeting of the club last Tuesday was fairly attended, Jules Betrix giving a short essay on the amaryllis and W. Wilshire on table decoration. The latter subject was to have been taken by C. Campbell, but Colin failed to show up. The advance list for the mum show was read and left for one month before being printed.

Wm. Cooper disappeared suddenly about two weeks ago, leaving a few dirty pots in the store to pay his debts.

Genial John Walsh was very bad with grip and has not quite recovered yet. His father has just died of the same thing at Greenfield, Mass.

A question for a carnationist: What is the reason that Garfield so often goes single? Is there no remedy? This question came out of our question box at the meeting and no one could give a satisfactory answer. J. B.

Minneapolis.

Christmas trade was very much better than last year. There was a good supply of flowers but everything was sold out. There are very few flowers made up in bouquets and baskets now, most all flowers being sold loose. Holly and lycopodium is mostly handled by commission men, who sell retail same as wholesale, which gives retailers a small chance.

New Years trade was much better than last year. Everything was sold out so close that for two days after it was hard to get even a few flowers. Trade has been dull through the winter. N.

News Notes.

MUSKEGON, MICH.—C. L. Whitney has opened a down-town retail store here.

PORT LEVACA, TEX.—Mr. J. VanDoyen is preparing to establish a nursery here.

IOWA CITY, IA.—Bad weather and grippe made holiday trade poor. Flowers were plenty.

BALTIMORE—Brackenridge & Co., who have long had greenhouses at Govanstown, have opened a city store at 304 W. Madison St.

SEA CLIFF, L. I.—Mr. Ferdinand Boulon, the nurseryman and florist here, has been dangerously sick of pneumonia, but now is improving favorably.

KANSAS CITY, MO.—Our Christmas trade was considerably better than last year. Prices good. Stock much finer and more plenty, though still not equal to demand. Palms, ferns, and Romans in pots sold well.

ALBANY, N. Y.—Among the numerous floral tokens received by the members of the legislature at the opening session was an immense tiger gay in stripes of red and white carnations, which was sent to Senator Hagan by the Anawanda Club.

WATERLOO, IA.—The most satisfactory holiday trade of an experience of ten years. Refused to take an order except what could fill out of my own house (which did not supply one-fortieth of the demand). Result: No kicking over stale flowers and exorbitant prices.

PALO ALTO, CAL.—The series of popular lectures at the Leland Stanford Junior University begins Feb. 15. "Insects injurious to fruit in California" is one subject. At the same time a series of lectures on fruit growing will be given by Mr. Emory E. Smith, editor of the *California Fruit Grower*.

NEW ALBANY, IND.—F. Walker & Co. have at this date a good supply of chrysanthemum blooms and expect to have a supply until March. This firm has built during the last year a fine house 20x146, for roses, and put in an additional steam boiler. They will build an additional house next summer.

WINONA, MINN.—Holiday trade was very good. Not enough roses to supply demand. W. Smith has closed his greenhouses. He says it don't pay him to heat them. He will start a cut flower store here. The woodlawn Cemetery Association has erected two greenhouses, 11x70 each, to grow bedding plants for their grounds.

QUEENS, N. Y.—Mr. William Falconer of Glen Cove, has purchased a fine property close by the R. R. station here. It consists of a 20-acre square block of level, fertile land lying between the railroad and turnpike, with a 1,000 ft. front on the main street. There are a dwelling house, barns and other buildings on it. As Mr. F. does not intend to occupy it himself he has rented it to a market gardener.

SHEBOYGAN, WIS.—Cards are out announcing the wedding of Miss Lizzie, daughter of florist Otto Schucht, Jan. 26. Miss A. Schucht, who has been so successful in conducting the retail store, has retired from the business and her place will be taken by her brother William. The latter is also counting the days between now and his wedding day. Currie Bros., of Milwaukee, have established an agency here.

LITTLE ROCK, ARK.—At the last meeting of the Little Rock Florists' Club officers for the ensuing year were elected as follows: J. W. Vestal, Pres.; M. W. Herron, Vice-Pres.; D. M. Tipton, Sec'y; Chas. Vestal, Treas. After quite a discussion it was decided to have a chrysanthemum show next fall. Christmas trade was as good as last year for loose flowers, the call being mostly for roses. Hyacinths were dull. Very little made up work; less than ever before.

UTICA, N. Y.—There was a large attendance at the meeting of the Utica Florists' Club Jan. 6. Mr. Wm. Mathews read a very able paper on "Follies of Plant Growing," pointing out in a manner not to be mistaken the dangers attendant to injudicious culture. He spoke of the evil of overgrowth, which over-stocks the market, and as a result creates low prices. He thought it far better to have the production less. He also urged the cultivation of the best class of plants and the abandonment of poor varieties. The sentiment of the address seemed to be fully agreed with by those present. The club is a most prosperous organization. A popular and valuable feature is the question box, conducted at every meeting.

Diseased Roses.

I wish to ask through the columns of your valuable paper, if you or any of your subscribers can inform me what is the matter with my roses. I never heard of such a thing as flowers having the grip, but it looks as if my roses had a touch of this universal disease. The plants appear to be healthy, but when they make young leaves, a small spot of a yellowish green color comes on them. On the side of the leaf, where the spot appears, the leaf does not grow much, but the rest of the leaf keeps on growing, which makes the leaves have a dwarfed appearance. The flowers also are not perfect in form, the crop is light, some of the smaller young shoots do not hold their buds, but drop them, also the plants seem to grow very slowly, as this complaint seems to affect the whole bush. I have asked my neighbors, but no one seems to know what it is or to know of any remedy. If you or any of your readers can give me any information they will confer a favor on an old subscriber.

J. K.

Diseased Violets.

ED. AM. FLORIST: Will you kindly make inquiry in your paper as to the nature of a disease which is at present affecting certain kinds of double violets. A blight seems to come suddenly on the edge of the leaf, which turns black and then white, and gradually rots away. There are no spots, as in the case of the single violets which have the decease.

Double violets in frames propagated at the same time as those in the house, and grown in the same ground during the summer, are not diseased. J. L.

TO THOSE who have been looking for a continuation of Mr. Menand's recollections we would say that we shall undoubtedly present another installment in next issue. We expected to certainly be able to continue the recollections in this issue, but pressure of news matter has forced us to lay over for still another week, this and several other articles.

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GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "**DORINDA,**" a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

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Winner of the Ladenburg Cup for best pink
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of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

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EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

PURITAN.
NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:
Rooted Cuttings.....$8 per 100; $70 per 1000
From 2¼-inch pots, $12 per 100; $100 per 1000.

Send for catalogue with full description of this and other varieties.

WOOD BROTHERS, Fishkill, N. Y.

ROOTED CUTTINGS **CARNATIONS** ROOTED CUTTINGS.

A FULL LIST OF CHOICE SORTS,

Tested Novelties and Prize Varieties

NOW READY.

Address H. E. CHITTY,
PATERSON, N. J.

ROOTED CUTTINGS OF
CARNATIONS

Nice, healthy Rooted Cuttings of Carnations of all the leading and newer sorts, in any quantity after Dec. 10th. Orders received for future delivery at 10 per cent. discount from price list. Correspondence solicited.

JOSEPH RENARD, Unionville, Chester Co., Pa.

WAIT

For our Carnation list before ordering.

Send your address to

GEO. HANCOCK, Grand Haven, Mich.

25,000 ROOTED CUTTINGS
CARNATIONS
NOW READY.

New and Standard sorts, all grown from fine healthy stock. Send for price list.

GEO. B. WHITEHEAD, Green's Farms, Conn.

CARNATIONS.

Well Rooted Cuttings of LIZZIE McGOWAN, GOLDEN GATE, L. PORSCH, TIDAL WAVE, J. J. HARRISON, DAWN, LAMBORN, PORTIA, FRED CREIGHTON, DOLLY VARDEN and others. Cheap for cash. Send for prices.

Also 10 vars. Chrysanths, L. Boehmer, L. Canning, Cullingfordii, Carnegie, Bride, etc., $1.00 per 100, my selection; your selection, $1.25.

P. O Box 169. **F. FRANCIS, Oshawa, Canada.**

ROOTED CUTTINGS.
Descriptive Price List now ready.

Not all the Carnations that grow, but the cream of those that are worth growing. The same is true of Coleus, Geraniums and other stock.

This list will be sent to all those who received my descriptive list without application, and to others who apply.

ALBERT M. HERR, LANCASTER, PA.

The New Carnations. ROOTED CUTTINGS.

INTRODUCERS' STOCK OF

GOLDEN TRIUMPH, PEARL, AURORA, THOS. CARTLEDGE, PURITAN, GRACE DARLING, CRIMSON CORONET, PEACHBLOW CORONET.

—— BEST VARIETIES OF LAST SEASON AND STANDARD SORTS. ——

Lizzie McGowan, Hector, Mrs. Fisher, Golden Gate, Fred Creighton and other good ones in any quantity.

——) SEND POSTAL FOR DESCRIPTIVE TRADE LIST. (——

30 varieties CARNATIONS. 36 varieties COLEUS. Best bedding GERANIUMS.

ALEX. McBRIDE, Alplaus, N. Y.

ROOTED CARNATION CUTTINGS.

Portia, Robert Craig, Grace Wilder and Hinze's White, $1.50 per 100
Tidal Wave, $2.00 per 100.
Lizzie McGowan, $3.00 per 100.

DAVID CLIFFE, Germantown, Philadelphia, Pa.

You can save dollars by printing your spring trade list in the AMERICAN FLORIST.

Place your Orders at Headquarters for

"Grace Darling,"

THE LEADING NEW PINK CARNATION of '92.

Received First Premium at Penna. Hort. Society, Philadelphia.

And Awarded Certificates of Merit and Honorable Mention at New York, Boston, and Baltimore.

Growers of Carnations exclusively, send for general price list.

CHAMBERS BROS.,
TOUGHKENAMON, Chester Co., PA.

PANSIES AND OTHER STOCK
For Fall Planting.

	Per 100	Per 1000
SMILAX, 2½ inch pots	$1.50	$12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CHRYSANTHEMUMS, large stock plants in variety	20.00	

Address **J. G. Burrow,**
FISHKILL N. Y.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

CARNATIONS

Rooted Cuttings, 50,000 now ready of the following varieties:

Silver Spray, Hinze's White, Mrs. Fisher, Jeannette, Portia, Grace Wilder, Fred Creighton, Anna Webb, and Century,
$1.00 per 100; $10.00 per 1000.

Lizzie McGowan, Hector and Florence, $2.50 per 100. American Flag, $2.00 per 100 Orange Blossom, $3.00 per 100. Ready Feb. 1st.

Fuchsias, finest varieties	$ 1.50 per 100
Heliotrope	1.00 "
Ageratum dwarf white and blue	1.00 "
Petunias dbl. white and variegated	2.00 "
Bouvardia double pink and white, stock plants	10.00 "
Pansies from seed bed, extra fine	5.00 per 1000
Daisies	3.00 "
2000 field grown Jack Roses	10.00 per 100

Cash with order. 10 cts. per 100 extra when ordered shipped by mail.

JAMES HORAN, Florist,
BRIDGEPORT, CONN.

Carnation Cuttings.
NEW AND STANDARD SORTS.

SEND FOR PRICE LIST.

WM. SWAYNE,
P. O. Box 226. KENNETT SQUARE, PA.

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN,** besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

CLEMATIS.

Strong heavy plants.....doz. $4.00
Lighter, equal to imported..... " 3.00

ROSES—H. P. 2 year, own roots, choice kinds.....per 100 $10.00

DAHLIAS—50 vars., whole roots, proved sorts.....per 100 $8.00

F. A. BALLER, Bloomington, Ill.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate:
Inch, $1.40; Column, $14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address **THE AMERICAN FLORIST CO., Chicago.**



Answers to Queries.

ED. AM. FLORIST: I note "Some Queries," page 463 of Jan'y 7th issue, on carnation growing. I expect you will have replies from several expert specialists on this subject, but feel tempted to offer you the best results of 20 years experience in this neighborhood. In this big country (geographically) the same rule will hardly apply to all sections alike. Time of lifting and perhaps propagating must I think differ between St. Paul, Minn., and Atlanta, Ga., or even between Western New York and Chester Co., Penn. Your enquirer, "E. G. B.," does not give us the locality he expects to operate in, and now for the experience.

Question 1. This applies to any florist establishment for whatever it is used. All boiler pits should be floored with brick or cement and walls of brick or stone. It will be much money saved in the end and is absolutely safe.

2. The chimney for hot water boiler should not be less than 16 inches square. This gives one brick thickness and an 8-inch flue, which should be well plastered inside and built one inch at least away from any wood work.

3. The best results have come from three-quarter span houses facing south or still better a little east of south; 22 feet is the most economical width, giving three narrow paths and four convenient benches.

4. I much prefer the benches to solid beds.

5. After trying various depths of soil five inches gives me the best results and with a proper dressing in the month of April will carry the plants through in good shape till time to plant again in fall. Have had fine crops of carnations grown in many different textures of soil, but prefer a yellow loam rather on the stiff side with an addition of one fifth of rotten hotbed manure. The boards of the benches should be 5 or 6 inches wide and one quarter or half an inch apart.

6. The distance between plants must depend upon the size of plants when lifted from the field and also whether you intend to grow them till Easter only or to carry them through the summer, and some varieties need more space than others. Ten inches is a good average space between plants; with good care they can be grown eleven months on the bench at this distance.

7 and 8. A good healthy stock of carnations and the proper cuttings will strike in any cool house with or without bottom heat, but an ideal propagating house for carnations would be where the temperature of the house was 50° and the sand 65° and shaded only from bright sun. I do not believe in those dark north side places so often used.

9. You should take cuttings for your own use, the same as you would to sell and that only the best. The top of the long shoot about ready to show buds is not the right cutting, neither is that stubby thick growth from the base of the plant any good for a future healthy plant. The cutting to produce a thrifty, fast growing and early blooming plant is the side shoots you get from the flowering stem. But varieties differ greatly in their growth and only experience will teach you how to handle different kinds.

Buffalo, N. Y. WM. SCOTT.

A BOUND COPY of Vol IV of *Garden and Forest*, has been received from the publishers, New York. This handsome weekly maintains its high standard and is a credit to American horticulture.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a young man of 18 years of age, as florist, being in business 3 years can show good references; willing to work, and steady hand. Address
J F, care American Florist, Chicago.

SITUATION WANTED—As manager or foreman; thoroughly versed in growing roses, plants, propagating, bulbs, etc; also making up. Over 20 years' experience; references; good wages wanted. Address FLORIST, care American Florist.

SITUATION WANTED—As foreman or manager; thorough, practical knowledge of growing roses and florist stock; decorating and designing. Capable and reliable in any department. Good wages wanted. Address W, care American Florist.

SITUATION WANTED—By a married gardener, to take charge of a private place, cemetery or public park. Had over 12 years' experience. First-class references. Thoroughly understands all branches of the trade. RITCHIE, care Am. Florist.

SITUATION WANTED—By a young man who had good training at the Michigan Agricultural College conservatory. A little training in commercial line. Wages not so much an object as chance to learn and improve. Good references.
FRANK M PAINE Rockford, Mich

SITUATION WANTED—By intelligent, energetic florist and gardener, age 25 years, has had experience in the leading places in Germany and this country, capable to take charge of any establishment, private or commercial. Not particular in what part of the country. First-class position desired. Good satisfaction guaranteed. Address
C L, 751 Hinman St, Chicago.

WANTED—200 second-hand sash, 3x6 ft., by Aug. 1. State price. H. S. ROOP, Westminster, Md.

WANTED Catalogues of leading florists and nurserymen. J H HOLLAND,
Illinois State Reformatory, Pontiac, Ill.

WANTED—An experienced, sober, reliable rose grower; married; no children Address
S E, care American Florist, Chicago.

WANTED—Florists to send price lists of rooted bedding plants, and seedsmen's catalogues
A. E. WOHLERT, P. R. R. Co. Garden, Altoona, Pa.

WANTED—Young man of pleasing address, experienced, faithful, well recommended, to take charge of flower sales at a southern winter resort. Address F W, care American Florist.

WANTED, FOREMAN A man fully competent to take charge of the entire outdoor work of a commercial nursery—fruit and ornamental stock. Can secure a permanent situation by addressing
THE BELLEVUE NURSERY, Hammonton, N. J.

WANTED To buy a greenhouse with about 5 000 ft., more or less, glass, in a town of Indiana or Illinois or Iowa; the place must be stocked for spring; also doing a good business the year round. Address W E B, Danville, Ill.

WANTED—A good rose grower for commercial place who has had experience in growing other stuff also. Address SUN, care American Florist, stating wages expected and giving references. A good place for a first class man

WANTED—A young man with some experience in growing plants, and in cut flower work. Must be of good habits and come with good recommendations. Address, stating age, years of experience, nationality, references and salary expected,
D. B. WOODRUFF, Macon, Ga.

WANTED—An assistant to grow roses, carnations and bedding stuff; must be quick at work and take a lively interest in the business. Good recommendations necessary. Wages $25 00 per month and board. Address
JOHN RECK, Bridgeport, Conn.

WANTED—An honest, sober, respectable man as foreman in general nursery, thorough, practical experienced in packing, growing and general run of the business, quick and good worker. Reference required as to character. Moderate education, with a head for business. State wages expected, experience and reference. Also a young man or boy as assistant with some experience in general run of greenhouse. German preferred. State reference, wages, etc ISAAC C. ROGERS, Moorestown, N. J.

FOR SALE—On account of death, five greenhouses, Hitchings boiler, barn and house including lots 160x180 Splendid retail business.
MRS. FRED. WINTERER, 14 E. 31st St, Bayonne, N. J.

FOR EXCHANGE—A well improved 160 acre farm, situated 6 miles northeast of Toulon, Ill., 4 miles from R. R station, for greenhouse or material to build. Address
T. Z. MAGARRELL, Kewanee, Ill.

SEED TRADE.

WANTED—Able and enterprising salesman, 25 to 35 years old, with good general knowledge of the seed and plant business, one accustomed to handling market garden trade preferred. If of good character and habits, address
JOS. B. RECK & SONS,
51 and 53 North Market Street, Boston, Mass.

FOR SALE.

Five greenhouses in Coatesville, Pa., with blooming plants, lettuce and carnations ready for market. First-class local trade. No competition. Owing to the death of Mr. Baker, an excellent opportunity is offered for any one wishing to engage in the business.
H. ANNA BAKER, Coatesville, Pa.

SHERIFF'S SALE.

The greenhouses of Emil Mailander, at 1602 W. Madison St., Chicago, Ill., consisting of 3,500 feet of glass, with flower store in front, will be sold by the Sheriff, Tuesday, January 26th, at 10 a. m., at the east main entrance on Clark St. of the County Court House, Chicago.

REMOVAL.

BURNS & RAYNOR,

Wholesale Florists,

HAVE REMOVED TO

49 West 28th Street, NEW YORK,

where they will have larger store space and better facilities for their rapidly increasing business. Their method of **Shipping Roses** has given them a large out of town trade and for good flowers, especially **Beauties** and **extra choice Roses** the above address is **Recognized Headquarters.**

Please mention American Florist.

CUT SMILAX

Over ¼ acre solid beds. First-class quality, 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.
JOS. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price-list write for same.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.
Mention American Florist

JOHN C. BRUCKNER,
(Successor to E. J. HARMS),
WHOLESALE DEALER IN
CUT FLOWERS,
AND FLORISTS' SUPPLIES,
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

C. STRAUSS & CO.
GROWERS OF CUT FLOWERS.
—) WHOLESALE ONLY. (—
SPECIALTY.—Filling Telegraphic Orders.
WASHINGTON, D. C.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
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Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S PENNOCK.)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

Wholesale Markets.

Cut Flowers.

BOSTON, Jan. 19.		
Roses, Bon Silene	4 00	@ 6 00
" Gontier	5 00	@ 8 00
" Niphetos	6.00	@ 8.00
" Perle, Sunset, Wootton	8.00	@10.00
" Mermets, Brides	10 00	@12 00
" La France	10 00	@15.00
Carnations, short	1 00	@ 1 50
" long	1 50	@ 2 50
Harrisii Lilies		16.00
Valley		6 00
Romans, Narcissus		4 00
Marguerites		1 50
Violets	1 00	@ 1 50
Smilax		12.00
Adiantums		1 50
Adiantum Farleyense	10 00	@20 00
NEW YORK, Jan. 19.		
Roses, Gontiers, Niphetos	4 00	@ 6.00
" Perles, Sunsets	4.00	@ 6 00
" Cusins, Watterilles	4 00	@ 6 00
" Mermets, Brides	6.00	@ 8.00
La France	10 00	@12 00
" Beauties	25.00	@75 00
" Alexieff, Magna Charta	25 00	@50 00
Carnations	1 50	@ 2 00
Violets		1.50
Mignonette	2 00	@ 4 00
" extra	8 00	@12 00
Harrisii		15 00
Tulips		4 00
Romans		2.00
Valley	2 00	@ 4.00
" old crop		6.00
Cattleyas		50 00
Cypripediums		15.00
Smilax		12 00
Adiantums		1 50
PHILADELPHIA, Jan. 19.		
Roses, Brunners	50 00	@60 00
" Laings, Magnas	40.00	@50.00
" Beauties	30 00	@40.00
" La France, Albany	10.00	@12.00
" Mermets, Brides, Bennetts	10 00	@12.00
" Cusins, Watteville	8 00	@10.00
" Perles, Niphetos	5 00	@ 6.00
" Gontiers	4 00	@ 6.00
Valley		4 00
Carnations		2 00
" Wilders	2 00	@ 3.00
Mignonette	2 00	@ 4 00
Freesia		2 00
Romans	1 50	@ 4.00
Violets		1.00
Smilax		15.00
CHICAGO, Jan. 19.		
Roses, Am. Beauties	15 00	@25 00
" Mermets, La France	7 00	@10 00
" Albany, Bride, Waban	7 00	@10.00
" Bennetts, Dukes	7 00	@ 9 00
" Perle, Niphetos	5 00	@ 7 00
" Gontiers	3 00	@ 5 00
Carnations, short	1 50	@ 2.00
" long	1 50	@ 2.50
Romans, Narcissus	3 00	@ 5 00
Callas	12 50	@18.00
Violets	1 50	@ 2 00
Smilax	15.00	@18 00
Adiantums		1 25
Valley	4 00	@ 6.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order.

EDWARD C. HORAN,
Wholesale Florist
34 W. 29th Street, NEW YORK, N. Y.
Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
Mention American Florist.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST
32 West 30th Street,
NEW YORK.
ROSES SHIPPED TO ALL POINTS.
Price List on Application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

GEO. MULLEN,
WHOLESALE FLORIST.
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
18 Chapman Place, BOSTON, MASS.

YOU MAY THINK
you know all about it, but do you? The use of LONG'S FLORAL PHOTOGRAPHS while taking orders of your customers will do more for you over and again than you might think. A trial is convincing to any enterprising florist. Circular list with prices, free.
DAN'L B. LONG, Florist,
BUFFALO, N. Y.
Mention American Florist.

FLORAL DESIGNS,
The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

CARNATION BLOOMS.
IN FANCY COLORS—LONG STEMS.
I solicit standing orders from florists and others throughout the country, as I make a specialty of shipping them long distances safely by express.
WANTED! 50 plants or more of Scented Geranium London Blue. Mail sample plant or foliage with price, to the undersigned.
CHAS. T. STARR, Florist, Avondale, Chester Co., Pa.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

American Seed Trade Association.

The Executive Committee of the American Seed Trade Association met January 18 at the Sherman House, Chicago.

There were present President Barteldes, Messrs. Bushnell, Willard, Leonard and Secretary Don.

An outline programme was prepared covering several important topics of interest to seedsmen which it is believed when carried out will make the coming meeting at Hartford one of the most interesting and valuable sessions ever held in the history of this organization.

President Barteldes reports a brisk wholesale trade at improved prices. He says that when Ohio dealers inquire for Wardwell's Kidney Wax Beans in Kansas it is an indication of scarcity.

MR. ROBERT GEORGE has been suffering from an attack of the grip for two weeks or more.

MR. WM. F. EVANS of Montreal is in a serious condition from a partial stroke of paralysis.

THE SIBLEY Seed Warehouse at Rochester, N. Y., valued at $50,000, was destroyed by fire January 12.

RICHMOND, VA.—The buildings on the place occupied by T. W. Wood & Co. were destroyed by fire a few days ago, at a loss of about $5,000, upon which there was $3,500 insurance.

ROCHESTER, N. Y.—An over heated furnace set fire to the woodwork in one of the greenhouses of Crossman Bros.' seedhouse on Monroe avenue on the evening of January 8. Loss on plants and seeds about $500.

Catalogues Received.

Wm. Elliott & Sons, New York, seeds and bulbs; Gause & Bissell, Richmond, Ind.; plants: Benj. Grey, Malden, Mass.; aquatics: James Vick's Sons, Rochester, N. Y., seeds and plants; Plant Seed Co., St. Louis, seeds; Robert Owen, maidenhead, England, chrysanthemums; E. M. Cole, Pella, Ia., seeds; Thos. H. Spaulding, Orange, N. J., chrysanthemums: Griffith, Turner & Co., Baltimore, seeds and tools; The Cottage Garden, East Moriches, N. Y., carnations, chrysanthemums and pansies.

MESSRS. ENDRIS & GRESSER, Havelock, Ill., send us a bunch of lily of the valley of splendid quality, the best we have seen this season. Also a bunch of violets of good quality. They say that they have never had the disease in their stock.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Polyantha Rose

CLOTILDE SOUPERT. This is one of the best roses for pot culture. For spring trade we have this rose by thousands, in 2-inch pots.

N. ADMIRAL,
City Greenhouse, DANVILLE, ILL.

ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

READY FOR Immediate Delivery,

30,000 LOW BUDDED ROSES.

Ulrich Brunner. Baroness Rothschild.
Magna Charta. Persian Yellow.
Mme. Gabriel Luizet. La France, Etc., Etc.
$10 per 100; $90 per 1000.

Gen. Jacqueminot, 2 years old, own roots $12.00 per 100.

HULSEBOSCH BROS.,
Box 3118. NEW YORK CITY

ROSES.

FIRST-CLASS STOCK ONLY, for forcing.

LIST READY FEB. 1st. WRITE YOUR WANTS.

M. A. HUNT,
TERRE HAUTE, INDIANA.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.
The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.
Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

ROSES.

FINEST STOCK FOR FORCING IN THE NORTHWEST.

SMITH FLORAL CO.,
77 Seventh Street, MINNEAPOLIS, MINN.
Mention American Florist.

Verbenas

FOR ALL.

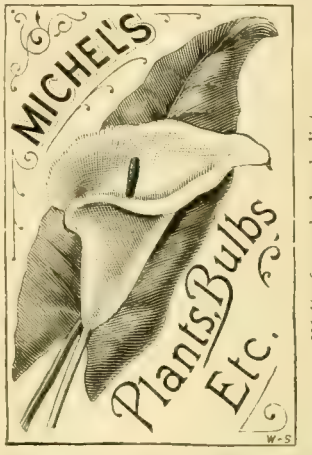
Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30 00
" " Rooted Cuttings	1 25	10.00
General Collection, stock plants	3 00	25 00
" " Rooted Cuttings	1 00	8 00
H. P. Roses, 2 years old, dormant	10 00	
Fine stock, 3-inch, Forcing Roses	8.00	75 00

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1 00	8 00
Feverfew (Little Gem), extra strong	2 00	15 00
Salvia splendens, extra strong	1.50	12 00
Moon Vine	2.00	
Ageratum, blue and white	1.25	10.00
Achyranthes Emersonii, etc.	1 00	
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WOOD BROTHERS,
FISHKILL, N. Y
Mention American Florist.



Write for wholesale list.

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SPECIALTIES FOR FLORISTS.

	Per 100	Per 1000
Petunias, double fringed extra var.	$4 00	$35.00
Verbenas, select sorts	2.50	20.00
Geraniums, the cream of singles and doubles	3 00	30 00
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Roses, Teas and Hybrids, 200,000 ready. See Wholesale Price List.		

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PAPER BAGS AND ENVELOPES
Special attention given to
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FICUS ELASTICA.

VERY FINE FOLIAGE.
14 to 16 in. high, from pot, $4 25 per doz.
18 to 20 in. high, from pot, $6.00 per doz.
24 to 26 in. high, from pot, $9.00 per doz.
Larger sizes from $1.00 to $8.00 each.

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CUT FRONDS SPECIALLY CHARGED WITH MOISTURE.

Will stand several days' travelling without injury. Sizes from 6 inches to 24 inches. Prices according to size.

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PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

TO FLORISTS, JOBBERS AND MARKET GARDENERS.

UNITED STATES NURSERIES.

Early in the spring of 1891, we were fortunate in placing large contracts with responsible growers for quantities of all kinds of Vegetable and Flower Seeds, which places us in a position to quote advantageous prices to the trade in general. Florists, Jobbers and Market Gardeners would do well to send us their list of wants in this line especially, for prices, before our large stock becomes depleted.

Our stock of EXTRA EARLY PEAS is the most select and best that can be had in the country; superior to most stocks sent out under fancy names and seal; and all other leading kinds; such as: **Champion of England,** the favorite marrow. **Advancer,** half dwarf, second early; best market pea. **Little Gem and American Wonder,** best dwarf peas in cultivation. **Pride of the Market,** large handsome pods. **Telephone,** best late pea grown.

Our large stock includes also selected stocks of the following, which can be relied upon for absolute pureness and high germination. **BEANS, Extra Early Red Valentine,** the snippers' favorite. **Mohawks,** the earliest green flat pea. **Long Yellow Six Weeks, Improved Golden Wax,** standard sort, rust proof. **Wardwell's Kidney Wax, Flageolet Wax,** largest podded wax varieties, much grown by southern shippers. **Golden Eye Wax,** stands all kinds of seasons and is most salable.

CABBAGE. All Long Island grown, from originators' stocks. **Jersey Wakefield, Early Summer, Succession, Late Flat Dutch,** the four best kinds in existence, and no others should be sown where a succession is wanted.

CUCUMBER. White Spine, the best kind for general use. **Extra Early Green Prolific, Boston Pickling,** most useful and profitable p ckling sorts.

LETTUCE, Curled Simpson, best curled early variety. **Boston Market,** excellent for forcing. **New York,** the only kind to cultivate outside.

ONIONS. Although one of the scarce articles this year, we are well stocked and can quote prices on the following kinds, guaranteeing high germination. All localities have their favorite kinds. We simply mention the leading well-known varieties: **Red Globe, Yellow Globe, Danvers, Red Weathersfield, White Globe, White Portugal, Spanish King, Extra Early Red, Southport's Yellow Globe.**

RADISH, Geckert's Chartier, most profitable summer radish. **Early Round Dark Red,** earliest and best turnip variety. **French Breakfast,** very popular, oblong, white tip. **Early Scarlet Turnip,** French seed, choice stock. **White Tipped Scarlet Turnip,** market gardeners' favorite. **Yellow Summer Turnip,** useful summer kind.

SALSIFY. Mammoth Sandwich Island, much improved stock.

SPINACH, Large Thick Leaved, the best kind to plant.

SQUASH. The following kinds are too well known to require description, but it is safe to say the best and most useful in cultivation. **Boston Marrow, Summer Crookneck, White Bush Scalloped, Yellow Bush Scalloped.**

TOMATO, Acme, a favorite with shippers. **Mikado,** large, irregular in shape, but very solid. **Favorite,** good standard sort. **Early Ruby,** earliest of the large; good kind. **Table Queen,** solid and large. **Perfection,** excellent shipping sort.

TURNIP, Extra Early Milan, the earliest variety in cultivation. **Red Strap Leaf,** standard sort. **Improved American Top,** the best.

ALL FLORISTS' SEEDS AND REQUISITES.

PITCHER & MANDA,

Nurserymen, Seedsmen and Florists,

SHORT HILLS, NEW JERSEY.

Mention American Florist.

WE TELL THE **TRUTH** about Seeds. We will send you Free our Seed Annual for 1892, which tells THE WHOLE **TRUTH.** We illustrate and give prices in this Catalogue, which is handsomer than ever. It tells NOTHING BUT THE **TRUTH.**



Write for it to-day. (P. O. Box 1086)

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Camphor and Magolia Seeds.

I have limited quantity of the above seeds, crop 1891, on hand yet.

CAMPHOR SEEDS. . . per lb. by mail, $2.00
MAGNOLIA GRANDIFLORA " " 1 00

Address **R. MAITRE,** SEEDSMAN,
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EXTRA PANSY SEED.
Mammoth Sunbeam Strain.

A grand collection of giant flowering varieties; flowers measure 2½ to 3 inches in diameter, of perfect form and finest colors. Be sure to sow of it. Liberal trade pkt. 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.

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Good Seeds, In Good Ground, Yield Good Crops

WE supply the Seeds,
YOU gather the Crops.

IT WILL SOON BE SEED TIME; we have GOOD SEEDS, ready for planting,—and we know that at harvest you will report that they have yielded good crops. This WE GUARANTEE, unless failure should result from some natural causes beyond human control. You can rely absolutely that no failure will result from any fault of the seed if you plant ours, for

Burpee's Seeds Grow. Write to-day for BURPEE'S FARM ANNUAL for 1892; it is a very complete book of 160 pages, with numerous engravings from photographs, and colored plates painted from nature; it describes all the best seeds, including Rare Novelties of surpassing merit which cannot be had elsewhere.

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1892.



1892.

For Over Thirty Years

we have always had very pleasant dealings together, the public and myself, and I again have the pleasure of presenting to them my Annual Vegetable and Flower Seed Catalogue. It contains the usual immense variety of seed, with such new kinds added as have proved to be real acquisitions. Raising many of these varieties myself, on my four seed farms, and testing others, I am able to warrant their freshness and purity, under such reasonable conditions as are contained in my Catalogue. Having been their original introducer, I am headquarters for choice Cory Corn, Miller Melon, Eclipse Beet, Hubbard Squash, Deep Head, All Seasons and Warren Cabbage, Etc., Etc. Catalogue **FREE** to all.

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SPRING BULBS in full assortment.
FLOWER SEEDS. Fresh, pure and reliable.

IMPORTATIONS OF 1891 CROP COMPLETE NOW.

BARNARD'S FLORIST MIXTURE OF PANSIES has well stood the test and wins approval wherever it's tried. Trade pkt. 25c.; ⅛ oz. $1.00; oz. $7.00.

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FLORISTS SEEDS.

The new crop of many varieties is now in store.

All Spring Bulbs Ready.

J. C. VAUGHAN, BOX 688 **CHICAGO.**

SPRING BULBS.



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2,000,000 EVERGREEN CUT FERNS NOW READY.

Special attention paid to supplying the wholesale trade.

Single thousand, $1.25; in lots of five thousand and upwards, C. O. D., $1.00 per thousand.

per barrel; 6 barrels, $5.00. 20 barrels, $15.00.

SPHAGNUM MOSS. Long, clean fibre, hand sorted, DRY or GREEN, $1.00
BOUQUET EVERGREENS, $2.00 per barrel.

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SPECIAL OFFER

Lily OF THE Valley

Price, 3 year old, Hamburg pips, $9.00 per 1000; $1.25 per 100.

In Case lots (2,500 to 3,000 each), $8.00 per 1000.

SPECIAL PRICE ON LARGE LOTS.

TERMS CASH.

Address **J. A. DE VEER,**
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LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
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The following standard works will be sent post free on receipt of price:

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Seed and Bulb Growers, Importers and Dealers,
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Growers of CHINESE SACRED LILY,

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Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

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A grand selection of the largest flowered and finest colored varieties that can be procured. Contains the cream of the latest novelties; many new and fancy colors. Excellent for blooming in pots. Extra choice. Trade pkt. 20c.; 3 pkts. 50c.; 7 pkts. $1.00.

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EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER.
QUEDLINBURG, GERMANY.

Suburban Flower Stores and Display Rooms for the Country Florists' Use.

MR. EDITOR:—The query is ours and possibly of others of your readers, what kind, size and shape of building, what manner of arrangement of the interior of same will give at once a structure substantial and artistic and furnishing a convenient office room for the needs of the average suburban florist, and what will give, as well, a show room for his flowers and requisites pertaining to the business and suitable counter space for his cut flower work and room for waiting customers, also provide for a cold storage room and facilities for show cases, etc.

That there are those in the business who have thought out to completion such buildings suitable for above suggested purposes and are now using same is undoubtedly true. That there are others who are in need of some such structure is also apparently true. May not the latter, your readers and patrons, invite through your columns from the former working descriptions of these buildings, referred to with the presentation of cuts, possibly, illustrating their ideas and plans with any suggestions of additions or changes that might be pertinent to the inquiry?

The present writer can see the desirability of such a building, in its interior possessing a form not only a stable and business-like one in its construction, but artistic in its architecture, something in keeping with each locality and suggestive of the business carried on within. Whether such a store is to be built among other stores on some main street or to be joined to ranges of greenhouses more in the suburbs is a factor for consideration. The show windows and main entrance would naturally call for close attention in design for effect and use. The interior arrangement of sales and work counters, show cases and refrigerator, with chances for desks and a convenient office or waiting room are seemingly matters of practical importance for quick, easy and economical work.

Contrivances for keeping moisture and smoke passing from the greenhouses to such stores when they are connected together is also a thought of some moment.

That some of our florists who already have supplied themselves with these structures kindly favor your readers with such data, descriptions, plans and suggestions as will enable others to go and do likewise, better when possible, is the suggestion and wish of the writer.

Danvers, Mass. E. W.

Adiantum Cuneatum.

Well established young plants, from flats, $1.00 per 100; $10.00 per 1000.

Same from 2½-inch pots, $3.00 per 100; $30.00 per 1000.

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IMPROVED GIANT.

This magnificent strain of Mammoth Verbena has given perfect satisfaction to my many customers in the florists' trade, and is justly claimed to be the finest representation. The florets measure over an inch in diameter, borne in immense umbels. Very free flowering and of the finest colors. Every florist should be sure to sow of it. Trade pkt 25 cts.; 3 pkts. 50 cts.; 10 pkts. $1.00.

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Have your spring trade list printed on this page. We will circulate it to 5,000 buyers, and the whole cost will be less than the postage would be on the same number mailed by you.

PYRETHRUM ULIGINOSUM (GIANT WHITE DAISY)



This is a good thing for cutting. Will flower first season from seed if sown early.

Fresh Seed Crop of 1891 now ready.

Trade pkts., 50c. and $1.00.

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Seed Growers,

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Trade list on application, but *for those in the trade only.*

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

—NO RUST OR MILDEW.—

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

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Stock plants of the following varieties, from 6 to 8-inch pots, $2.00 per dozen:

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Also sixteen plants for One Dollar, older varieties, all prize winners.

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COLEUS.

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Double White Primulas.

Fine plants from 3-inch pots, in bud and bloom, at $8.00 per hundred.

BOUVARDIA, strong roots for propagating, single and double white, pink and scarlet, at $1.00 per hundred.

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I have my **COLEUS** in such shape now, that I believe that I can furnish **ROOTED CUTTINGS** in almost any quantity wanted. My stock of

VERSCHAFFELTII, GOLDEN BEDDER and GOLDEN VERSCHAFFELTII,

is very large and in good condition. It will pay you to inquire about my prices and varieties. I am confident that they will please you.

S. B. FIELD, Roselle, N. J.

ROOTED CUTTINGS.

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ALTERNANTHERA P. Major and Aurea Nana, 50 cts. per 100.

AGERATUM White Cap and Cope's Pet, 50 cts. per 100, by mail prepaid.

OTHER STOCK LATER.

Don't order more PETUNIAS and VERBENAS until quoted here.

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Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:

25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other

PLANTS FOR FORCING AND DECORATING.

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PALMS. PALMS. PALMS.

That will sell. That you want. That everyone needs.

LATANIA BORBONICA.

Two-and-a-half-inch pots, well grown, need a shift at once, $5.00 per hundred. Sample ten by mail for $1.00.

Three-inch pots, showing character leaves, will make fine Spring stock, $10.00 per hundred.

Four-inch pots, with nice leaves, well drawn up, need shifting at once, $20.00 per hundred.

Five-inch, well grown plants, eighteen inches high, with 5 to 7 good leaves. If pushed on, will make grand plants for Spring sales, $90.00 per hundred.

SEAFORTHIA ELEGANS.

Three inch pots, well grown plants, $20.00 per hundred.
Five-inch pots, very fine, $50 00 per hundred.

PANDANUS UTILIS.

Three-inch pots, good plants, ready to shift, $15.00 per hundred.

All this stock has been grown for Florists' use, and have very small pots for the size of the plants, so that Express charges will be quite light.

Full stock of the leading kinds of CHRYSANTHEMUMS, two-and-a-half-inch pots, including L. Canning, Gold, Louis Boehmer, Robt. Bottomly, and others, $5.00 per hundred.

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CYCAS REVOLUTA STEMS,



To be delivered from February to April. By weight, roots and fronds trimmed off. We handle the

TRUE LONG-LEAVED SORT

only and can furnish in sizes of from 4 inches to 4—6 ft. We imported over 30,000 lbs past season, and can refer to the best firms in the United States as to satisfactory results. Full information as to freight rates, mode of treatment, etc., given on application. Our terms are consistent with **BONA FIDE** stock.

LIL. AURATUM, RUBRUM, LONGIFL., ALBUM, ETC.

Send for our Trade List and full descriptive, finely illustrated, retail catalogue. All desired information, estimates, etc., given cheerfully.

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ORCHIDS.

The finest stock in the **WORLD.** Nearly five acres devoted to their culture.

SANDER'S,
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Thirty minutes from London.

100 ESTABLISHED ORCHIDS, $25
1000 CANE STAKES, $1.00.

Price list free. Samples by mail for 50 cts.

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Govanstown, Md.

If your spring trade list will go on this page we will circulate it to 5,000 buyers for $42. If it will go on half he page it will cost only $21.



PALMS and DECORATIVE PLANTS

ready for use. CUT ORCHIDS.

ORCHID PLANTS READY TO BLOOM.

SIEBRECHT & WADLEY, 409 Fifth Ave., New York.

Plants for Season.

ALL THE FOLLOWING ARE DESIRABLE FOR HOLIDAY TIMES.

FOLIAGE PLANTS.	Doz.
Araucaria excelsa, 6-inch pots, perfect specimens	$20.00
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Areca lutescens, 2 ft	10.00
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A very fine collection of the large flowering, fringed varieties of the best colors and finest markings. Pot grown and hand fertilized. Choice. Specially selected for florists' spring sales. Trade pkt 30 cts; 2 pkts. 50 cts. JOHN F. RUPP, Shiremanstown, Pa.

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VOLUME 6

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AMERICAN FLORIST

Bound in Half Leather.

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Palms and Dracaenas.

The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10 00 each. Cycas revoluta, 50c to $5.00 and $15 00 each. Cycas leaves 25c. to 50c. each.

DRACÆNA INDIVISA VEITCHII, DRACO and AUSTRALIS, 2½-inch pots, $4 00 per 100; 3-inch pots strong, 15 to 18 inches, $8.00; 4-in. pots, strong, $12 00. For other varieties of Dracænas and Palms, etc., etc., see descriptive catalogue and new wholesale list.

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Treatment of Poisoning from Primula Obconica.

As to poisoning with Primula Obconica I would say that the application to the affected part of a strong lather of common yellow soap has relieved all cases I have seen and those have not been few. Take a bar of common domestic soap and with a shaving brush make a strong heavy lather and with the brush paint it on to the part affected. Put coat on coat until a coating at least 1-16 of an inch thick has dried on. This keeps out the air and seems to draw out or neutralize the acrid fluid of the primula that causes the trouble.

The poison is found in a minute gland or bulb at the (outer) ends of the hairs or "spines" that grow on this variety of primula. The gland contains an acrid fluid that is carried into the blood by the piercing of the skin by these hairs or spines in exactly the same way the poison of the honey bee is carried by the bee sting. The disease caused by the primula is a species of erysipelas. If the soap fails then get from a homœopathic physician or pharmacy a small vial of their preparation of Rhus Toxicodendron and take it as they will direct. This will neutralize the poison in the system if it has penetrated beyond the integument.

A GROWER OF PRIMULAS.

Special Attention.

First Importation of the Season of 100,000 pounds of

CYCAS REVOLUTA,

in sizes from 6 inches to 6 feet, guaranteed to be the only TRUE LONG-LEAVED VARIETY, which for beauty in foliage is far excellent to any of its kind; fast becoming a most favored Palm, highly recommended by most leading nurserymen and florists.

By weight, fronds and roots cut off.

Price, not less than per 100 lbs. $10 00. Per 1000 lbs. $85.00, f. o. b.

Extra inducements on larger lots.

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Send orders for **RHAPIS FLABELLIFORMIS.** Delivered from Feb. 1st.

Per 100 shoots, from $25.00 to $40.00.

Send for new Catalogue.

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WATER LILIES.

Choice Aquatics. Hardy Ornamental and Sub-Tropical plants, and

CHRYSANTHEMUMS.

Price list on application.

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TUBEROUS BEGONIAS.

LARGEST STOCK IN AMERICA.
BETTER THAN IMPORTED GOODS.

SINGLE.	MIXED, SELECT. per 100,	$7.50
	" " (small tubers). "	4.50
	Choicest Seedlings, equal to named flowers, in 12 distinct colors and shades per doz.	2.50
DOUBLE.	MIXED. per 100,	10.00
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	In distinct colors, White, Rose, Pink, Scarlet, Crimson and Salmon. per doz.	2.50
	Choicest select Seedlings, in 12 distinct colors and shades "	4 00

SEED.

Our seed this season is extra fine; saved from our collection of over 200 named varieties, all carefully hybridized. We guarantee it not to be excelled by any Foreign house. January is the best month for Sowing.

SINGLE OR DOUBLE, mixed trade pkts. $1.00
SINGLE TO COLOR, White, Yellow, Rose, Pink, Salmon, Scarlet, Buff, Salmon Rose and Fancy. (Nine colors, $4.00), per pkt. 50 cts.
DOUBLE COLLECTION, 10 named varieties. $5.00
SINGLE VARIETIES by weight. 5 grains, $2 00, 1-32 oz. $5.00
DOUBLE " " " 5 grains, $3.00; 1-32 oz. $7.50

New Descriptive Catalogue ready about January 1st.

F. J. MEECH & SON, CHARLEVOIX, MICH.

HARDY PLANTS BY THE MILLION.

NO DOUBT ABOUT IT. ACRES AND ACRES OF THEM.

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[*P. S. by J. H. McF.*—The "we" will go better after a bit. Just notice that I'm right "in it" yet, at the same old stand, and the others are helping me to do better for all of us, and you!]

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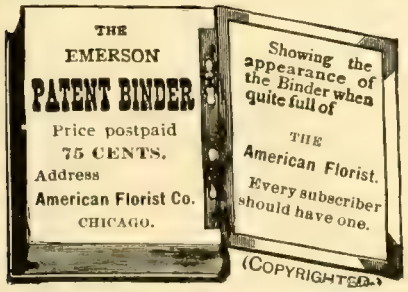
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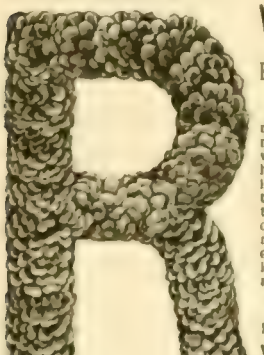
Putting Plants to Sleep.

I find the following in a magazine of eight years ago:

The eminent physiologist, M. Claude Berrard, has lately made a number of experiments which proves that etherization acts on plants as well as on animals. All vital acts whether in the animal or in the plant, may be anæsthetized. Thus, in plants, germination is arrested by the use of ether. The author proves this in the case of cress introduced into a tub with ether. The germination was stopped; on removing the ether, however, it began again. It was not a case of death but only anæsthesia. The same occurred in other plants, and even with ferments, whether of plants or animals. Thus, beer yeast in contact with ether for twenty-four hours, is thrown into sleep, from which, however, it awakens when the etherization ceases. M. Bert, in his experiments on the influence of oxygen on living things, killed the yeast. M. Bert observes that, as regards a sensitive object, we should distinguish its provocable movements and its spontaneous movements. Under the influence of etherization it is only the former that are arrested, the others still going on.

Can we not press ether as well as electricity into our service? I do not see why we should not gain practical results from experiments in anæsthetics as well as electricity. For instance, could not plants be exhibited in their successive stages of growth and flowering, whilst under "the influence"? Think how convenient it would be, if you had something choice and rare coming in too soon for exhibition, to be able to send it into a trance until it was needed. Or an orchid that declined to rest, what gentle persuasion we could use. Again, we often hear of the difficulty of importing choice plants, could we not devise some practical plan for keeping them under "the influence" while on their journey and thus receive them in the same condition as they started. They might then be sent in any stage of growth or flowering. Unless the after-effects are injurious to the plants, experiments in this line will, I think, eventually produce some results of practical use to the florist. Has anybody seen any account of experiments made with this object in view? If so, I would like to know of them. Can not some of our scientific and chemical florists give their opinion on this subject? SIB.

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Light but strong

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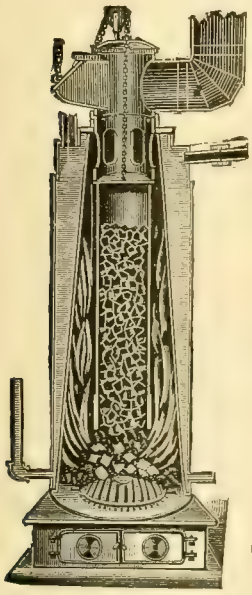
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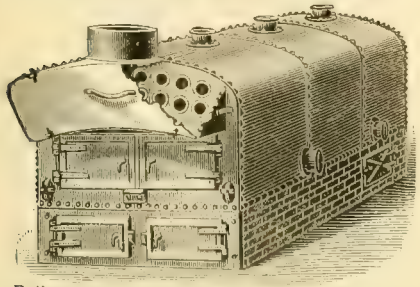
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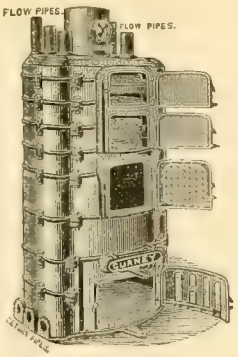


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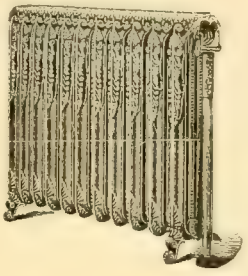


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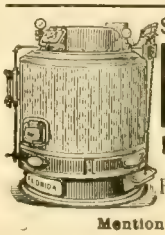
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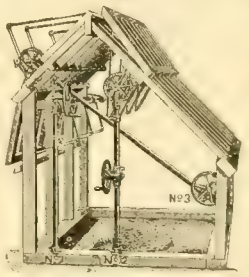
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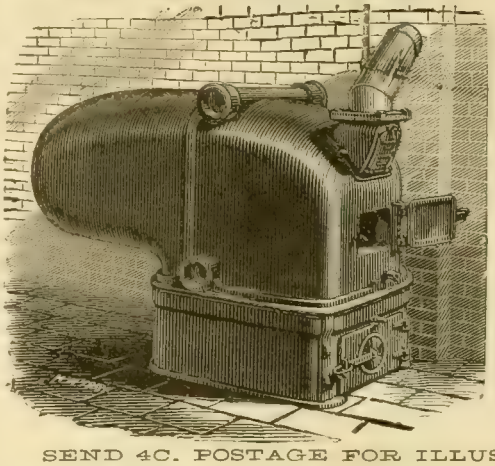
WE HAVE received from Messrs John Laing & Sons, London, England, two large photographs of their field of tuberous begonias in bloom. The field is of very considerable extent and the plants a mass of bloom.

THE Michigan State Commission of the World's Fair have appointed the following committee on Floriculture for Michigan: C. L. Whitney, Muskegon, Chairman; S. Taplin, Detroit; R. H. Mann, Lansing; John Irvine, Bay City; H. C. Thornton, Ionia.

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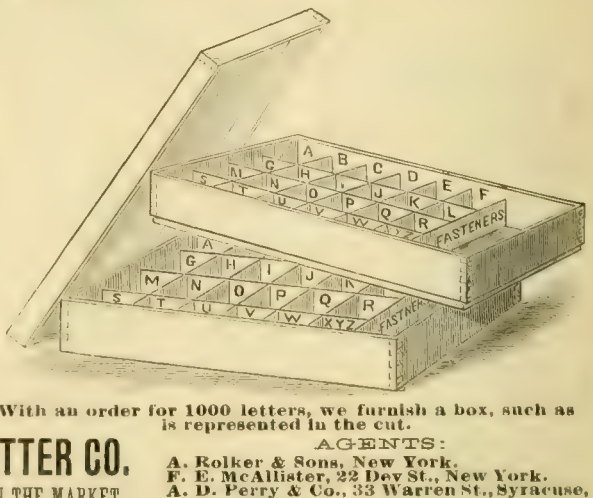
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JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

AMERICAN CARNATION SOCIETY.

EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., president; C. J. Pennock, Kennett Square, Pa., secretary. First annual meeting and exhibition at Buffalo, N. Y., February 16, 1892.

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Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BEATTY, Sec'y, Oil City, Pa.

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Insures greenhouses against damage by hail. JOHN G. ESLER, Secretary, Saddle River, N. J.

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AGAIN we have been obliged to lay over for another week quite a number of articles that were already in type. But all will appear shortly.

THAT new directory is coming. It has been subject to numerous irritating delays, but may now be looked for most any day.

The World's Fair.

The Bureau of Floriculture hopes to make such arrangements as will give to chrysanthemums, cyclamen, Chinese and other winter flowering primulas, cinerarias, calceolarias, amaryllis, Dutch bulbs, narcissus and other winter and spring flowering plants, a magnificent representation during their season of beauty from Nov. 1, 1892, to April 1, 1893.

The proposed plan is to have displays of the plants and bulbs mentioned above in such quantities as to form a great attraction during their best season of flowering.

In the case of cyclamen, cinerarias, primulas, calceolarias and mignonette, all the seed from different firms contributing will be sown on the same day; the same treatment will be given to all; the same soil will be used; and at the final potting an equal number of plants from each contributor will be selected and grown together. When in flower it is expected that awards will be made in the order of merit, and all contributors will have the privilege of attached their business cards and addresses, subject to the rules of the department governing the same. A record of all contributions will be kept and credited to the party supplying the seeds, etc.; all will be treated in the most confidential manner, and such methods will be pursued as will insure perfect justice to all.

All seed must be supplied free of cost to the department; thoroughly capable men will have charge of the growing of the various plants so that the highest state of cultivation may be developed, and the growing and cultivation of the plants will be carried on without expense to the contributor. Seeds in sufficient number should be sent to make it certain that not less that 100 plants of each will be in good condition at the time of final potting.

Cyclamen seed must be sent immediately upon receipt of this communication, as it is now late in the season; the sowing of cyclamen will be made not later than Feb. 4, 1892. They may be represented in 10 kinds.

Chinese primulas may be shown in 12 kinds, and must be sown not later than March 1; cinerarias and calceolarias in mixture, 200 plants, to be sown by March 1; mignonette will also be sown by March 1.

It is hoped that this offer will be thoroughly appreciated by those to whom we make it. JOHN THORPE,

Chief, Bureau of Floriculture.

An International Chrysanthemum Show.

A fact that has been bothering Chief Thorpe of the Floricultural Department of the World's Fair for some time is that the Fair will close too early in 1893 to permit the chrysanthemum to show itself in all its gorgeous variety, and with the present popularity of this flower all will admit that the Department of Floriculture would be far from complete without such a display. But what we will not have time for the fall of 1893 we will have time for the fall of 1892 thought Mr. Thorpe. So he consulted the Director General, who when the state of affairs was explained thought that suitable arrangements could be made. The horticultural building will be completed by that time and in fact many plants and exhibits installed, but there will be acres of space to use for such an exhibition as contemplated.

In order to get an expression of opinion on the plan from as many in the trade as possible, and to have formulated some general plan to present to the Exposition managers, Mr. Thorpe called together as many as he could reach on short notice last Monday afternoon, there being present in the city at the time Mr. M. A. Hunt, of Terre Haute, Ind., Treasurer of the S. A. F., and Messrs. W. G. Bertermann and C. J. Truemper, of Indianapolis. In addition to Mr. Thorpe and the gentlemen named there were present at the meeting Messrs. J. T. Anthony, J. A. Pettigrew, J. C. Vaughan, A. McAdams, George Gardner, F. F. Benthey, F. Kennicott, M. F. Gallagher, P. J. Hauswirth, Edgar Sanders, H. H. Hindshaw, W. C. Egan and G. L. Grant.

After Mr. Thorpe had stated the objects of the meeting Mr. Hunt was elected chairman and Mr. Grant secretary and a general discussion of the project ensued which was participated in by most of those present. A committee was finally appointed to formulate a plan and submit same to the full meeting for action. The committee submitted the following, which after slight discussion was adopted by a unanimous vote:

WHEREAS, the World's Columbian Exposition closes October 30, 1893, too early for the annual chrysanthemum shows of that year, and

WHEREAS, these annual shows have become the greatest and most popular medium of expression of public interest in horticulture,

THEREFORE, we recommend that the Department of Horticulture arrange for an International Chrysanthemum show in the Horticultural Building, to be held under the auspices of the American Chrysanthemum Society, opening November 3, 1892, and continuing 15 days.

Suitable medals and premiums should be provided, which in the judgment of your committee could be fairly done at an expense not to exceed $12,000.

It is believed that the attractions of an advance view of the World's Fair Buildings in addition to such a superb exhibition as this will certainly be will draw immense crowds and that the exhibition will be very profitable to the Exposition Company.

The exhibition will be thoroughly International in character and that foreign exhibitors may be properly represented the Department will undertake to grow into exhibition condition plants sent from

over the water early in the spring. In this way all the large chrysanthemum growers of the world can be represented. It is expected that this exhibition will bring together a display of chrysanthemums in such variety and quantity as the world has never seen.

Thoroughly competent committees will pass upon all seedlings displayed no matter upon which day received and it is thought that during the 15 days of the exhibition opportunity will be given for nearly all the seedlings to be shown at their best. Medals obtained in such a contest will mean a great deal and will at once stamp the winners as possessed of great merit.

Certainly no man is more competent than Mr. Thorpe to direct such an exhibition and none is better able to make it thoroughly international in character. May the minor details all be satisfactorily arranged and preparations be at once begun for an exhibition which if carried out will be a revelation to the world of the wonderful variety in color and form of the Queen of Autumn.

The White House Greenhouses.

When in Washington the other day I visited these gardens with a good deal of pleasure. The main conservatory was pack-full of a large assortment of flowering and foliage decorative plants and everything had a general air of good health, thrift and cleanliness. The lesser greenhouses are used as feeders for the large conservatory, or for the special cultivation of roses, carnations and other flowers. Most all seasonable flowers, as Chinese primroses, cinerarias, begonias, bouvardias, heliotrope and the like, are grown in quantity, and cold frames are filled with pansies, bulbous and other stock. Indeed in one frame I noticed a fine batch of Christmas roses (Helleborus), which must have contributed considerable assistance this winter in the way of cut flowers.

The following are some of the plants I particularly noted:

THE ORCHIDS looked fine. There were some splendid specimens of Dendrobium nobile in bloom, also nice plants of D. Dearii and D. Wardianum. There were many cattleyas, a few lælias, some cypripediums and phalænopsis, handsome specimens of Galeandra Devoniana and Bletia Shepherdii in fine bloom, also Cœlogyne cristata. The electric lights in the conservatory were said to have an injurious effect upon the suspended dendrobiums.

BIGNONIA VENUSTA.—A Brazilian vine with crimson flowers; free growing and a very generous winter bloomer. In fact it is one of the most desirable of all greenhouse climbers.

PASSIFLORA RACEMOSA.—Another handsome free blooming vine from Brazil. It has red flowers in drooping racemes. One of the oldest and best of the greenhouse passion flowers.

PLUMBAGO CAPENSIS.—Both the blue and white flowered forms were trained against a wall in a small greenhouse, and in bloom. Pretty at all times, but I have not found their cut blossoms of good lasting nature. For outdoor summer gardening both forms are capital plants and bloom abundantly. Indeed it is one of the plants that is not made as much use of as it should be. Speaking of plumbagos I might here say that a year or two ago I noticed President Dean had a lot of the East Indian P. rosea, but he tells me he couldn't do anything with it commercially. This is a pity, for both it and the Ceylonese white one are capital winter blooming plants for conservatory decoration.

POTHOS (Scindapsus) argyræa and one of the large leaved maregravias were growing up against a damp wall in a warm house. Both are shade, damp and heat loving vines whose stems and leaves cling as close to the surface against which they grow as "the bark to a tree." Their horticultural value consists in their evergreen nature and close clinging habit and not to any flowering propensity or leaf beauty.

WHITE POINSETTIAS.—It is not often we meet with this variety nowadays, for it doesn't seem to hold favor. At the White House, however, lots of it are grown. Except in color—creamy white—it is similar to the scarlet poinsettia, and where variety is wanted no doubt it is a desirable addition to our winter flowers.

STRELITZIA REGINÆ was in bloom. What a fine old plant this is for a large greenhouse. It is ornamental as a foliage plant and very striking when in bloom. While it can be had in bloom most any time its regular blooming season is in the winter time. About four of its brilliant orange or blue-purple flowers occur on each scape. It is not a plant that would pay the cut flower florist, but all general plant merchants should carry it.

ECHEVERIAS (the proper botanical name is Cotyledon, but as echeveria—itself a botanical name—has become generally accepted as the English name for this genus, we had better stick to it in like manner as we do to geranium, fuchsia and verbena).—Several of them, as retusa, metallica and the like, make nice winter blooming plants and as such are a great deal used here and elsewhere in Washington. Indeed I saw a made up mantel piece in a cool house and the flowers it contained were scarlet poinsettia, white camellias, Roman hyacinths and echeveria set in smilax.

STROBILANTHUS (GOLDFUSSIA) ISOPHYLLUS.—This is a very common old fashioned plant and one that is really useful for adding variety to the greenhouse in winter. It is a little, bushy, soft habited plant, easy to grow and neat and full of funnel shaped, lavender-blue blossoms. For cut flowers it has no value, as its flowers have not character enough or taking color; besides, they drop too quick.

ERANTHEMUM PULCHELLUM is another old favorite winter blooming plant with deep blue flowers. Stocky, easy to grow, abundant and long blooming, but only of use for greenhouse decoration.

LIBONIA PENRHOSIENSIS occurred in quantity, but I omitted to notice L. floribunda and Jacobinia (Sericographis) Ghiesbreghtiana, both in the same line and exceedingly desirable for winter decoration. As regards the cultivation of these plants let me particularly recommend that they be kept well headed back during their earlier life, planted out in summer and lifted and potted early in fall.

DWARF CANNAS.—I noticed a few in bloom in one of the smaller houses, but nowhere caught a glimpse of the golden frilled Madame Crozy or the vivid Star of '91.

THE LACE-LEAF PLANT of Madagascar, botanically known as Aponogeton (Ouvirandra) fenestralis, is a little water plant and found a home in a small tank in a warm greenhouse. This plant is a curiosity. It has a tuft of oblong leaves about 9 inches long and 1½ inches wide and which float just under the surface of the water. Like lattice work the leaves are a complete net work of holes, but the holes are squares not diamond shaped, in fact they are simply a skeleton of nerves. In Madagascar it grows in considerable quantity by the margins of running streams, in shallow water, and as it has tuberculate, edible, farinaceous roots it is gathered by the natives as an article of food. They call it ouvirandrana, which means water yam. In our greenhouses, however, it is not only a curious, but somewhat rare plant and a rather difficult one to grow well. Its little white flowers are pretty enough in their way, but the skeleton leaves are the plant's only attraction in a horticultural way.

WM. FALCONER.

Cyclamens.

Some time since we received from Mr. John Rose, gardener for Mr. F. T. McFadden, Cincinnati, a magnificent specimen plant of Cyclamen persicum giganteum, which we noted in the subsequent issue of the FLORIST. Knowing that the trade would be much interested in the subject we at once wrote to Mr. Rose asking him to favor the readers of the FLORIST with a description of his method of culture to produce such splendid results and also requesting him to have taken for us photographs of single plants from the same lot and of a group also. Mr. Rose very kindly responded to all of our requests and we present in this issue reproductions of the photographs and give Mr. Rose's article below.

The small plant illustrated was in a 5-inch pot and was from seed sown March 15 last. This shows what can be done with the cyclamen when properly handled.

The cyclamen, as a rule, has not been well done in this country except by a few growers in Boston and New York, yet it has been pushing itself into prominence for the last two or three winters and I believe it has come to stay, as there is not a better winter flowering plant in cultivation to-day. The cyclamen will bloom and thrive in the window of any moderately warm house for 6 months, which is more than we can claim for any other winter flowering plant.

Cyclamens are of easy culture and should be grown and handled by all growers of winter blooming plants. Seed should be sown in a mixture of one part light loam, one part leaf mould and one part sand, in shallow boxes and kept well watered until the seed germinates. There is no use sowing the seed before January, as it only takes from nine to twelve months to have plants ready for the market. Most growers sow their seed from August to November and keep them lying around their houses all winter getting hard and spoiled.

One of the greatest points in the culture of cyclamens is to keep the small plants growing right along from the time the seed germinates and in order to do this the seedlings, as soon as large enough to handle, should be pricked out of the seed pans into others, giving them a nice light loam with enough sand in it to keep it open. Then as soon as they form a nice little bulb with about two leaves pot into thumbs, always giving a nice light compost of loam and sand. As soon as they are rooted through in the thumbs shift them into 3-inch pots and by that time it will be about the middle of May, when they should be put out in frames shaded from the sun and aired freely night and day. They should be shifted along as necessary, never allowing them to get pot bound until you get them in as large a pot as you want to winter them in. I



SPECIMEN CYCLAMEN PERSICUM GIGANTEUM.

have grown plants from seed sown in March into 8-inch pots before September.

They should be left in the frames until the 1st of October, when they should be housed. Then begin to feed liberally with manure water and continue all winter.

The specimen sent you was one plant of 500 kept over from last year and seed sown March 2, 1890. They were partially dried off all summer and in July shaken out and repotted in large pots and grown out in frames until first of October. JOHN ROSE.

The Violet Disease.

I have read Mr. Ch. D. Wadsworth's statement corcerning the violet and its trouble. I would say, if a parasite or an insect is the cause of violets losing their leaves, is not that really a disease?

I saw a number of plants in the fall of last year, just after they were taken in the house (and as good a place for violets to grow as could be made for them) and the disease was then doing its worst. I saw the same plants again only last week and I should suppose they had been completely stripped. The crowns were however throwing up an entirely new crop of leaves and on some of the plants there were a few imperfect blossoms, but quite a number of buds or flowers were forming and would apparently give the grower some benefit later on, though they would be probably of inferior quality. I took home in the fall a few leaves in my pocket for a close inspection and to me there appeared to be a minute insect at work between the outer and inner cuticles of the leaf, but not having a microscope I was not able to satisfy myself upon that point.

Years ago I saw much the same influence at work among celery plants. I planted five rows, two of plants I had raised from seed myself, and three from plants given me by my neighbor. The disease attacked the three rows and utterly destroyed them, while the two rows remained free from all sign of any hurt notwithstanding they were growing beside the others. I never saw the disease before nor since unless this is the same thing in the violets.

As regards the culture of the violet. In the spring the young and fairly hardened runners should be taken, and I think put into 2-inch pots, separately, then thoroughly watered and set where they can have a cool bottom, and but a moderate heat at top. I set mine under the bench in carnation house, along the front three deep on a damp board, and am very careful they never get thoroughly dry or receive more water than will keep the soil moist. Those who can spare the ground should in early May plant in the open, about fifteen inches between the row, and a foot apart in it. Take away all runners as fast as they appear, but don't do as I fear some are apt to do, mistake the

outer crowns forming around the central one for runners and injure the plants and destroy the crop. Above all else be sure to keep them clean during their growth. In September remove them, with a ball of earth if possible, to your frame or house, giving again an abundance of water and all the air you possibly can until the cold sets in, in earnest, then keep them at from 45° to 50° and if soil is favorable there will be a satisfactory crop. Those I had to do with last year and served in this way are today an exceedingly fine lot of flower bearing plants. But no runners are allowed a place yet; they are carefully taken away as fast as they appear. A large crop of bloom has already been taken from them and so far as I now see there is no sign of a failure yet.

Where the plants are to be grown, the manure (good and rotten) should be applied in the fall, and ploughed well under, then ploughed again before planting in the spring (especially if land is heavy) and if it is possible to get a few loads of old broken brick and plaster from walls or ceiling to spread with manure, you would find it a profitable investment. Any kind of calcareous matter, lime or chalk, is good for violets, for in the old country where the perfumed sorts grow wild the most and best are found on the chalk ranges or hills around the fields in hedges or copse, or in the banks by the side of the roads.

Light porous soil should never be used and if nothing but sandy soil can be obtained then just the top spit or sod should be used. Break it well up but not very fine, plant firmly and give water on bright days freely to the roots, sparingly always to the tops.

I think with Mr. Wadsworth improper treatment is most often the cause of trouble in plant culture, but if that is so with his violets this year, does he not know it? I think he has something more to say on the subject.

If violets are grown in a house I would prefer solid benches.

Cohoes, N. Y. ALFRED HUMPHREYS.

I note recently many comments in your paper on the violet disease. I think if parties will take healthy cuttings, spring or fall makes no difference, grow on *carefully* during summer, so that they may not suffer by drought, plant in frames early (not later than Sept. 1), and *carefully* keeping sash with air on nights, with but a pinch of air when weather changes many degrees from temperature of the day, they will be free from the pest. I have found the trouble to spread most rapidly in weather with extreme and sudden changes in temperature such as occurs in early autumn weather. This seems to be conducive to the growth of fungus which attacks chrysanthemums as well as violets.

I notice that if violets can be safely carried to December in a healthy condition there is seldom trouble. S.

American Chrysanthemum Society.

REGISTRATION.

As Messrs. Pitcher & Manda were the first to register the name of "W. A. Manda" for a yellow hairy chrysanthemum, it takes precedence over one named "P. Barry" which is said to be one and the same variety. The name first mentioned was received and registered some time before the last named was received.

EDWIN LONSDALE, Sec'y A. C. S.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



American Carnation Society.

This society now has over 90 members. The first annual meeting will be held at Buffalo, N. Y., Feb. 16, and in connection with it there will be an exhibition of flowers of both new and old varieties.

The following is a partial program of the papers to be presented and discussed:

"Carnation Rust; a new and destructive disease," by Prof. Arthur, of Purdue University.

"Carnations as Grown in Europe," Mr. E. G. Hill, Richmond, Ind.

"The Retail Trade," Mr. Wm. Scott, Buffalo, N. Y.

"Do Varieties Run Out?" Mr. W. R. Shelmire, Avondale, Pa.

"Carnations in Southern California," Mr. C. J. Haettel, Redondo Beach, California.

"John Thorpe's Ideal Flower," Prof. L. H. Bailey, Cornell Experiment Station.

All persons interested are invited to attend the sessions of the meeting and participate in the discussions. Flowers for exhibition should be forwarded, prepaid, to Mr. Wm. Scott, 479 Main street, Buffalo, N. Y., to arrive the day preceding the meeting. No charge will be made for entries and no prizes awarded, but a committee will examine and report upon the display. In case of new varieties sent for exhibition it is requested that a description of the habit and the pedigree be given.

The meeting and exhibition will be held at the Tifft House, where arrangements have been made for the accommodation of those attending the meeting. All those expecting to be in attendance are requested to notify the Secretary of the society as soon as possible.

The officers of the society are: Edwin Lonsdale, Pres.; Wm. Swayne, Vice-Pres.; C. W. Ward, Treas.; C. J. Pennock, Sec'y. The address of the Secretary is Kennett Square, Pa. The annual dues are $2.

Every grower of carnations should have a lively interest in the welfare of this vigorous young organization, and support it by placing his name on the membership roll whether he can or cannot be present at the convention.

American Carnation Society.

REGISTRATION.

Messrs. E. G. Hill & Co., register the following: Edna Craig, soft bright pink, the flower of good form, on long stiff stems and with fine caylx; Sea Gull, very large white, on long stiff stems, petals broad and of great substance; Attraction, beautiful shade of red, between a pink and a scarlet; White Dove, pure white, fringed, long stems; Ben Hur, soft Wilder pink, large and long stemmed with extra good calyx; Mrs. Robert Hitt, a softer shade than Wave, probably the longest stem in the carnation family; Indiana, flower extra size, creamy white penciled and flaked with bright pink; Salmon Queen, soft salmon lightly dotted pink.

Edwin Lonsdale registers his Grace Battles, a delicate pink, early and free bloomer.

Mr. C. E. Brinton registers the following: Excelsior, white, on long stems, quite fragrant; Delaware, variegated white and scarlet; Diamond, white with pink tinge; Lady Martha, penciled scarlet and white, large size; Oddity, pink ground shaded scarlet. A. M. HERR.

Carnation Germania.

ED. AM. FLORIST: I notice in your valuable paper much space devoted to the carnation and am convinced this is as favorite a flower on your side of the ocean as on ours. It is therefore surprising to me that the splendid border Carnation "Germania" is not better known with you. Why is this? We had the good fortune to originate this gem some 5 or 6 years since and it is now in everybody's hands. In England it is a universal prize winner as the finest yellow self color. A large bold flower, citron yellow (lemon, as you say) on long stems, an abundant bloomer, each plant giving 8 or 9 strong layers, robust habit, good foliage; these are the characteristics of this splendid variety with which we were so well pleased when we found it among our seedlings that we baptised it "Germania". Now I would like to see this plant introduced into the states and you ought to take an interest in this matter. Although I know that in the States you pay more attention to the Perpetuals, this "Germania" is of such value to every florist that it should be largely grown. FR. BENARY.

Erfurt, Dec. 27, '91.

Carnation Novelties.

It has come to be an unquestioned fact that novelties are a necessity in the carnation family just as babies are a necessity in the human family; to take the place with new blood and new vigor of the older generation who are gradually dropping off and out year after year.

The originator becomes as it were both father and mother to this young generation of carnations. He has all the pains, anxieties and love of the mother with the pride of the father in the carnations he produces, and it is not surprising that he sees all of the good and none of the bad points in the results of his labors; in fact it would be almost unnatural if he did not. Every mother thinks her own baby "a thing of beauty and a joy forever." Every originator thinks the same of his carnations, perhaps not quite so elegantly but he thinks it nevertheless. We all honor this maternal instinct be it in the home of luxury, the cottage or in the greenhouse. Do we all agree as to the "thing of beauty and a joy forever?" I can recall some babies that would not hold out as a joy for 24 hours in a stretch let alone forever; we all can recall some carnations that are in about the same predicament.

It may go hard with all this paternal and maternal instinct to throw out the product of our brain and brawn, but there is the consolation that we are assisting in that great law of the universe, "the selection of the fittest," and when we do succeed in getting projeny that is a thing of beauty the brilliance of our reputation is not sullied by the weak and unprofitable varieties scattered around the country accusing us of their parentage.

These are a few thoughts that occurred to me while on a visit to that genial and enthusiastic carnation man, Mr. Edwin Lonsdale. He, more than any other man I ever met, has experimented in the production of new carnations. The results can be seen at his place in all colors, all sizes and all manner of variations. He



CYCLAMEN IN 5-INCH POT. TEN MONTHS FROM SEED.

does not hasten his products on the market, but hesitates and carefully watches all their bad points to see if there can be any possible fault found with them. It is not, is it about as good as some of the older ones, but is it *better*, and not only is it better, but is it a *great deal* better? If not he says in that inimitable way of his, "I hardly think it would be a good thing to send out."

There is a little lesson in that last sentence we can all take to heart. It may be a long wait until we get one that comes up to the standard in every respect, but when we do the results will repay all our labor and patience. There have been so many varieties put on the market that are of doubtful merit that a novelty has come to be regarded almost with suspicion and is bought generally by the dozen or half dozen instead of by the hundred and thousand, as a good variety should be. The sooner we can get away from this state of affairs the better it will be for all parties concerned. It is only by the thorough trial of all giving promise and the careful weeding out of all second rate sorts that it can be accomplished. Business principles demand it; our reputation demands it; and the general public, who are getting better educated as to the requirements of a first class carnation, will demand it more and more every year.

A. M. HERR.

Useful Tree Ferns.

Several species among ferns of arborescent habit possess enough endurance to permit their occasional use for house decoration, and the combination of massiveness and elegance displayed respectively by the trunks and fronds is to be found in no other class of plants in the same degree.

Of course it is admitted that tree ferns occupy a great deal of space, and also can not be packed away in the greenhouses so closely as some other decorative stuff may be, but the fact remains that they have been used with charming effect for such purpose, and also that the majority may be grown nicely with but ordinary attention.

At the head of the list of useful tree ferns is Dicksonia antarctica, perhaps the easiest to manage and decidedly the hardiest of such ferns.

This species is so well known that it seems almost unnecessary to offer a description of it, except that the trunk is quite stout and ultimately attains a height of about thirty feet. A more useful size for our purpose, however, are nice straight stems from two to six feet in height and crowned with a good head of fronds. Such stems as these are frequently imported in the same manner as cycas stems, that is, with the roots and fronds cut off, and usually require two seasons' growth in order to make shapely plants. About the same temperature and atmosphere that is suitable for camellias is adapted to the needs of Dicksonia antarctica, too high a temperature invariably resulting in an attack of thrips and other vermin, and by which the foliage is speedily ruined.

Another handsome species of this genus is D. squarrosa, and though more rare than the preceding has also been in cultivation for many years.

D. squarrosa has a comparatively slender stem, from the top of which are produced a number of rather stiff fronds of dark green color, and as the fronds usually stand out at right angles from the stem it gives the plant a very distinct appearance. This species also thrives in a cool house, and in common with the preceding enjoys an occasional syringing overhead during hot, dry weather.

Dicksonia Schiedei is a larger grower than either of those mentioned above, but where space will permit should certainly be included, its long drooping fronds being singularly attractive.

The fronds of this species attain a length of fifteen feet or more, being light green on the upper side and more or less glaucous beneath, but such dimensions as these are not reached in a year or two, and therefore, need not alarm the would-be grower. D. Schiedei may also be grown under cool treatment, but makes more progress in a house kept at about 55 degrees.

The alsophilas also include some very handsome species that may be made useful for an occasional decoration, though the fronds of this genus are not as hard as those of the dicksonias, and consequently are more likely to suffer from such use, especially when the foliage is young.

Two species most easily obtainable are A. australis and A. excelsa, both of which are rapid growers and easy to manage, their fronds being large and bipinnate, those of A. australis being lighter colored than A. excelsa, and also having less of the chaffy scales on the stems.

It is essential to the welfare of any of the alsophilas that they should be given an abundance of water at all times, as drought will soon disfigure the fronds.

Cyathea dealbata is another remarkably handsome tree fern that may be grown in a cool house and produces long fronds of similar form to those of some of the dicksonias, their color being dark green on the upper surface, but almost white beneath, the contrast between the two sides being quite striking.

This fern can not be too highly recommended, and the fronds possess such substance that they will stand considerable exposure.

Another notable member of this genus is C. medullaris, a rapid growing species with large bright green fronds, the stipes of which are black, as are also the stems of the plants.

The cyatheas also enjoy copious watering, and syringing is at times beneficial, but as with all ferns watering overhead should not be resorted to except during bright and dry weather.

In the matter of soil the few examples cited are not specially fastidious, the essentials being an open compost composed of rough peat and fibrous loam, to which may be added a liberal allowance of coarse sand, and the plants should be firmly potted.

The application of fertilizers is not necessary until the plants are quite pot-bound, when an occasional watering with liquid manure will be beneficial, but it is best not to apply the latter when the plants are very dry, else more harm than good may result.

W. H. TAPLIN.

Rose Disease

Can any of your readers inform me what is the cause of the edge of some of the leaves of my Bride and Perle roses turning yellow, as though they had an overdose of tobacco smoke, although I do not fumigate them at all? Would worms in the soil be likely to affect them in such a manner? Also what is a good remedy to kill the worms? I use lime water with some success, is there anything better?

W.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Philadelphia.

One of the growers said recently that it seemed to him that the more a man knew about growing roses, the poorer success he had with them, while a novice would go into the business and for a year or two have remarkable success, until he began to know all about it, and then his failures would begin.

The weather has been decidedly wintry the past week, plenty of snow and fifteen to twenty degrees of frost.

Flowers as a rule have been scarce, but as the demand has been light, it is all the better, for with a full supply the market would have broken badly; as it was the prices held up pretty well. Carnations, while in good supply, still command a high price; nothing worth having is sold for less than 2 while the best command $2\frac{1}{2}$ to 3.

Mermets and other roses in their class are bringing 8 to 10; Perles, Sunsets, etc., 5 to 6; no Beauties of any account; Brunners, Laings and Magnas sell from 40 to 60, with hardly enough to supply the demand.

John Burton will commence to cut from a new house of hybrids next week which we are told will be very fine.

New valley is now coming in from all directions, with Ball of Holmesburg away in the lead. Mr. Ball grows valley as well as he does palms, and from our earliest recollection has had the best in this market; it brings from 3 to 5.

The first double daffodils are here but not up to the mark. This flower sells very well later on.

The basket for carrying cut flowers is fast giving way to the box or boxes. Nearly all the growers about here are now delivering their flowers in this way. Shallow boxes fitting into one another and girded with a large strap with which to carry them is a perfect arrangement; the stock is seen at a glance and there is no occasion to handle any except the flowers desired.

Mr. C. H. Grigg has sent out a prospectus of an enterprise under the title of "Phila. plant auction and commission house and wholesale Florists' Exchange." It is intended to hold public sales of plants at stated intervals, to receive all kinds of florist's stock on consignment for private sale and act as agents for growers and others in this market. A department will be devoted to the use of wholesale flower dealers and growers; stalls and booths will be fitted up, provided with necessary furniture and electric light. Space can also be secured for storage in refrigerators. These stalls are to be rented to subscribers only. It is proposed to secure a warehouse in the business centre of the city. The object is to make a headquarters for the wholesale trade in this city. "The cordial co-operation of the trade is earnestly solicited to go toward making this the beginning of a new era in the development of the florist's business in Phila." is the concluding sentence in the prospectus.

"Cordial co-operation" is good when you get it in sufficient quantity. It may be that there is enough lying around to start with. We fully believe that if such an exchange is started and gets any support from the growers it can not help but be a success, at least the department devoted to wholesale flower dealers and growers. There are only three wholesale commission houses in Phila., most of the growers in this neighborhood handling their stuff themselves. If an exchange, worthy the name, is established it will certainly improve the shipping trade as well as greatly benefit the local florist.

As to the auction feature, we have our doubts as to its success, but if the florists are to have a voice in the management of the proposed exchange, which they certainly should, it would doubtless be conducted so as to benefit the whole trade.

Charles Fox is still confined to his house and improving slowly.

Robt. Craig is now able to sit up and is improving though it will be some time before he will be about.

New York.

The cut flower trade has settled down into its regular winter gait. There are balls and parties of all descriptions every day and all the florists who cater for that sort of trade are getting their usual share. The biggest thing of the kind for the season, probably, was the New Year's ball at Madison Square Garden on Jan. 18th. This was not in the garden proper but in the beautiful ball and assembly rooms in another part of the great building. The rooms and the entrances and halls were lavishly decorated with green and flowers, a large force of men having been employed three days in the work. The floral decorations were by the Klunder Co. Three carloads of green were used on the walls, the principal green used being laurel, rhododendron and hemlock. The ball room was heavily festooned with pink roses. On the walls were fifty placques of roses, daffodils, etc., and large quantities of Harrisii lilies and cattleyas were used in corners and other available locations.

The daffodils in market at present are of the variety known as "Incomparable" principally. Their only claim to the name is their early forcing qualities. They are not at all popular with buyers and wholesalers find it a hard task to get rid of them even at low prices. The Von Sion is the "incomparable" narcissus for this market. Jonquils are also difficult to dispose of, and are usually worked into designs or baskets where their bright color gives an opportunity to work them off. There is a tendency to overstock the market on bulbous flowers and there is a regular supply now of about all it will stand. Lily of the valley is improved in quality. Harrisii lilies are rather too plenty. Tulips show but little variety yet, and are still of inferior quality. Aside from the bulbous stuff there is a demand for all the flowers coming in at prices which are fair and which are holding quite steady. Carnations and roses of all kinds are disposed of as fast as cut, and violets still maintain their lead in quality and price over any other eastern market. Grace Wilder carnations are abundant everywhere, even the street stands being well supplied with them, but they all go, there seemingly being no limit to the demand for this popular variety.

W. R. Davison is bringing in some of the finest violets in the market. A sample of them was seen on the table at the Florist Club dinner.

John W. Gibson, of Newport, is at present with the Klunder Co., giving them a lift through the busy season. Newport flower trade is not particularly brisk in midwinter.

H. A. Daacke has offered the use of the basement of his new seed store on 14th St. to the Jerseymen for a cut flower market, where they could meet as do the Long Islanders at 34th St. Ferry.

Mrs. Katharine Dailledouze, mother of the Dailledouze Bros., of Flatbush, died suddenly on Jan. 20th.

Louis Siebrecht, of Floral Park, buried his wife on Jan. 19th.

Chicago.

J. W. Elliott of Pittsburg was in the city last week. Part of his mission was to arrange with Chief Thorpe for space for displaying 10,000 plants of Griffin's tuberous begonias at the World's Fair.

Among other recent visitors to the city were Treasurer Hunt of the S. A. F., E. G. Hill of Richmond, Ind., W. G. Bertermann and C. J. Truemper of Indianapolis and W. W. Coles, Kokomo, Ind. Mr. Hunt seems to have acquired a new badge of office while at Washington. The shine of his silk hat and the depth of the cape on his stunning new coat give quite a tone to any gathering of florists at which he is present.

Owing to the unfavorable weather work is progressing slowly on the new conservatory at Lincoln Park and some doubt is felt as to whether it will be ready in time for the proposed spring show. And now that we shall have so much work to do in preparing for the great International Chrysanthemum Exhibition next fall the society may decide to abandon the project of a spring show this year.

It has been alleged in the daily press that an attempt is being made by interested parties to oust Gen. Joseph Stockton from the Lincoln Park Board and put in a more manageable man. Gen. Stockton has been a member of the board ever since it was organized—18 years ago—and has been its most active and faithful member. His retirement would unquestionably be a serious blow to the best interests of the park, and the florists of the state should bring to bear any influence they possess to prevent the threatened action. The appointment is made by the governor.

There is no material change in the aspect of the market from last week. Stock is generally getting a little more plenty and prices on roses rule a trifle lower. The trade on the whole was rather quiet last week, the demand being light, but as the supply was also limited the effect on prices has not been very noticeable. The bright and pleasant weather of the past few days, however, will work a decided change.

Violets are already beginning to show the effects, the supply in the last few days being more than double the usual cut, and prices are beginning to weaken in consequence. First quality flowers still command from $1.50 to $1.75 per hundred, but fairly good flowers can be bought at $1 to $1.25.

Most of the tulips are still poor, but a few La Reine are very good. Although a white naturally these flowers as grown by Geo. Klehm would hardly be recognized as being this variety, as the color is a beautiful pink. The flowers find a ready sale at a good price.

A few Incomparable and Von Sion begin to appear, an addition to our flower list always welcome to the buyer.

Valley is very much improved and sells more readily.

Buffalo.

Club affairs with us have been very quiet since our last meeting in December, but a full attendance is expected this week to discuss the coming of the American Carnation Society, which will hold its 1st annual convention here on Tuesday, Feb. 16th. It was left to Mr. Scott to make arrangements for hotel, meeting room, etc., and, as will be seen by circulars issued to members, the Tifft House will be headquarters. Since the National Society was here three years ago this house has undergone a great



GROUP OF CYCLAMENS OF THE GIGANTEUM STRAIN.

change. It has changed hands, is entirely renovated, is beautifully furnished and the table is equal to anything in the country. The bar is—well never mind, I had forgotten carnationists need nothing of the kind. Two fine rooms are given to the convention, one for the display of flowers and one for the business meeting. We hope there will be a good attendance. Mr. Hill is coming all the way from Indiana and surely there is no excuse for those residing nearer to stop at home.

Mr. Long is back from Washington and seems to have considerable "Æsthetical responsibility" still hanging about him. He speaks of the Washington meeting as fine in every way, and the New York banquet, to use his own words, "simply elegant". Dan has brought home a strange yarn about his being in a Philadelphia bowling alley and making the second highest score in a game he played, something like 150 he says. There must be a terrible mistake somewhere. We suspect the good natured Philadelphians told their boy to put the pins in a bunch for Mr. Long.

We met the senior member of the firm of Adams & Nolan yesterday. He wore a broad smile and on enquiry found good business to be the cause. This is pleasant to hear, for generally business is considered very quiet.

Palmer & Son have a grand show of Harrisii lilies in their show windows.

James Buxton of Niagara St. has again escaped all disease with his violets. He has several bunches of Marie Louise and the flowers are fine and foliage perfect. He grows them in a temperature of 10 degrees higher than most growers advocate, but he gets there just the same.

Why don't all growers or shippers of violets use a small *rubber band* for tying a bunch of 50 or 100 of these sweet little flowers. The expense is nothing, they are put on in one quarter the time it takes to tie string or thread round the stems, and how convenient when a retailer wants to split a bunch and how much neater in every way. I hope growers will not need a second reminder on this point. G. S.

Providence.

The annual meeting of the Rhode Island Horticultural Society was held on the 20th inst., when the following officers were elected under the new by-laws which went into effect at the annual meeting: President, John G. Massie; first Vice President, Levi W. Russell; second Vice President, Thomas K. Parker; Secretary and Treasurer, Charles W. Smith; Librarian, Thomas K. Parker; Botanist, Prof. W. Whitman Bailey; with a Board of Trustees, Finance, Lecture, Auditing and Necrological Committees and a Committee of arrangements for all exhibitions.

Action was taken looking to an exhibit of the Horticultural resources of this state at the World's Fair. Also some action was taken recommending an exhibit of grapes at the World's Fair, classified in the order of their respective species or intermixture of species and subdivided into groups and families, as was done at our grape exhibition in October last and which attracted a great deal of attention.

The retiring president, Edward I. Nickerson, Esq., delivered his annual address, reviewing the work of the society for the year past and other matters of interest.

The society has held four exhibitions during the year, winding up with a grand chrysanthemum exhibit in November.

After two years of faithful service the retiring president declined a re-election, to the great regret of the members, as he had worked faithfully for the upbuilding of the interests of the society, and by his

urbane and gentlemanly conduct of affairs had won the esteem of all who had to do with him in the affairs of the society.

The new president is a well-known banker of this city, of push and energy and brings to the office a good knowledge of its duties and the needs of the society from being long familiar with its management in other offices.

The society will hold an exhibition of azaleas and other flowers in March, and will also hold exhibitions in June, September and November.

C. W. SMITH, Sec'y.

St. Louis.

The large amount of snow and protracted cold weather we have had during the past few weeks have made business somewhat quiet. Prices are therefore low and flowers plenty, except violets. Azaleas are selling well. It is said that a new wholesale house will start in business Feb. 1st.

A visit to Mr. D. J. Brown's place at Brownhurst, Kirkwood, Mo., found his three 100x20 ft. greenhouses filled with a very healthy and choice collection of orchids, palms, nepenthes, araucarias and other fine stove and greenhouse plants. Here can be found orchids in great variety. In one house is a magnificent display of Cattleya Trianæ in various shades of color, while a mammoth Cattleya Percivaliana, on which are over a hundred flower spikes, hangs suspended from the roof. Of cypripediums, oncidiums and angræcums there is a remarkable collection of rare specimens now in bloom. On one of many racemes of a large plant of Cymbidium Lowianum your correspondent counted sixteen buds.

Mr. Brown has 115 named species of palms. Among them is a specimen of Rhapis Kwamwouzick. This palm is more neat and compact in growth than R. flabelliformis and makes a very handsome decorative plant. Among the fifteen or more species of cycads found here is a noble plant of Encephalartos caffra standing at least six feet high. By its side is a specimen of E. horridus with its bluish green foliage and uninviting spines telling the most casual observer that it is indeed truly named.

One of the most handsome of the nepenthes in Mr. Brown's large collection is N. Courtii superba, for although the pitchers do not grow so large as those of many other nepenthes they are nicely shaped, beautifully colored and spotted.

Calathea Kerchoviana (Maranta leuconeura Kerchoviana) is an old favorite that shows itself to advantage in these greenhouses. J. W. D.

Toronto.

With the exception of spasmodic demands for white cut flowers trade still holds dull. The influenza is doing its work at a lively rate and many are the funerals that take place. It is an ill wind that blows no one any good and what little good there may be in the grip is going to the florists, doctors and undertakers, especially the doctors and undertakers. The writer hereof being afflicted with the complaint was enabled to save himself and his friends a deal of expense by partaking of a decoction made under the direction of the wash-lady; he would give the receipt here, only that the editor would probably say that it did not tend to the advancement of horticulture; let him take care that it does not escape his eagle eye some day and appear as a Coccus adonidum exterminator.

Seed catalogues are dropping in now and so far at least I have not heard that the customs department has laid violent hands on those from the States. The prettiest and most artistic cover I have seen yet is on The Steele Bros. Co.'s (Toronto) seed list.

Mr. J. H. Dunlop has arrived home safely from Washington, at least he has been heard through the telephone. When he gets even with his neglected business again the boys will expect him to give an account of the way he spent his time whilst away.

It is reported that the climate or something (probably something) at Washington has the curious effect of reducing the size of one's hat; it would be interesting to know if any of the other members of the committee had any experience of this strange phenomenon. We who are going there next August are anxious to pick up all the information possible beforehand, as we wish to carry ourselves with a senatorial air and don't want to be giving ourselves away on some little detail.

E.

Louisville, Ky.

On Jan. 20 at 11 p. m., during the coldest weather we have had so far, 4 degrees below zero, a fire broke out in one of Nanz & Neuner's greenhouses devoted to orange and lemon trees, etc. The trees were in full bloom and the flowers would have brought several hundred dollars, same selling at good prices here. They were all in tubs and 8 to 12 feet high, 20 to 30 years old. Having a night watchman on the place the damage did not exceed over $500. They insure all their stock and greenhouses in the Royal, Sun Mutual, American, Lancashire, Niagara, and Alliance Insurance Co.'s. The insurance money was paid within 24 hours after the fire. They recommend these Co.'s to brother florists.

Business in flowers rather light at present and plenty of good stock in market.

Christmas and New Year's trade was better than last year.

Mr. A. Lauer is very sick, for several weeks suffering from the Grippe.

SITUATIONS, WANTS, FOR SALE

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a practical florist and gardener understanding nursery stock; first class references. Address X, care J. C. Vaughan, box 688, Chicago.

SITUATION WANTED—As headgardener by a first class man with 15 years' experience; private preferred; only first class position; good references. C J S, 311 Main St. room 9, Worcester, Mass.

SITUATION WANTED—Experienced gardener, married; private place preferred. Can furnish best of references. Address JOHN RUTHERFORD, care Peck & Sutherland, 67 Bromfield St., Boston, Mass.

SITUATION WANTED—As manager or foreman; thoroughly versed in growing roses, plants, propagating, bulbs, etc; also making up. Over 20 years' experience; references; good wages wanted. Address FLORIST, care American Florist.

SITUATION WANTED—By commercial florist as foreman; thoroughly competent in rose and cut flower growing and all commercial florist stuff, also experienced propagator; age 26, married, no family; best of references. M D, care American Florist.

SITUATION WANTED—By a German, age 30, married, as foreman in private or commercial place, who at present holds the latter. Thoroughly versed in growing roses, carnations, violets, bulbs and plants. Has had experience in leading places in Germany, France and this country for a number of years. Good references. CHAS. JOHNSON, care John Reid, 657 Bergen Ave., Jersey City, N. J.

WANTED—Wholesale catalogues; hardy perennials a specialty. S. J. GALLOWAY, Eaton, O.

WANTED—Good man to work in greenhouse. THOMAS F. DELAHUNT, 13th and Potter Sts., Chester, Pa.

WANTED—An experienced, sober, reliable rose grower; married; no children. Address S E, care American Florist, Chicago.

WANTED—A reliable man; one that understands growing bedding plants and cut flowers. Address Box 43, Alhambra, Ill.

WANTED—Purchaser for my nursery, greenhouse and grounds of 40 acres; among the greatest improvements in America, Long Island. P. H. FOSTER, Babylon, N. Y.

WANTED—A good man to work in greenhouse; one with experience, single man; state wages wanted; references required; commercial. Address O. G. JOHNSON, Kingston, Ontario, Can.

WANTED—Young man of pleasing address, experienced, faithful, well recommended, to take charge of flower sales at a southern winter resort. Address F W, care American Florist.

WANTED—Young man with some experience in greenhouse; must be willing, sober and trustworthy. Good opening for such. Address with references, GEO. E. RHEDEMEYER, Reading, Pa., 113 So. 5th St.

WANTED—In a large New York Seed House a man familiar with flowers, seeds and bulbs; must be honest, sober, quick and competent; state experience, age, whether married or not and wages expected. Box 2449, New York Postoffice.

WANTED, FOREMAN—A man fully competent to take charge of the entire outdoor work of a commercial nursery—fruit and ornamental stock. Can secure a permanent situation by addressing THE BELLEVUE NURSERY, Hammonton, N. J.

WANTED—A good rose grower for commercial place who has had experience in growing other stuff also. Address SUN, care American Florist, stating wages expected and giving references. A good place for a first class man.

WANTED—Advertiser would like to correspond with a commercial florist wishing to engage the services of a working foreman; familiar with the culture of roses and carnations, posted well in the forcing of bulbs, well at home in the store department; can furnish best of testimonials, sober and reliable. Good place only for married man; ready the first of March. Address W A, care American Florist, Chicago.

WANTED—An honest, sober, respectable man as foreman in general nursery, thorough, practical experienced in packing, growing and general run of the business, quick and good worker. Reference required as to character. Moderate education, with a head for business. State wages expected, experience and reference. Also a young man or boy as assistant with some experience in general run of greenhouse. German preferred. State reference, wages, etc ISAAC C. ROGERS, Moorestown, N. J.

FOR EXCHANGE—A well improved 60 acre farm, situated 6 miles northeast of Toulon, Ill., 4 miles from R. R station, for greenhouse or material to build. Address T. Z. MAGARRELL, Kewanee, Ill.

SEED TRADE.

WANTED—Able and enterprising salesman, 25 to 35 years old, with good general knowledge of the seed and plant business, one accustomed to handling market garden trade preferred. If of good character and habits, address JOS. BRECK & SONS, 51 and 53 North Market Street, Boston, Mass.

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Send for trade list of ROOTED CUTTINGS.

J. J. STYER, CONCORDVILLE, PA.

You can save dollars by printing your spring trade list in the AMERICAN FLORIST.

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For Fall Planting.

	Per 100	Per 1000
SMILAX, 2½ inch pots	$1.50	$12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CHRYSANTHEMUMS, large stock plants in variety	20.00	

Address **J. G. Burrow,** FISHKILL N. Y.

Mention American Florist.

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ORGANIZED 1891.

Annual meeting, Buffalo, N. Y., Third Tuesday in February, 1892.

DEVOTED TO THE IMPROVEMENT OF THE CARNATION.

ANNUAL MEMBERSHIP FEE, $2.00.

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And remit Postal Note for $2 00 to

C. W. WARD, TREAS.,
East Moriches, N. Y.

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GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "DORINDA," a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

R. T. LOMBARD,
WAYLAND, MASS.

Place your Orders at Headquarters for

"Grace Darling,"

THE LEADING NEW PINK CARNATION of '92.

Received First Premium at Penna. Hort. Society, Philadelphia.

And Awarded Certificates of Merit and Honorable Mention at New York, Boston, and Baltimore.

Growers of Carnations exclusively, send for general price list.

CHAMBERS BROS.,
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Carnation Cuttings.
NEW AND STANDARD SORTS.

SEND FOR PRICE LIST.

WM. SWAYNE,
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SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN, besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

ROOTED CUTTINGS CARNATIONS ROOTED CUTTINGS.
A FULL LIST OF CHOICE SORTS,
Tested Novelties and Prize Varieties
NOW READY.

Address H. E. CHITTY,
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25,000 ROOTED CUTTINGS
CARNATIONS
NOW READY.

New and Standard sorts, all grown from fine healthy stock. Send for price list.

GEO. B. WHITEHEAD, Green's Farms, Conn.

ROOTED CUTTINGS.

About Feb. 15th, I will have some **50,000** good, well rooted cuttings of MRS. FISHER CARNATION, at $12.50 per 1000; $1.50 per 100.

For next winter's crop of white flowers I will plant nothing but LIZZIE McGOWAN and MRS. FISHER. *(The proof of the pudding is in the eating).* How many shall I book you for?

Price list of other sorts on application. Large stock of GERANIUMS.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

The New Carnations. ROOTED CUTTINGS.

INTRODUCERS' STOCK OF

GOLDEN TRIUMPH, PEARL, AURORA, THOS. CARTLEDGE, PURITAN, GRACE DARLING, CRIMSON CORONET, PEACHBLOW CORONET.

—— BEST VARIETIES OF LAST SEASON AND STANDARD SORTS. ——

Lizzie McGowan, Hector, Mrs. Fisher, Golden Gate, Fred Creighton and other good ones in any quantity.

——) SEND POSTAL FOR DESCRIPTIVE TRADE LIST. (——

30 varieties CARNATIONS. 36 varieties COLEUS. Best bedding GERANIUMS.

ALEX. McBRIDE, Alplaus, N. Y.

ROOTED CARNATION CUTTINGS.

NOW READY. UNSURPASSED IN QUALITY.

Golden Gate, grandest new pure yellow; J. R. Freeman, fragrant crimson scarlet; Constancy, glowing bright scarlet; $2 50 per 100; $20.00 per 10 0.

Wm F Dreer, magnificent fringed rose pink; Nellie Lewis, light pink streaked with darker hue; $3 00 per 100; $25 00 per 1000.

IMPROVED Grace Wilder, the standard pink shade; $2.00 per 100; $15 00 per 1000.

Price of all other standard varieties on application. For well established plants from small pots see illustrated catalogue, mailed free.

Best home grown Double Excelsior Pearl Tuberose bulbs, $8 00 per 1000 by express.

CHAS. T. STARR, Avondale, Chester Co., Pa.

ROOTED CARNATION CUTTINGS.

Portia, Robert Craig, Grace Wilder and Hinze's White, $1.50 per 100
Tidal Wave, $2.00 per 100.
Lizzie McGowan, $3.00 per 100.

DAVID CLIFFE, Germantown, Philadelphia, Pa.

AURORA.

Winner of the Ladenburg Cup for best pink

CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

Send for general price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.
Mention American Florist

PURITAN.

NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:

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From 2¼-inch pots, $12 per 100; $100 per 1000.

Send for catalogue with full description of this and other varieties.

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GEO. HANCOCK, Grand Haven, Mich.

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Silver Spray, Hinze's White, Mrs. Fisher, Jeannette, Portia, Grace Wilder, Fred Creighton, Anna Webb, and Century,

$1.00 per 100; $10.00 per 1000.

Lizzie McGowan, Hector and Florence, $2.50 per 100, American Flag, $2.00 per 100. Orange Blossom, $3 00 per 100. Ready Feb. 1st.

Fuchsias, finest varieties	$ 1 50 per 100
Heliotrope	1.00 "
Ageratum dwarf white and blue	1.00 "
Petunias dbl. white and variegated	2.00 "
Bouvardia double pink and white, stock plants	10.00 "
Pansies from seed bed, extra fine	5.00 per 1000
Daisies	3.00 "
2000 field grown Jack Roses	10.00 per 100

Cash with order. 10 cts. per 100 extra when ordered shipped by mail.

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WE HAVE RECEIVED a copy of the annual report of the Horticultural Society of Japan. It is very neatly printed, in the Japanese language, and is no doubt full of interesting horticultural information. But we have not yet found time to read it—at least as fully as we would like to. An excellent lithograph, giving a bird's eye view of the World's Columbian Exposition grounds and buildings, makes a handsome frontispiece. And in examining the titles to the various buildings it is interesting to note that the Japanese can express in what appears to be only one or two letters what requires a whole alphabet in English.

NEW DAISY "SNOW CREST."—We have received from Mr. Henry A. Dreer, Philadelphia, a dozen blooms of this new double white daisy. The flowers are very double, none less than an inch in diameter, and pure white, on stems from six to eight inches in length. Mr. Dreer writes that well grown specimens will cover a silver dollar, and that the plant is an admirable one for the hardy garden or may be forced for cut flowers under the same treatment as violets. Certain it is that the double daisy as improved of late years is taking a place as a cut flower, especially with those who retail their own flowers.

THE SECOND annual dinner of the Baltimore Cactus Society was held at the residence of a member, in Baltimore, January 21. The menu was very elaborate, the dishes being represented on the card by humorous adaptations of the names of cacti and other plants. This society is composed of ladies and gentlemen whom the secretary facetiously designates as cacto-maniacs and is in a very flourishing condition. It probably is the only existing society devoted entirely to the interests of the cactus.

Catalogues Received.

W. Atlee Burpee & Co., Philadelphia, seeds; Dingee & Conard Co., West Grove, Pa., roses and other plants; Nanz & Neuner, Louisville, Ky., seeds, plants and bulbs; Haage & Schmidt, Erfurt, Germany, seeds; same, plants; H. G. Faust & Co., Philadelphia, seeds; Steele Bros. & Co., Toronto, Ont., seeds and bulbs; Price & Reed, Albany, N. Y., seeds; Michel Plant & Seed Co., St. Louis, Mo., plants and bulbs for florists; J. A. Simmers, Toronto, Ont., seeds; W. Piercy, Forest Hill, London, England, chrysanthemums; A. R. Ames, Madison, Wis., seeds and plants; Seven Oaks Nurseries, Union Springs, Ala., plants; John F. Rupp, Shiremanstown, Pa., seeds; Sherwood Hall Nurseries, Menlo Park, San Mateo Co., Cal., plants and trees.

Boston.

Roses of good quality are coming in all around now, but the demand is greater than the supply and sales are good. Gontiers are particularly fine. A few Bon Silenes are still on the market here and they sell well. Bulbous stuff goes rather slowly, especially tulips and paper white narcissus. Freesias are quite plenty. The wholesalers report the shipping trade as in lively condition.

Lawrence Cotter made a trip round among the New York growers last week and has returned satisfied that they have nothing there at present to excite either the envy or the surprise of a Boston man.

Joseph Tailby recently exhibited the new dwarf calla at Horticultural Hall and received a certificate of merit therefor.

Chas. Evans has recovered so as to be able to come into town, but shows the effects of his illness still.

L. H. Foster and David Allan are still the great violet men.

News Notes.

FLORAL PARK, N. Y.—One of Mr. Julius Scharff's little boys is quite sick of pneumonia.

OWATONNA, MINN.—The Owatonna Floral Association was organized Dec. 30, with a full staff of officers.

MINNEAPOLIS.—Mr. R. J. Mendenhall has returned from Chicago much benefitted by his treatment at the sanitarium there.

AVONDALE, PA.—Mrs. Chas. T. Starr has decided to continue the business of her late husband, for the present season at least.

UNION SPRINGS, ALA.—Our holiday trade was much better than ever before, the demand far exceeding the supply. The supply is still short owing to cloudy weather.

SPRINGFIELD, ILL.—Mr. A. C. Brown, of Brown & Canfield, has been quite ill and is still confined to the house. He was threatened with typhoid but escaped with catarrhal fever.

QUEENS, N. Y.—It is with deep regret we learn that Mrs. Louis Siebrecht died on Sunday, 17th inst. His large circle of friends deeply sympathize with Mr. Siebrecht and his family in their bereavement.

NORWICH, CONN.—Holiday trade was very good, ahead of last year. More demand for cut flowers than for baskets. This winter's demand for set pieces for funeral purposes is greater than at any time for the past dozen years.

NEW BRITAIN, CONN.—The program of the monthly meetings of the New Britain Horticultural Society for 1892 is as follows: March, Aloes, euphorbias and allied plants; April, Amaryllis and crinums; May, Exhibition of pansies and bulbs; June, Exhibition of roses; July, Lilies and geraniums; August, Exhibition of annuals and summer flowering bulbs; September, Coleuses and ornamental foliaged plants; October, Exhibition of dahlias and carnations; November, Exhibition of chrysanthemums; December, Winter blooming bulbs.

GERMANTOWN, PA.—At the meeting of the Germantown Horticultural Society on January 14 Prof. Thos. Meehan gave an interesting address on the various plants and flowers on exhibition, giving special attention to the rose and date palm, of whose origin and history he gave a most instructive account. The advisability of holding a chrysanthemum show next fall and the appointment of an advisory committee to co-operate with similar committees connected with the Horticultural Department of the World's Fair were discussed and final action deferred.

TOPEKA, KANS.—A meeting of the wholesale nurserymen of Kansas, Missouri, Iowa and Nebraska, belonging to what is known as the Western Association, was held here Jan. 6. The association is fighting the importation of California fruit, and wants the various states in this section of the country to pass strict inspection and quarantine laws, to prevent the importation of diseased fruits. The officers elected for the ensuing year were: President, H. T. Kelsey, St. Joseph; Vice President, R. H. Blair, Kansas City; Secretary and Treasurer, U. B. Pearsall, Ft. Scott.

SAN FRANCISCO.—The California State Floral Society held its annual meeting Jan. 8. The society now has 158 active members. A resolution was adopted indorsing the plans of John Thorpe, chief of the floricultural department of the World's Fair, and extending to him all possible assistance in local matters. The election of officers for the ensuing year resulted as follows: President, E. J. Wickson; Vice President, Mrs. L. O. Hodgkins; Secretary, Emory E. Smith; Accountant, Miss Carrie Rixford; Treasurer, Mrs. Helen Cross; Directors, Timothy Hopkins and Captain Kellner.

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LYCASTE,
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PHALAENOPSIS

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FICUS ELASTICA.
VERY FINE FOLIAGE.
14 to 16 in. high, from pot, $4 25 per doz.
18 to 20 in. high, from pot, $6.00 per doz.
24 to 26 in. high, from pot, $9.00 per doz.
Larger sizes from $1.00 to $8.00 each.
JOHN THUMANN,
Fulton Street, Town of Union, N. J.

Double White Primulas.
Fine plants from 3-inch pots, in bud and bloom, at $8.00 per hundred.
BOUVARDIA, strong roots for propagating, single and double white, pink and scarlet, at $4.00 per hundred.
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FLORISTS who take orders for Hardy Rhododendrons, Azaleas, STANDARD ROSES, and other Shrubs and Trees, should write or call at once on
FRED. W. KELSEY, 145 Broadway,
NEW YORK.

Wholesale Market.

Cut Flowers.

	BOSTON, Jan. 26.
Roses, Bon Silene	4 00@ 6.00
" Gontier	5 00@ 8 00
" Niphetos	6.00@ 8.00
" Perle, Sunset	8.00@10.00
" Mermets, Brides	10.00@12.00
" La France	10 00@15.00
Carnations, short	1 50@ 2 00
" long	2.50@ 3 00
Harrisii Lilies	16.00
Valley	4.00@ 6 00
Romans, Narcissus	4 00
Tulips, red	4 00
" white	6 00
Marguerites	1 50
Freesia	2.00
Violets	1 50
Smilax	12.00
Adiantums	1.50

	NEW YORK, Jan. 26.
Roses, Gontiers, Niphetos	4 00@ 6.00
" Perles, Sunsets	4.00@ 6 00
" Cusins, Watteviles	4.00@ 6.00
" Mermets, Brides	6.00@ 8.00
La France	10 00@12.00
" Beauties	25.00@75.00
" Alexieff, Magna Charta	25 00@60 00
Carnations	1.50@ 2 00
Violets	1.50
Mignonette	2.00@ 4 00
" extra	8.00@12.00
Harrisii	15 00
Tulips	4 00
Romans	2 00
Valley	2 00@ 4.00
Cattleyas	50.00
Cypripediums	15.00
Smilax	12 00
Adiantums	1 50
Lilac, per bunch	1 50

	PHILADELPHIA, Jan. 26.
Roses, Brunners	50 00
" Laings, Beauties	25.00@35 00
" La France, Albany	10.00@12 00
" Mermets, Brides	8.00@10 00
" Bennetts	10 00
" Cusins, Watteville	8 00
" Perles Niphetos	5 00@ 6.00
" Gontiers	4 00@ 5 00
Valley	4 00@ 5.00
Carnations	1.50@ 2.00
" Wilders	2 00@ 3.00
Mignonette	2 00@ 4.00
Freesia	1 50@ 2 00
Romans	2 00@ 4 00
Tulips	5 00
Violets	1 00
Smilax	15.00

	CHICAGO, Jan. 26.
Roses, Am. Beauties	15 00@25 00
" Mermets, La France	7 00@10 00
" Albany, Bride, Waban	7 00@10.00
" Bennetts, Dukes	7 00@ 9 00
" Perle, Nipheto	5 00@ 7 00
" Gontiers	3 00@ 5 00
Carnations, short	1 50@ 2.00
" long	1 50@ 2.50
Romans, Narcissus	3 00@ 5 00
Callas	12 50@18.00
Violets	1 50@ 2 00
Smilax	15.00@18 00
Adiantums	1 25
Valley	4.00@ 6.00

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AND JOBBERS IN FLORISTS' SUPPLIES,
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Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
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CUT SMILAX
Over ¼ acre solid beds. First-class quality, 20c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.
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MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
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Shipper of Cut Flowers in any Quantities to any part of the Union.
Roses shipped the past season as far as Washington Territory by our system successfully. (4 days' distance.)
SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
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FLORIST
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ROSES SHIPPED TO ALL POINTS.
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DAN'L B. LONG, Florist,
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FLORAL DESIGNS,
The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

MAIL TRADE in seeds is not opening well so far as reported notwithstanding early and general predictions of a favorable season.

THERE is said to be a surplus of Lima Beans in California amounting to 700 car loads and the production for next year will be much less than usual.

THE QUESTION is again raised, will the Canadian government insist on from three to five cents duty on American seed catalogues this year. It is reported they will.

RICHMOND, VA.—The fire reported in last issue was on the nurseries of W. T. Hood & Co., and not on the place occupied by T. W. Wood & Sons, the seedsmen.

MR. ALBERT DICKINSON is in Florida. He is very slowly recovering from an injury to his knee from a sprain received a year ago, and has not been on 'Change for that length of time.

THE SEEDSMEN'S LEAGUE (Anti A. B. Cleveland) held their winter meeting in New York on January 12. The attendance was light and social matters mainly claimed the attention of the members.

THE JOHN H. ALLAN SEED CO. has been incorporated to succeed John H. Allan at Picton. The new corporation will also conduct business in New York state. Mr. Allan is now 62 years old and wishes to wisely trim his sails.

Obituary.

JOHN A. SALZER the well-known seedsman of La Crosse, Wis., died after a lingering illness of Bright's disease, Jan. 22, 1892, in the 69th year of his age.

Mr. Salzer was born in Dettinger, Germany, and emigrated to America in his twenty-third year, settling at Galena, Ill. His fondness for fruits and flowers began in his childhood, when he served in his father's nurseries until his sailing for America. In 1866 he located in La Crosse, Wis., where he built the first greenhouse in that town, and laid the foundation of his present business, the John A. Salzer Seed Co., which was incorporated in 1886. Of this Mr. Salzer became President and the main share-holder, giving his full time to the growing department.

In every walk of life Mr. Salzer was pre-eminently an honest man. In his business relations there was never a compromise with conscience. There was sterling honesty, right, yes a little more than legal right to every one. He was a liberal, unostentatious benefactor, his gifts to the orphan asylums, the home of the aged, and other benevolencies of his church—the Methodist—though quietly given, reach thousands of dollars. Many a needy family in La Crosse, where his quiet, though ever ready and substantial assistance is known, will miss him.

He leaves three daughters and four sons, all grown, and an aged brother and sister, his wife having preceded him, having died in 1886.

It is understood that Mr. Salzer's death will make no change in the conduct of the seed corporation.

FLORISTS SEEDS. The new crop of many varieties is now in store. *All Spring Bulbs Ready.* J. C. VAUGHAN, BOX 688 CHICAGO. SPRING BULBS.

SPRING BULBS in full assortment.
FLOWER SEEDS. Fresh, pure and reliable.
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Good seed says make the most of the first.
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have made and kept Ferry's Seed Business the largest in the world—Merit Tells.
Ferry's Seed Annual for 1892
tells the whole Seed story—Sent free for the asking. Don't sow Seeds till you get it.
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BUY NORTHERN GROWN SEEDS
SALZER'S
FAIRY PANSY
This strain is the acme of perfection. Nothing that we can say can give you any adequate idea of their beauty and splendor. It is the strain for the Florists. My catalogue contains a colored plate of same. Note low price to florists.
PRICE.
Pkg., 12½c; ½ oz., 50c; ½ oz., $1.75; one oz. $3.25; ¼ lb., $12; 1 lb. $32.
Choice Lycopodium Moss, $2.50 per 100 lbs.
Elegant Catalogue 5c postage.
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Rooted Cuttings.
COLEUS.
The twelve finest bedders, in large or small quantities.
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The best varieties for Cut Flowers.
SEND FOR PRICE LIST.
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Have a few Manettia Bicolor, in 3-inch pots, at 60c per dozen by mail prepaid.
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ESTABLISHED 1838 DREER'S SEEDS FRESH & RELIABLE
TRY DREER'S GARDEN SEEDS
Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.
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ZIRNGIEBEL'S IMPROVED STRAINS
OF
White Asters, Giant Market and Fancy Pansies, New Dwarf White Stocks and Giant Candytuft.
Trade packets of any of the above at $1.00 each.
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New Gardens laid out, and old ones remodelled.

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CAMPHOR SEEDS. . . per lb. by mail, $2.00
MAGNOLIA GRANDIFLORA " " 1.00
Address R. MAITRE, SEEDSMAN, 140 Canal St., NEW ORLEANS, LA.

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Strong trees 6 to 7 feet stem; straight; head perfectly shaped; fine roots. I have 500 for sale at moderate prices.
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Strong heavy plants.....doz. $4.00
Lighter, equal to imported..... " 3.00
ROSES—H. P. 2 year, own roots, choice kinds.....per 100 $10.00
DAHLIAS—50 vars., whole roots, all the proved sorts.....per 100 $8.00
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KAE SHEAN CO.,
Growers of CHINESE SACRED LILY,
HONG KONG.
Goods can be obtained at the following houses:
John L. Childs.....Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan.....146-148 W. Washington St., Chicago.
F. R. Pierson.....Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

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Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
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WHY You Should Grow Mushrooms.
Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

WHEN You Should Grow Mushrooms.
During the Winter and Spring months, the first planting in August or September with successional planting until April.

WHERE You Should Grow Mushrooms.
Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or outhouses, in the open field or in mushroom houses.

How You Should Grow Mushrooms.



First get spawn that will grow. It must be fresh, well spawned, and in good condition. **Gardiner's Celebrated English Mushroom Spawn** is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, **"Mushrooms for the Million,"** Mailed free. **Falconer's "Mushrooms and How to Grow Them."** Published at $1.50. (Gardiner's price $1 35 post free.) **Robinson's "Mushroom Culture,"** 50 cts. post-paid.

GARDINER'S ENGLISH MUSHROOM SPAWN.
John Gardiner & Co., have made a specialty of choice spawn for years, and their celebrated English brand (made by the best maker in England, specially for their trade), has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms. Orders booked now for delivery as wanted, $8.00 per 100 lbs. Special rates to large growers. Address all correspondence to **21 North Thirteenth Street,** Philadelphia, Pa.

JOHN GARDINER & CO.

Dwarf Budded Roses

The stock offered this season is of the same quality distributed by us last year and includes all the leading and popular varieties. Parties contemplating stocking up for spring sales will do well to place their orders at once, as plants are now dormant and can be shipped without any soil at reduced Express and Freight rates.

Alfred Colomb,
Anna de Diesbach,
Baron de Bonstettin,
Baroness Rothschild,
Fisher Holmes,
Gen. Jacqueminot,
La France,
Mabel Morrison,
Magna Charta,
Merveille de Lyon,
Mons. Boncenne,
Paul Neyron,
Prince Camille de Rohan,
White Baroness,
Queen of Queens,
Ulrich Brunner,
Mme. Gabriel Luizet,

$12 per 100; $110 per 1000.

A. K. Williams,
Boule de Niege,
Countess of Oxford,
Coquette des Alps,
Chas. Lefebvre,
Camille Bernardin,
Duke of Albany,
Eugene Furst,
Earl of Dufferin,
Gloire de Dijon,
John Hopper,
Jean Liabaud,
Jules Margottin,
Louis Van Houtte
Mme Marie Finger,
Marie Bauman,
Mme. Victor Verdier,
Mme. Eugene Verdier,

$15 per 100; $130 per 1000.

A fine lot of MARECHAL NIEL ROSES with canes 10 to 12 feet long, pot grown, very strong, $1.00 each.

HENRY A. DREER,
714 Chestnut St., PHILADELPHIA.
Mention American Florist.

Polyantha Rose

CLOTILDE SOUPERT. This is one of the best roses for pot culture. For spring trade we have this rose by thousands, in 2-inch pots.

N. ADMIRAL,
City Greenhouse, DANVILLE, ILL.
Mention American Florist.

A FEW POINTS ABOUT OUR NEW DIRECTORY.

POINT 1.—The new book will contain an accurate list of those in the trade on the Continent of North America, January 1, 1892.

POINT 2.—In addition to the above it will contain the statistics of the Florist, Nursery and Seed Trades from the last census.

POINT 3.—It will also contain a complete list of all National and Local Trade Organizations, with just the information about each that you want to have convenient for reference.

POINT 4.—It will contain an alphabetical list of Roses, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

POINT 5.—It will contain a similar list of Chrysanthemums, also up to date. One that can be relied upon as authoritative.

POINT 6.—It will contain a similar list of Carnations.

PRICE ONLY $2.00.

? Can you afford to be without this book? We don't believe you can.

SEND IN YOUR ORDER NOW.

AMERICAN FLORIST CO.,
54 La Salle Street, CHICAGO.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

Moore's Mermet: It's THE HUGH.

CALL ON OR ADDRESS
FRANK L. MOORE, Chatham, New Jersey.

READY FOR Immediate Delivery,

30,000 LOW BUDDED ROSES.

Ulrich Brunner,
Magna Charta.
Mme. Gabriel Luizet.
Baroness Rothschild.
Persian Yellow.
La France, Etc., Etc.
$10 per 100; $90 per 1000.

Gen. Jacqueminot, 2 years old, own roots $12.00 per 100.

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A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.
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Mention American Florist.

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Shading Greenhouses.

In response to J. S., page 392, would say better way is not to put any paint on your glass. Two years since I was in same position and determined to try something else. Procuring some of the light cotton goods, known to the trade as "Archery Bunting," I cut it in same length as sash bars *inside*, made a deep hem in each end, got some pine lath, slitted them in middle, making two pieces of each, inserted them in hems of shades, making a hole through shade and stick about one and a half inches from edge of cloth, tying in a loop of good strong twine. This for top or ridge end; for bottom one loop in middle is sufficient. To hang them, space off bottom edge of ridge, putting in screw hooks for the loops, letting each hook hold loops of two adjacent shades, which will give them an inch or so lap in their lengths. One hook in plate will hold bottom end. When fall comes and it is desirable to have more light it is easy to unhook and roll them up, storing away until needed.

This plan has so completely filled the bill with me I was prompted by editorial, page 488, to give my experience to the fraternity. I found but one inconvenience in this plan, that is when roses or vines are trained to rafters, but they can be loosened and suspended by loops to hooks which can be put through the shades into the wood.

This for wood houses; having the hint anyone having iron buildings will find means to apply the principle.

Fulton, N. Y. D. A. WATERMAN.

In regard to the article on shading on page 488, why can not the curtain be arranged on rollers, inside instead of outside, so as to overcome the difficulty caused by snow, wind and frost?

C. H. J.

[They are not infrequently so arranged, but do not seem to give satisfaction in most cases, except in houses devoted to tropical plants. The theory, as we understand it, is that while such a shading intercepts the light rays it does not prevent the heat rays from entering the house. And the shading needed by the average florist is one that will intercept the heat as well as the light rays. Indeed at most times it is more important to exclude the heat than the light rays, and after the heat rays have passed through the glass they are in to stay until expelled by ventilation and excessive ventilation while cold winds are blowing is we know undesirable. The best shading to intercept the heat rays of the sun is one that is placed over the glass and sufficiently above it to allow a current of air to pass between it and the glass. This seems to have been satisfactorily demonstrated and the main thing to now consider seems to be how to secure such a shading, that can be easily removed at any season at pleasure, be securely held in place and is at the same time not too costly. We hope there will be further discussion upon the matter.—ED.]

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This is a good thing for cutting. Will flower first season from seed if sown early.
Fresh Seed Crop of 1891.
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Seed Growers,
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ORCHID PLANTS READY TO BLOOM.
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only and can furnish in sizes of from 4 inches to 4—6 ft. We imported over 30,000 lbs past season, and can refer to the best firms in the United States as to satisfactory results. Full information as to freight rates, mode of treatment, etc., given on application. Our terms are consistent with **BONA FIDE** stock.
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The largest stock in the west, at $5.00 per 100 to $1.00, $2 00 to $10 00 each. Cycas revoluta, 50c to $5.00 and $15.00 each. Cycas leaves 25c. to 50c. each
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Foreign Notes.

Vienna held its first chrysanthemum show during the season just past.

An English grower finds that some daffodils do well in ground penetrated by tree roots.

According to an English correspondent Bletia hyacinthina is an economic orchid, a strong glue or cement being made from its bulbs by the Japanese.

A statue in memory of Benedict Roezl, the adventurous botanical traveler, has been erected at Prague.

A proposal has been made to remove the historically famous Jardin des Plants from Paris to Versailles.

The English National Chrysanthemum Society is considering the question of holding a chrysanthemum show in October this year.

The Midland Counties Pansy Society (England) gave a very satisfactory exhibition last year and has issued an extended schedule for an exhibition next June.

Chrysanthemum Viscountess Hambleden, which was certificated by the English National Chrysanthemum Society, was, says the *Gardening World*, raised by Mr. Robert Owen from an American variety, Miss Anna Hartshorn. It is a delicate silvery blush pink.

The latest English gardening society is "The National Amateur Gardeners' Association."

Mr. Ant. Roozen, the founder of the well known firm of Ant. Roozen & Sons, bulb growers, Haarlem, Holland, died Dec. 16.

The Marguerite carnations seem to have been generally disappointing on extended trial. But an English grower believes that it will be the forerunner of a new race of winter bloomers by crossing with the Perpetual kinds.

An English rosarian thinks that Ma Capucine and Mme. Chedane Guinoisseau are the loveliest of roses for the buttonhole. He says they "seem to have been raised expressly for the purpose," and that "most rose buds are too fat for buttonholes."

So many chrysanthemums of American origin are doing well in the hands of English growers that they are beginning to look with increased interest for the advent of American seedlings.

A correspondent of the English *Journal of Horticulture* describes the plan adopted at the largest American exhibitions of displaying chrysanthemums and other cut flowers on long stems in vases and urges that the same plan be adopted at English shows, excepting for certain classes of chrysanthemums.

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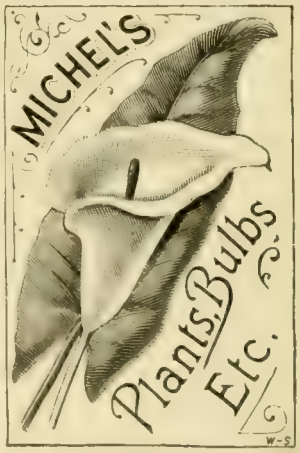
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WHITE DOVE. A finely serrated edged white, of fine form and finish. Strong constitution but not coarse in growth. An unusually free blooming, long stemmed variety of great size. For free blooming qualities, strength of growth and splendid flower we believe this white variety is by odds the most valuable variety up to date. The strong clove fragrance is another point in its favor. $12 per 100; $100 per 1000.

ATTRACTION. Stem stiff and bearing a flower of a new shade which catches the eye at once. It is a soft rosy scarlet, but very brilliant in tone. Flower of good size and borne in the greatest profusion. $12 per 100.

INDIANA. Flowers very large and fringed, a grand upright, stiff stemmed variety, perfectly healthy and free of bloom. The ground color of the flower is a creamy white, very heavily flaked and pencilled in carmine pink. The largest and handsomest variegated carnation yet introduced. Flowers over three inches across and never burst. $12 per 100.

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FRED DORNER. Creamy white delicately pencilled pink. A large unique shaped flower, of a peculiarly pleasing shape and color. First prize at Orange, N. J., Nov., 1890.

JOHN BERTERMANN. One of the good things of the year. Creamy white in color; of great size and substance. Flower incurving from the center. One of the best for late blooming.

MRS. ROBT. CRAIG. Pure snow white, of Chinese incurving form. Silver medal and first class certificates.

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With every set will be sent a plant of Black Beauty—the sensational prize winner at Philadelphia show in 1890, which we advertised last year but could not distribute on account of accident to stock plants. A double dark crimson variety.

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I make a Specialty of packing stems for flower growers.
Prices and references sent on application.
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I had a chimney flue that troubled me a great deal to clean. I tried to get a line through by tying a cord to pussy's foot and coax her through but it wouldn't work. I finally succeeded by working as follows:

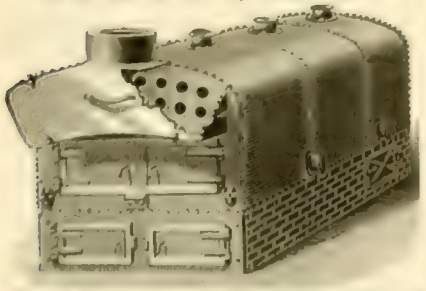
Making an opening near the boiler I introduced a ten-foot pole in the end of which was a nail to which the line was attached. This carried the line in ten feet and as far as my arm would reach. Then I made another opening as far along as the line had been already carried, and so continued until the line was through the full length, when it was tied to a stake at that end. After working the pole back and out again at the boiler end I tied to that end of the line a bag rolled up which when drawn through the flue to the other end by the line cleaned the flue nicely and it now works like a charm. Of course the openings were again closed up.

Seneca Falls, N. Y. C. H. GLEASON.

[Would it not have been well to have drawn a wire through with the bag, attaching it to the brick work at each end, to be used to draw a line through the next time you wish to clean the flue thus doing away with the necessity of subsequent openings except at the ends?—ED.]

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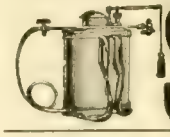
2	inch.	per 1000.	$3 25	5-inch.		per 100.	$ 1 88
2½	"	"	3 50	6	"	"	2 20
2¾	"	"	4 00	7	"	"	3 50
3	"	"	5 00	8	"	"	5 00
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4	"	"	9 00	10	"	"	10 00

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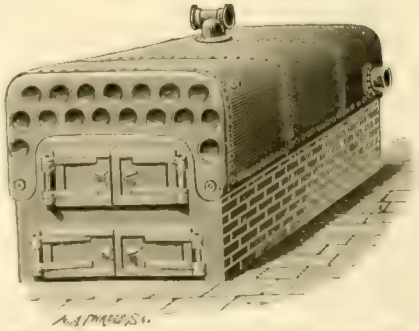
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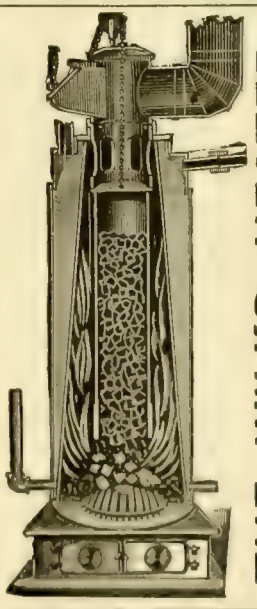


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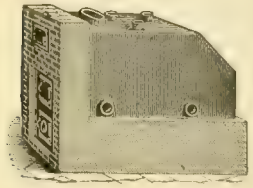


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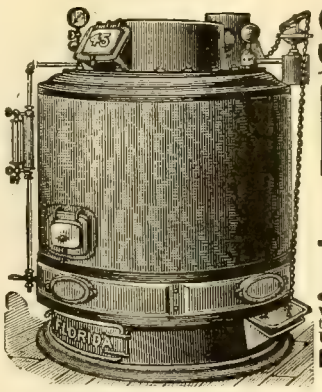
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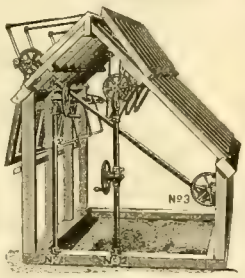
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A Bad Fire.

A press telegram announces that the entire plant of L. Templin & Sons, Calla., O., was destroyed by fire about 2 o'clock the morning of last Monday, Jan. 25.

The telegram states that the buildings and stock are a total loss and that the loss will reach $20,000, with only $5,000 insurance. The fire is supposed to have started from a defective flue.

The loss will be more severely felt as the busy season was just opening. They were mailing an edition of 100,000 catalogues.

They will immediately rebuild.

J. H.—We do not know where the metal box corners may be had. Should think that any large hardware supply house could supply them or tell you where they could be obtained.

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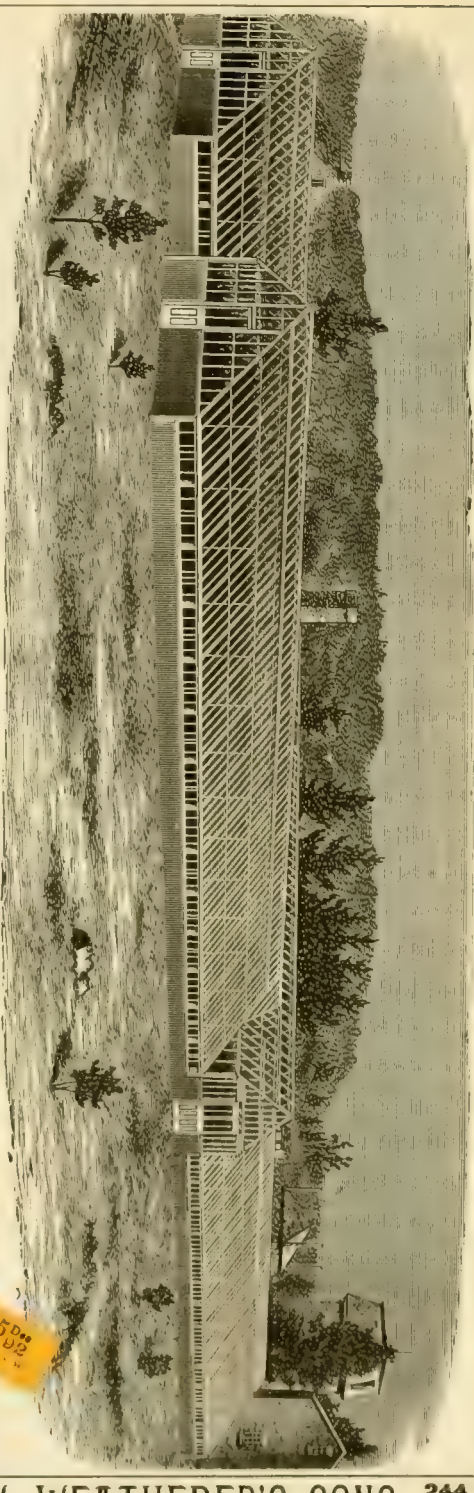
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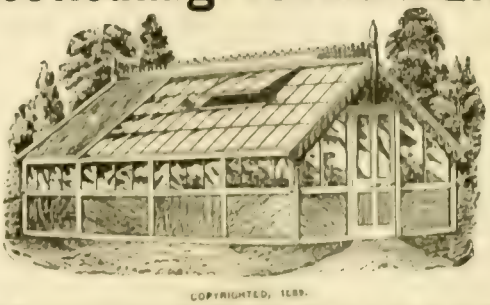
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Goodell HH Mass Agri Col 1892

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A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol VII. CHICAGO AND NEW YORK, FEBRUARY 4, 1892. No. 192

THE AMERICAN FLORIST

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PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

54 La Salle Street, CHICAGO.

SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

AMERICAN CARNATION SOCIETY.

EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., president; C. J. Pennock, Kennett Square, Pa., secretary. First annual meeting and exhibition at Buffalo, N. Y., February 16, 1892.

FLORISTS' PROTECTIVE ASSOCIATION.

Gives information to members regarding the financial standing and business integrity of those in the trade. H. B. BEATTY, Sec'y, Oil City, Pa.

AMERICAN CHRYSANTHEMUM SOCIETY.

JOHN THORPE, Chicago, president; EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., secretary.

FLORISTS' HAIL ASSOCIATION.

Insures greenhouses against damage by hail. JOHN G. ESLER, Secretary, Saddle River, N. J.

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WE ARE now gathering material for our annual special spring number and the many attractive features it will contain will make it an issue long to be remembered.

WE HAVE again been obliged to lay over several articles until next issue. All will appear shortly.

THAT new directory is still coming, but when it arrives you will agree that it was worth waiting for.

Notes from Washington.

THE BOTANIC GARDEN.

Midwinter, and even then during a continuous drizzle of rain or sleet, is a discouraging time to visit this garden, the Mecca of American florists. Here it is where our kind and genial vice-president reigns supreme, and where he has brought together the largest collection of plants in any one garden in America. The weather forbids any perambulations out of doors, but the glass houses are many and spacious, and as we pass along through them we cluster around Mr. Smith like children about a favorite teacher, absorbing the histories of the many rare and striking plants he directs our attention to, and the happy stories he has to relate regarding them. But these you had better hear from his own lips next August, when you attend the convention; and in the meantime I will note a few plants on my own account.

PITCHER PLANTS.—The nepenthes are the East Indian group. They are vines, with longish, flat leaves terminated by a tendril-like nerve with a pitcher at the end of it. In their native country—the Indian Archipelago mostly—the vines run 10 or 20 feet long; in our greenhouses, however, while we can easily get them as long as this if we want to, big pitchers, and many of them, are our main object, and we attain this end more effectually by an annual cutting back of the long vines. This induces a short, stocky growth, and renders the plants well fitted for growing in suspended baskets. Besides many species of nepenthes, Mr. Smith has quite an assortment of garden hybrids and varieties, some of which are tiny seedlings, with pitchers not so large as a baby's thimble.

SARRACENIA is the other section of pitcher plants. It is an American genus and abundantly represented in our swamps by the side saddle plant (S. purpurea). In the southern states also occur several other species, the commonest of which is flava; but psittacina, Drummondii, rubra and variolaris are also plentiful in their respective neighborhoods. In sarracenia the leaves are all radical, and in the form of hollow tubes, large and erect as in Drummondii, or small and twisted at the end as in variolaris. Both nepenthes and sarracenia are insectivorous, that is, they trap insects in their pitchers, and Mr. S. will tell you some queer stories about this provision of nature. In a cultural sense, however, not only are insects unnecessary for the welfare of the plants, but we can grow finer plants and finer pitchers without the insects than with them.

OTHER INSECTIVOROUS PLANTS.—The common round-leaved and oval-leaved sundews (drosera), found among sphagnum in our swamps, are also insectivorous. Mr. S. has several other kinds, some indigenous to this country and others to the Cape of Good Hope. At the ends of the hair-like bristles on the leaves hang little drops of a dew-like glutinous liquid, which proves alluring to small flies, and when they come to sip they get caught in the glue and cannot escape. Venus' fly-trap (Dionæa) is another curiosity. It is found wild in sandy bogs around Wilmington, N. C., and is one of the most wonderful plants in nature. The trap part is at the end of the leaf, and when open is not unlike a rounded-at-the-corners open book, bordered with finger-like bristles. On each face of the open pages are three bristles of exceedingly sensitive nature; in fact, they are the spring of the trap. A fly may alight on the trap and walk over it with impunity so long as it does not touch one of these bristles; but the moment it does the two leaves of the trap shut together with a bound, the finger-like bristles on the edge interlock, and the fly is a prisoner for life; that is, till the plant eats it up!

REINWARDTIA TRIGYNUM, usually called linum, is the bright yellow flowered plant a good deal grown in pots for Christmas work about Philadelphia. It is very showy when well grown, and always in bloom, but not as generally cultivated as it ought to be. Easily raised from cuttings. Plants one to two years old, nipped in a little to make them stocky, are the most available. Although the flowers drop in quantity every day, as flaxes always do, they are borne so profusely and continuously, that we fail to miss those of the day before. Because of their fugacious nature, of no use for cut flowers.

REINWARDTIA TETRAGYNUM is another species closely related to the last, but readily distinguishable by reason of its sulphur yellow flowers, longer leaves, and if anything, ranker growth. Mr. Smith is high in its praise. "Now let me tell you," he remarked, "if you want a gem of a pot plant for the holiday trade, grow that. Yes, and the other one (trigynum) too; you want them both, the golden yellow and the sulphur yellow."

RUSSELIA JUNCEA.—A dear old friend. Its slender, branchy, rush-like stems shoot up and droop again like a shower of vernal spray, jewelled with narrow tubular scarlet flowers. When well grown it is a pretty plant. Excellent for basket work, and of the easiest possible cultivation and multiplication—good qualities enough to make an old plant *new* again.

ARDUINA SPINOSA.—Now here is a little gem of a pot plant from the Cape of Good Hope. It was 9 or 10 inches high by nearly as much across, and a dense cushion of small box-like green leaves interspersed with many little spines and sweetly pretty fragrant white flowers. It will probably never become a popular

pot plant with the florist, but many an amateur would rave over it.

STIGMAPHYLLUM CILIATUM.—"Now, if you want a neat little vine to plant by a trellis or fence in your garden in summer, put this in your pocket and try it; it will please you, I am sure." So said our cordial guide. Here, give us your ear, Mr. Novelty: This vine is old as the hills, easy to grow, easy to propagate, easy to get up a big stock of, and it grows first rate in a sheltered, sunny place out of doors in summer and blooms beautifully. And the accepted English name of it is Brazilian Golden Vine!

VELTHEIMIA VIRIDIFOLIA.—A bulbous plant from South Africa, and which blooms at this time of the year. Of neat habit, with broad, deep green, slightly undulated radical leaves. The flowers are reddish fawn, tubular, in a dense raceme like a tritoma, terminating upright, stout scapes 18 to 20 inches long. An easily-grown, long-lived, pretty enough plant, but not striking at all.

"CALATHEA LEITZEI is, in the way we use aspidistra, rubber and such, one of the very best house plants we have got," said Mr. Smith. It is a glossy, deep, metallic green leaved maranta from Brazil, and seems to enjoy a place under the bench as much as on the stage.

PERISTROPHE SPECIOSA is a pretty plant from India, common in greenhouses, easy to grow and profuse, and it blooms most all winter long. Nice plants run from 20 inches to 3 feet high, and proportionately bushy. It has justicia like, deep carmine-purple flowers that, because of their great quantity, give the plants quite a showy appearance. I would not recommend it as a stage plant, but rather as a companion to Eranthemum pulchellum and the like, to stand near pathways in palm-houses and large conservatories for varietal effect. Raise a fresh lot from cuttings every year. Of no use for cut flowers.

ARBUTUS UNEDO is the strawberry tree of Southern Europe. It is not hardy in the northern states, but we grow it in pots or tubs as we do hollies, bay laurels and the like, and set them out doors in summer and winter them in doors, sometimes in a cool greenhouse, at other times in a shed or cellar. But as the strawberry tree blossoms in winter, it has a claim upon us few other half-hardy trees have got, and it gets greenhouse accommodation. Mr. S. has a large specimen in a tub in the cooler part of the conservatory, and every little twig is now terminated by nodding racemes of white heath-bell flowers. The name strawberry tree is given to it because of the resemblance of its scarlet fruit to the strawberry, and as the ripe fruit hangs upon the tree till it comes into flower again, they add materially to the beauty of this evergreen shrub—for it isn't a big tree.

FICUS STIPULATA AS A TREE.—"Look here," exclaimed Mr. Smith, "this plant is Ficus repens (stipulata) pure and simple. I obtained it by continuous selection, by cuttings from that little creeping thing there on the wall; but it took me twenty years to get it." The plant he showed us was a stout, branchy, tree-like specimen, about four feet high, and, except in a generic way, without a particle of resemblance to the creeping ficus so common in our greenhouses. Well, the leaves were shaped somewhat like those of the original parent, but many times larger and thicker.

JATROPHA PODAGRICA.—A curiosity among plants. Exceedingly odd and striking and beautiful in bloom. It is one of the fleshy-stemmed cactus-like euphorbias from tropical America. The plants are one-stemmed, about 20 to 24 inches high, 5 or 6 inches thick, and vase-shaped; smooth-skinned (that is, without any furrows or spines like a cactus), and perfectly leafless (at this time of the year). In fact, they rather suggested vase or urn-shaped blocks of wood. But surmounting each plant was an upright broad cyme of vivid orange-scarlet blossoms that at once rivetted our attention.

SCHAUERIA CALYCOTRICHA is name enough to kill the popularity of any plant no matter how good and desirable it may be. Let us call it the golden justicia, for this is what it is. It is a little Brazilian plant, 1 to 2 or 3 feet high, as the cultural conditions may occasion, and a winter bloomer. The plants if left alone have a one-stem tendency, but by pinching them when young they form branchy specimens. The flowers are yellow, and borne in terminal thyrses, and from their feathery appearance the heads are quite suggestive of yellow plumose celosias. It lasts in bloom a long time.

APHELANDRA AURANTIACA ROEZLII.—It was a pleasure to meet this vivid, orange-scarlet beauty. What a lovely race of plants the aphelandras are! And so charming for winter work. Beautiful in leaf and flower, and small plants bloom freely. Still they don't seem to make headway as popular plants, because, I presume, they require considerable attention to grow them well. Mr. Taplin used to do them splendidly in years gone by, at Such's nurseries.

PANAX "GRACILIS."—A little beauty. Quite suggestive of parsley, only more deeply incised. A lovely little plant for any decorative purpose. But I am somewhat ill at ease about the name "gracilis," and rather incline to believe that this is the little plant that was intoduced from Brazil a few years ago under the name of Panax crispatum. Will some one give us light?

ASYSTASIA (Henfreya) SCANDENS, a climbing vine from Sierra Leone, is, Mr. Smith says, one of the best plants to grow in a dark place in a warm greenhouse.

POLYPODIUM AUREUM AREOLATUM (sporadocarpum) was pointed out to us as being the bluest of all the glaucous blue fronded ferns.

DAVALLIA TENUIFOLIA STRICTA.—Speaking of this plant, President Dean remarked, "perhaps the best commercial fern in the market to-day."

ADIANTUM CAPILLUS-VENERIS, commonly called Venus' hair maiden-hair fern, is indigenous to the southern states, central and southern Europe and many other parts of the world; but, except by fanciers and in large collections of ferns, not frequently cultivated in our northern gardens. In one of the small greenhouses on the wall under the side benches, we noticed a wealth of maiden-hair ferns. "Why, that's Capillus-Veneris," replied Mr. Smith; "it grows there of its own accord, spreads all over the wall, and is one of the best plants we have got to naturalize in such a dark, shady place as that is, under the stage of a cool greenhouse."

POLYPODIUM QUERCIFOLIUM.—Descending the steps going from one compartment of the large conservatory to another, we pass by a tall stump or pillar, completely incased with this long-running rhizomatous fern, whose broad, deeply divided and glossy fronds spread out in hundreds, a winning picture of tropical luxuriance.

STAGSHORN FERNS (Platycerium).—Mr. Smith prides himself upon his fine collection of these artificial looking plants. When they are well grown they are really handsome, and they are so tenacious of life and easily managed that we don't wonder amateurs have considerable partiality for them. Among those Mr. S. pointed out to us were the old æthiopicum from the Guinea coast; biforme from the East Indies; alcicorne, the elk's horn fern from temperate Australia, and its variety majus from Polynesia; Hillii, from Queensland; grande, from northern Australia, Willinckii from Java.

WM. FALCONER.

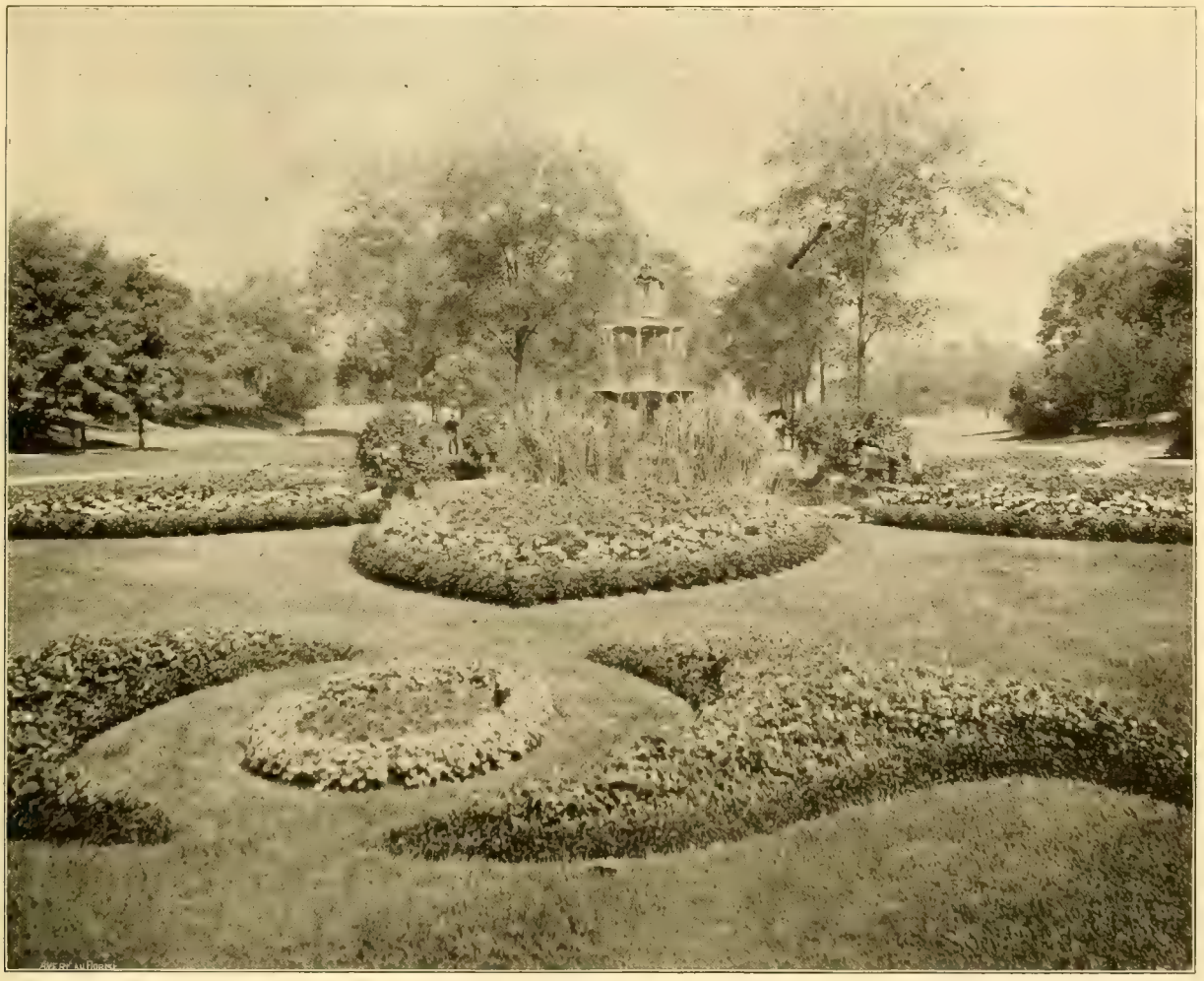
Electro-Culture.

Bulletin No. 16, of the Hatch Experiment Station of the Massachusetts Agricultural College, Amherst, Mass., is devoted to a brief summary of previous results in electro-culture and to a report of experiments made at the station. We give below a report of the experiments made at the station with lettuce grown under the influence of dynamical electricity. The full bulletin may be had on application to the station as above.

The following experiments were made at this station: Several plots were prepared in the greenhouse, all of which had the same kind of soil and were subjected to like influences and conditions. Frames in the form of a parallelogram, about three feet by two feet, were put together; across the narrow way were run copper wires in series of from four to nine strands, each series separated by a space about four inches wide, and the strands by a space of one-half inch. These frames were buried in the soil of the plot at a little depth, so that the roots of the garden plants set would come in contact with the wires, the supposition being that the currents of electricity passing along the wires would decompose into its constituents the plant food in the vicinity of the roots and more readily prepare it for the plants. Two electric gardens were thus prepared and each furnished with two common battery cells, so arranged as to allow continuous currents to pass through each series of wires. Near each electric garden was a plot prepared in the same manner, save the electrical apparatus. We will call the two gardens A and B.

The place chosen for the experiments was in a part of the greenhouse which is given up largely to the raising of lettuce, and the gardens were located where much trouble from mildew had been experienced. The reason for this choice of location was to notice, if any, the effect of electricity upon mildew, this disease being, as is well known, a source of much trouble to those who desire to grow early lettuce. The soil was carefully prepared, the material taken from a pile of loam commonly used in the plant house.

GARDEN A was located where mildew had been the most detrimental; the experiments began the first of January and closed the first of April. For the garden fifteen lettuce plants of the head variety were selected, all of the same size and of the same degree of vitality, as nearly as could be determined; the plants were set directly over the wires, so that the roots were in contact with the latter; the plants were well watered and cared for as in ordinary culture, and the fluid in the battery cells was renewed from time to time, that the current of electricity might



VIEW IN LINCOLN PARK, CHICAGO.

not become too feeble. At the close of the experiments the following results were noted:

Five plants died from mildew, the others were well developed and the heads large. The largest heads were over the greatest number of wires and nearest the electrodes. It was further noticed that the healthiest and largest plants, as soon as the current became feeble or ceased altogether, began to be affected with mildew. On examining the roots of the plants it was found that they had grown about the wires, as if there they found the greatest amount of nourishment; the roots were healthy and in no way appeared to have been injured by the current, but rather, much benefited by the electrical influences.

Beside garden A was prepared another plot of the same dimensions, having the same kind of soil and treated in like manner as the first but the electrical apparatus and wires were wanting. At the close of the experiments only three plants had partially developed and two of these were nearly destroyed by mildew—one only was free from the disease. The results, therefore show that the healthiest and largest plants grew in the electric plot.

In the second experiment, which we called B, twenty plants of the same variety of lettuce and of equal size were taken. The treatment given was the same as the plants in plot A received. Five plants only remained unaffected with mildew; seven died from the disease when they were half grown; the rest were quite well developed, but at the last part of the experiment began to be affected. Several heads were large, the largest being over the greatest number of wires and nearest the electrodes. Examination of the roots disclosed the same phenomena as in A.

Near plot B were also set twenty other plants, subjected to like conditions as the first, but without electricity; all but one died from mildew before they were half grown, the solitary plant that survived being only partly developed at the close of the experiment, and even this was badly affected by the disease.

Everything considered, the results were in favor of electricity. Those plants subjected to the greatest electrical influence were hardier, healthier, larger, had a better color and were much less affected by mildew than the others. Experiments were made with various grasses but no marked results were obtained.

The question would naturally arise whether there may not be a limit reached where electricity would completely overcome the attack of mildew and stimulate the plant to a healthy and vigorous condition throughout its entire growth. From the fact that the hardiest, healthiest, and largest heads of lettuce grew over the greatest number of currents and nearest the electrodes, it would seem that electricity is one of the agents employed by nature to aid in supplying the plant with nourishment and to stimulate its growth. To what extent plants may be submitted to electrical influence, or what strength of current is best suited to them and what currents prove detrimental to their development, have not been determined as yet, but it is desirable to continue this research until some definite information shall be gained on these points. Probably different varieties of plants differ greatly in their capacity for enduring the action of electric currents without injury—experiment alone must determine this.

It has been proved that the slow discharge of static electricity facilitates the assimilation of nitrogen by plants. Faraday showed that plants grown in metallic cages, around which circulated electric currents, contained 50 per cent. less organic matter than plants grown in the open air. It would seem from the researches of the latter physicist, that those plants requiring a large percentage of nitrogen for their development would be remarkably benefited if grown under electric influence.

"Those Dark North Side Places."

ED. AM. FLORIST:—If I may be allowed to take from Mr. Scott's excellent answer to "E. G. B.'s" question the above caption as a theme I will give my experience with north side propagating.

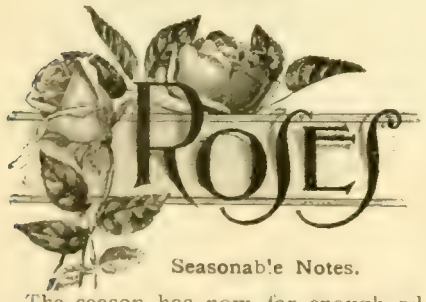
Where there is much propagating to do I believe it pays to have a place or house set apart for the purpose. If you have to depend on a bench or section of bench in a house where plants are growing it is often difficult to regulate the temperature to suit both plants and cuttings and a

bench arranged like the one described below has given uniform satisfaction.

The house is 18x100, hip roof, running about northeast and southwest, with a partition about 5 feet from the north side, making practically two houses, one a ¾ and the other a lean-to house. A three foot bench leaves a convenient walk in this small house; over the walk are sixteen ventilators 3x3 feet. Under the bench are five steam pipes (very seldom more than three used) with valves arranged so that one or all can be used; the front of the bench is boarded up, with here and there a board that drops on a hinge; the back of the bench is completely shut off from the bottom heat also. With four inches of sand kept at a temperature of 60° and properly moistened and the air above at 50°, cuttings of roses, carnations, chrysanthemums, etc., root readily and produce good plants. The cuttings require no shading, except through the summer months, as the sun does not shine directly on the bed; it is not a dark place, but a well lighted and wholesome place, filled with pure air, and no mildew or fungus will be found there if the sand is properly changed.

One end of the house can be used for Rex begonias and such plants as do not require direct sunlight; here the side boards are taken off or dropped to allow of a warmer temperature overhead. The sand nearest these plants is used for cuttings of coleus, begonias, heliotrope, etc.

"NORTH SIDE."



Seasonable Notes.

The season has now far enough advanced to give some additional stimulant to plants that are growing very freely, particularly those growing on very shallow benches; to such, a weak liquid, made as previously directed, may be given once a week or ten days, according to the condition of the soil. For it should always be remembered that to water any plant while it is already moist enough, is simply doing much more harm than good. Better far, wait two weeks or even longer to get the soil in the right condition before giving liquid manure, than to run any risk by giving it to the injury of the plants. There are undoubtedly more plants, not only of roses, but of all other species, killed by over-watering and over-feeding than from all other causes combined.

A safe guide to follow before watering is to examine the soil carefully in several places where it looks the dryest, also where it looks moist; and if the soil will crumble when rubbed in the hand, instead of adhering or sticking to the hand, it can safely be watered; and when doing it, give it a good fair soaking, enough to thoroughly moisten every particle of it; but do not make it so wet as to appear like mud—though some soils can be watered much more heavily than others.

Where green fly shows itself, lose no time in exterminating them by the application of tobacco in whatever form has been found the best. Keep all weeds and dead leaves cleared off, as those only harbor and encourage insects. Syringe well under the leaves and the whole of the plants, except the flowers, on all bright mornings. This is much best done as early as can conveniently be done in the morning, so as to allow the surplus moisture to dry off before night. This will also save considerable fuel in a season, as a fairly dry atmosphere in the house can be heated and kept warm much more easily than a damp one.

The greatest enemy to a rose house from this time on are red spiders, for where they once get a footing it is very hard to exterminate them. Persistent syringing, with an occasional application of sulphur on the pipes when quite hot, are the best remedies—particularly if proper attention is paid to ventilation at all times.

J. N. MAY.

Salt in Water.

My roses have not done well and I suspected that the water I was using (drawn from the Arkansas River) was responsible for poor results. At the suggestion of the editor of the FLORIST I obtained an analysis of the water from the state geologist and he tells me that it contains 72 grains of matter in solution to the gallon, of which 61 per cent is common salt.

Will this amount of salt injure my roses? This is the maximum amount of salt the water ever carries as at certain seasons of the year the matter in solution does not exceed 13 grains, but usually the salt can be tasted in the water and in the fall of the year it is so strong as to be very unpleasant to the taste.

Little Rock Ark. M. W. HERRON.

Steam vs. Hot Water.

Many of the readers of the FLORIST are familiar with the results of the comparative test of steam versus hot water from greenhouse heating, carried on at the Michigan Agricultural College during the winter of 1889—90, which showed 24 % in favor of hot water.

The experiment was continued last winter with practically the same results. In addition to the records of the temperatures of interiors of the houses, an account was kept, for several weeks, of the temperature of the gases passing through the smoke pipes of the heaters, by means of thermometers inserted near the chimney. The average temperature of the gases in the smoke-pipe of the steam heater was found to be 25% higher than that of the water heater. As the heat given off by the coal consumed in the steam heater, was 24 % more than from that used in the water heater, the reason of the economy of hot water heating, can easily be seen if 25 % of the heat goes up the chimney in the steam, in excess of that lost in the water heater.

I enclose a letter recently received from Messrs. Joy & Son of Nashville, Tenn. giving the results of a similar trial which they wish brought to the notice of the world. As I know of no better medium then the columns of the FLORIST, I send it to you. It will be noticed that the hot water heater consumed about 24 % less than the steam heater, thus giving identically the same results as were obtained here in 1890, and practically the same as were obtained by Prof. Maynard at the Mass. Agricultural College.

Mich. Agric. College. L. R. TAFT.

Mr. J. Coenen, a florist of Louisville, Ky., has been making some experiments in this line that the world ought to hear of.

He has two plants, of four houses each, both exactly alike, each heated by a 20-horse-power boiler, one with hot water, the other with steam, 2-inch pipe used in each case.

He states that last winter it took 2100 bushels of coal to heat the range where steam was used, and only 1600 bushels for the hot water heated houses, and the latter gave him much the most satisfaction in other ways also. He is forcing roses. How is this for hot water in 2-inch pipes? JOY & SON.

Nashville, Tenn.



Orchids at North Easton, Mass.

The orchid houses of F. L. Ames are a splendid sight as present. Masdevallias, cypripediums, dendrobiums, odontoglossums and lælias innumerable are now in bloom, many of them being specimen plants of the rarest kinds. In a few weeks the Odontoglossum crispums, for which North Easton is noted, will be in bloom; also seedlings of great promise in dendrobium hybrids.

Cœlogyne spikes are showing by the thousand. One specimen of the pure white variety is two feet through, and will be grand. In the stove house are many elegant specimens of new anthuriums, and the beautiful fern grotto never looked more luxuriant than now. To enumerate all the new and rare orchids now in bloom would be an arduous task, but here are a few of the very rare ones which are in perfection at present.

Cypripedium Niobe, a beautiful hybrid between Fairieanum and Spicerianum; C. Polletianum, a hybrid between œnanthum and calophyllum; C. Sallieri aureum, hybrid between insigne and villosum; C. insigne Macfarlanei, an unspotted form, most beautiful and delicate; C. insigne Chantini, Philbrick's variety; C. bellatulum egregium; C. œnanthum superbum and C. Leeanum superbum.

Masdevallia Courtauldianum, a hybrid between Shuttleworthi and rosea, one of the best, flowers large (this is a specimen plant and has twenty blooms); M. Schroderæ, a beautiful new species, upper part of sepals sanguineus purpure, basal half white (this plant has fourteen blooms); M. ignea erubescens, deep-colored carmine stripes, very showy; M. Measuresianum, hybrid between Tovarensis and amabilis, a delicate form, white tinged with purple; M. seedling, a hybrid raised by Mr. Robinson from erubescens and Lindenii, it shows the character of both parents and is grand in form and color.

Lælia exoniensis, a Veitch hybrid, one of the best (this plant bears six large flowers); L. furfuracea, delicate rose pink, a pretty form, but smaller than autumnalis; L. anceps Amesiana, anceps Schroderæ, anceps holochila and anceps Williamsii; L. Sanderiana, a plant with fourteen spikes and forty four flowers; L. Gouldiana with fourteen flowers, and a plant of Stella bearing twenty-two spikes and seventy five flowers.

Dendrobium Murrhinianum, a hybrid between nobile and Wardianum, a large flower intermediate in form, color white tinged with rose, magenta disc; D. longicornu; Catasetum saccatum, the Pelican



BEGONIA VERNON (SEMPERFLORENS ATROPURPUREA).

orchid; Saphronites grandiflora rosea and Cattleya Trianæ alba, true.

Among the Odontoglossums are O. crispum, Vincksianum, pure white with brown spotting and rounded sepals and petals; O. Bonnyanum and the pretty O. Hunnewellianum, one of Mr. Robinson's own seedlings.

Cœlogyne.

There are a great many varieties of this species, many of them being very handsome, with flowers richly marked, and others again being small and inconspicuous and not worth house room. They are all evergreen pseudo-bulbous plants, the flowers generally produced with the young growth, and the leaves being perfected when the flowering season is over. I do not propose to describe the whole genus, as most of them are only useful to the orchid enthusiast, but shall confine myself to one variety, the most useful and easiest grown white orchid in cultivation, viz., C. cristata.

This variety does best in pots with peat and living sphagnum moss. They require good drainage and plenty of water at the roots during the growing season. When at rest they should have but little water. This variety does well in a cool house when growing, but when growth is completed it is best to place the plants in a warmer place and keep dryer, as if left in a cold damp house the flower spikes are apt to damp and get black. When in flower care must be taken to keep damp off the flowers or they soon spot. If the flowers are kept free from damp they will last for five or six weeks in perfection.

This is one of the standard orchids for cut flowers in England and as the taste for orchids for cutting is on the increase here there is no reason why it should not become as popular here.

The flowers of C. cristata are produced six or eight together in a drooping raceme, each flower being about three inches across, the petals and sepals undulated, pure white in color, with a blotch of yellow on the crests of the lip. It blossoms in February and March.

C. cristata alba is similar to the above in all respects except that it has no yellow on the lip, being pure white everywhere.

C. cristata citrina is a distinct variety, flowering rather later than the type. The lip is light lemon color and not yellow as in the ordinary form of the species.

C. cristata major is a much larger, stronger growing variety with very broad petals and much larger flowers than the original variety.

This is everyone's orchid. Rand says of it: "With an ordinary greenhouse it is as easy to grow and flower as a verbena."

Maywood, N. J. JAS. S. TAPLIN.



Carnation Crops.

In this issue of the AMERICAN FLORIST we desire to give some interesting figures on carnation culture. Our object is twofold; first, to revive one feature of communications which attained to much prominence and interest last winter; secondly, to give our reasons for being able to pick nearly twice as many flowers from the same number of plants as we did one year ago. We especially make this observation because we have seen no florist whose carnations are as prolific this season, in the vicinity of Philadelphia, as they were one year ago.

House No. 1. Planted Sept. 25, dimensions of house 25x100 feet, center of house planted in a solid bed 10x86 feet, with a two-foot path in the centre, contains 1,330 plants of Hinze's White. For November we cut 4,515 flowers; December, 4,723; to Jan. 15 inclusive, 3,192; total 12,430.

It is often said that Hinze's is only a cropper. Whoever makes that claim must acknowledge that, in this case, it is a long and big cropper. We expect to get 15,000 flowers from this bed between Jan. 1 and March 1. First, because the plants are improving daily, and more buds are in sight to-day than ever. The above figures show at a glance the first two months averaged $3\frac{1}{2}$ flowers per month per plant. The first 15 days in January show a greater average.

The side benches in this house and across one end are 4x217 feet, and contain 1,270 Grace Wilders, which produced for November 3,974; December 3,543; to Jan. 15 inclusive, 1,376; total, 8,893. An average for the Wilders for two months of $3\frac{1}{2}$ flowers per plant per month.

From the above figures every indication points to the Wilders being more of a cropper in habit than the Hinze's. The difference in their values, however, proves the Wilder to be the most profitable.

House No. 2 is about the same size, with side benches $3\frac{1}{2}$ feet wide; planted in the centre with roses in a solid bed. On the side benches are planted 1,120 Grace Wilders. The carnations do better in this house than in either of our 5 houses devoted exclusively to carnation culture, the flowers being larger and a better color. We do not attain this result at the expense of the roses, because they have done well all winter and promise well for the future.

These 1,120 plants gave for November 4,763; December, 5,007; to Jan. 15 inclusive, 1,629; total, 11,399. Average for two months, $4\frac{1}{2}$ flowers per plant per month. The average of the Wilders for both houses is 3.87 flowers per plant per month. As compared with the Hinze's, this is about 10 per cent. in favor of the Wilders.

From the above it will be seen that our average cut for this season to Jan. 1 for both varieties is 3.65 per plant per month. From the record at the same time last year our cut was 2.75 per plant per month. If we have made no error in calculation, it will be seen we are cutting one-third more flowers this year than last.

We attribute these satisfactory results to more careful and thorough culture.

Bristol, Pa. DEWITT BROS.

Begonia Vernon (Semperflorens Atropurpurea).

This new begonia seems to have been accepted as the most useful novelty in begonias that has been introduced for some time.

In habit and freedom of bloom it resembles the well known B. semperflorens rosea, but the flowers are a rich orange carmine and the foliage a glossy red. The stamens are yellow, which gives an especially brilliant effect to the staminate flowers.

It is thought that this begonia will be very popular as a bedding plant as well as for pot culture.

Callas.

We had the misfortune to have a lot of callas frozen one stormy night. They were just coming into bloom; would it be best to let them dry off a little before starting again? Have cut off all the leaves. Will we be able to get them in a salable condition by May, and how would be the best way to treat them? SUBSCRIBER.

New York.

Business with the city florists continues brisk. The only complaint one hears at present is of the scarcity of certain varieties which are in demand and the occasional tale of woe by the florist who has been "victimized" out of stock or good money by some of the many sharpers who are constantly at work in the big city. The tricks adopted by these swindlers, who in many instances are women, are, according to the mournful accounts given by their too-confiding victims, varied and ingenious, and clever indeed is the florist who does not sometimes get caught in spite of all his precautions.

A remarkable feature of the market this year is the almost entire absence up to the present time of hybrid roses, which have been in the past largely forced for early winter flowers. It clearly did not pay the growers, else we should still see the early hybrids coming in. An occasional handful of Magna Chartas is all there is to be seen in this line. Not even the old standby, Jacq, is obtainable. The result is that American Beauty is the only large rose and Meteor the only crimson rose offered in any quantity and both these varieties have been in brisk demand, the supply falling far short of the needs of the market. Some of the American Beauties coming in from S. C. Nash to Burns & Raynor are of unsurpassed quality and are about as near the ideal perfect rose as any rose can be. The funny classification of the Beauties according to length of stem is still in vogue and when a specimen happens to be just a fraction of an inch short of the stipulated length for a certain class it is as good as a circus to watch the controversy between buyer and seller. The tape measure or the rule is at once brought into requisition and if there happens to be a crook in the stem this is carefully straightened out while measuring and taken full advantage of.

Pink seems to be the most popular color in roses this season. The Madam Cusin, a few years ago classed among the cheapest and most undesirable roses, is to-day in the lead as a favorite and keeps alongside and sometimes ahead of the Mermet in price. Pierson of Tarrytown is sending in some of these which are superb in coloring and size. The Watteville also takes well in the prevailing taste for pink. At Young Bros.' the two rival claimants for popular favor, the Waban and the Hugh, are to be seen side by side every morning and are the occasion of many a warm argument. One of the best growers for this house is Ernst Asmus. His Meteors are first class and Madam Hoste as sent in by him is an ideal rose. He speaks highly of its bearing qualities and regards it as one of the best paying varieties, but it does not seem to catch the buyers equal to the Bride. The Bride is the great standard white rose here and some of the best in the market are coming from the original disseminator, J. N. May. The growers here appear to have learned the secret of making the carnation popular. All long stems is the rule, regardless of unopened buds, and the growers seem to vie with each other as to length of stems and quantity of foliage sent with their flowers.

Bulbous flowers have improved somewhat, tulips especially. These are coming in with good full flowers and stems of fair length. A few of the double varieties are beginning to appear. Von Sion narcissus still maintains the lead over all other varieties. The polyanthus varieties are totally unsalable and do not bring the growers enough to pay for original cost of the bulbs. Dutch hyacinths are sent in with the bulbs left on the spike. There is a fair supply of the Italian hyacinths offered and the quantity of white Roman is at present very light. Lily of the valley averages good as far as the flowers go, but is unusually deficient in foliage. Lilacs sell well, the purple tinted bunches seeming to be preferred to those that are pure white. The worst load on the market at present is smilax. This comes in by the barrel and is disposed of with great difficulty.

Harry Blizard, living at 52 South 5th avenue and well known in New York florist circles, was before the Harlem police court on Jan. 21 charged with stealing an overcoat from a house where he had been employed to attend to some plants. He was held in $1,000 bail for trial.

The committee having in charge the arrangements for the next chrysanthemum show meets every Monday for the present and is making good headway on the premium list, which will be published very soon. The question of a spring show in 1893 is also being considered and an exhibition on a scale of magnificence heretofore unequalled may be expected for that time.

The house of Adolph LeMoult was visited by burglars recently and a quantity of silverware and money was stolen.

J. A. DeVeer is about to remove his office from New York City to Northport.

Chicago.

It is a pleasure to report that in spite of factional opposition the governor last Thursday reappointed Gen. Joseph Stockton one of the commissioners of Lincoln Park, and that the Park will continue to have the benefit of Gen. Stockton's long experience and progressive ideas.

At the meeting of the Florist Club last Thursday evening, the committee appointed to ascertain whether those cemetery companies who had branched out into cut flower growing on a large scale had exceeded the rights conferred by their charters, reported, and the report, accompanied by copies of the charters of two of the companies, showed pretty conclusively that the companies had decidedly exceeded their rights. After some little discussion the club by vote instructed the committee to have the matter thoroughly examined by a lawyer of recognized ability, and submit his written opinion to the club at a future meeting. The sentiment was general that the club should take steps to see that the illegal competition of untaxed corporations was stopped, but it was felt that each step should be taken deliberately, and advised by legal counsel.

It was proposed by Mr. Sanders that the club undertake to supply a flag for the Horticultural Building at the World's Fair. In the discussion it was thought best to invite other clubs throughout the country to take part in the project, and thus make it national in character, and the officers of the club were instructed to ascertain the sentiment of the other clubs regarding the matter.

Mr. Hartwig paid the penalty for not having his essay prepared, and declared that it was cheaper for him than to give away all his trade secrets. There was a great deal of merriment over the affair, especially when Mr. H. announced the number of Garfield carnations it would take to make up the cost of the penalty. But it didn't take as many of his as it would of some other growers', for he grows them fine. Regarding the subject of his essay, Mr. H. says that when you grow the roses good and the carnations poor, the roses are the most profitable; but when you grow the carnations as they ought to be grown and the roses as they ought not to be, then there is the most money to the grower in the carnations. "Just as plain as A. B. C." says he. "How can you expect me to write an essay on such a simple matter?"

At the next meeting of the club Mr. E. Buettner, of E. Wienhoeber & Co., will read an essay upon a subject of his own selection, probably upon the violet and the violet disease. At the second February meeting Mr. F. Kanst, Sup't of the floricultural department of the South Park System, will read an essay on the growing and handling of bedding plants in large quantities, regarding which no man in America is better able to give instruction than he.

Mr. Alex. Newett lost his wife last week. Mr. Newett has the heartfelt sympathy of all in the trade in his bereavement.

Mr. Charles Reissig is down with the prevailing "grippe." The severity of the attack, in view of his advanced age, has seriously alarmed his family and friends.

Mr. Ernst Wienhoeber is also confined to the house by an attack of the prevailing disease. But the attack is a mild one, and he will undoubtedly be around again at an early date.

Chief Thorpe reports very numerous responses to the circular published in last issue, and that the display of the plants there named, and particularly cyclamens, at the Fair will be superb. The project of an International Chrysanthemum Show in the Horticultural Building next November is meeting with warm support on all hands, and a grand show seems already assured.

Mr. P. Blaumeiser of Niles Center, was married Jan. 26.

Rumors have been rife regarding a combination of Niles Center growers that was to make itself felt in the manipulations of prices, but nothing tangible has as yet resulted.

The committee from the Florist Club met the committee from the State Hort. Society last Monday afternoon and held a lengthy conference. On Wednesday the committees jointly presented the claims of horticulture in the state exhibit to the State Board, who control the funds.

St. Louis.

Last week saw white flowers somewhat scarce, this week finds just the reverse: so say our commission men, a statement the retailers verify. This has been a comparatively busy week. Balls, theatre parties and social gatherings of various kinds have all helped to keep things lively. Probably one of the chief events of interest, to the florist's eye, during the past week was the Firemen's Ball at the Exposition Hall, at least the florists doing business in that vicinity seemed well satisfied with the "haul" and wish such "happenings" would come oftener.

Mr. Tesson's roses are just coming in. Consignments of Beauties, Hostes and Brides just sent in by this crack rose grower can beat most of the shipments sent here from the east.

Mr. Hampt, our new wholesale man, is starting business on a principle new to the trade in this section. He purposes, as per notice sent to growers, to have his customers sign a ticket stating the price paid by them for cut flowers, etc. On

this ticket will be the grower's number. These pieces of cardboard are to be periodically sent to the various growers showing them quite conclusively that their wholesaler is not a fraud.

Mermets and Brides are bringing $2.50 per dozen; La France, Albanys, Bennetts, Wattevilles, Hostes and Woottons $2.00; Papa Gontiers, Perles and Niphetos $1.50; Valley and bulbous stuff in general has good sale at $1.00 per dozen; Mignonette $2.00; carnations at 75 cents to $1.00.

Messrs. Young & Sons, who by the way have just had published as fine a plant and seed catalogue as St. Louis has ever seen, have a nice show of pansies in full bloom. The flowers sell readily at 50 cents per dozen. This firm seems to be the only one to force that queen among spring flowering shrubs, the lilac. Sprays of this flower sell from 75 cents to $1.00 each.

One florist received a novel order for a wedding this week. It was for eight bouquets, one of which, the bride's, was to be of valleys and the other seven of loosely arranged marguerites, margined with their own foliage entirely, and just 300 in each bouquet.

Pres. Harrison is a carnation that sells well here. Its stiff stems and delicate coloring make it a general favorite. Perhaps its name has something to do with its popularity just at this time. The double daffodils sent in thus far have averaged good.

At the Missouri Botanical Garden the following is a list of the best azaleas now in full bloom: Mlle. Marie Rossel, a variety with beautiful, large, salmon colored double flowers; A. Dante, an old favorite, with its magnificent, crimson, double flowers; A. violaria multiflora, a small flowered but good variety coming rather later than the others, with flowers somewhat purple in color.

On Friday, the 29th inst., Mr. R. J. Lackland, president of the Boatmen's Bank and also president of the Board of Trustees of the Garden, in the presence of the board and others, went through the ceremony of planting near the new herbarium building a beautiful twelve year old specimen of the red flowered horse chestnut, Æsculus rubicundo. This tree is a hybrid between the common horse chestnut and the pink flowered, sweet buckeye. It is perfectly hardy with us, but not as generally cultivated in this country as its merits warrant. The specimen was moved from an obscure place in the garden, where it had a year previously been subjected to such root pruning as would induce it to throw out roots near to the trunk, thereby making it better able to stand the change and any subsequent ill usage. J. W. D.

Boston.

Flower trade is somewhat slackened up, and prices are showing signs of weakness, with the probability of a decided drop in the near future if the weather should be favorable. Carnations are getting quite abundant, but the demand for white ones is fully up to the supply still.

The florists all report a large amount of funeral work, in which, in many cases, they have been obliged to use Cape flowers and milk weed balls, on account of the scarcity of fresh material. There are violets enough for all demands, although it is difficult to understand where they all come from, as most of the large violet growers here have a lively dose of the disease on their hands, and houses that looked so promising a few weeks ago are now a sorry looking sight and can be smelled three blocks away.

There are a few hybrids and Jacqs coming in with prospects for an increased supply right along. Bulbous flowers are selling more slowly, and have dropped in price all along the line. Warren Ewell has begun his regular annual supply of pans of tulips, valley, daffodils and the like, and the florists' windows are gay with these tempting and most seasonable little arrangements for house culture.

Azalea plants are quite plenty and seem to sell well, and there are also some good genistas, cinerarias and Chinese primroses in market.

W. H. Elliott's new house, built especially for the culture of Asparagus plumosa, is a nine days' wonder to all visitors. It is twenty-five feet in height. Mr. Elliott explains that he "wants to give the asparagus room to grow." His stock of old plants of this variety is enormous, and young plants by the thousand in pots are tucked away in all available corners. His rose houses are all built on the side hill system, heated by steam furnished by a 90-horse-power boiler. His Gontiers are very fine this season, also his Mermets. The Waban is doing well here, and Mr. Elliott says he has no fault to find with the rose itself or its selling qualities. It comes very dark in color with him. His neighbor, Morey, is also cutting magnificent Gontiers, and the Mermets and Brides are very healthy. The best Mermets coming into the Boston market at present are from J. Frank Curtis, of Newtonville. They are grown in solid beds and have stems like walking sticks.

At W. H. Elliott's, Lawrence Cotter's and Waban Conservatories there are fine hybrids and Jacqs in prospect, but at none of these places has there been any effort made to get extra early crops of these roses, so that it will be about Easter time before they make any impression.

Ernst Asmus honored Boston with a short visit last week and made good use of his time while here, visiting a number of the prominent growers. As usual when a visitor of note makes such a tour, from constant additions to the party it becomes quite a delegation by the time it reaches the last place. A photograph of this party as it appeared mounted on an express wagon in the wilds of Dorchester would make a big card for the FLORIST, but, unfortunately, that part of it was overlooked, and a reproduction from memory would be very deficient.

Toronto.

Just at the present time King Grip rules the land. He is a hustler and manages to find out all about the interior organization of all his subjects whether they be Monarchist, Anarchist, Republican or Democrat. He is not popular either, but what can we poor mortals do but grin and bear it.

Cut flowers are scarce and in good demand, but still prices are low. The supply of roses seems to be especially short just now, but retailers cannot raise prices. Trade altogether in a kind of jerky condition.

Tuesday (26th) afternoon last was a mild afternoon and "old probs" did not give word of anything else, but after dark a big wind sprung up and before ten o'clock that night the thermometer was only two degrees above zero. Only that it came on before the night's firing up there would have been great wailing among florists and gardeners next morning and as it was some did get pinched a little. I have not heard of any great losses though.

For the last week or two back gardeners have been changing places at a lively rate. Mr. R. Marshall (formerly a florist) takes the place of Mr. Chapman at Col. Gzowski's place; Mr. John Brine, formerly with Mr. P. Mearns (florist), is now gardener to Mr. G. O. Bickford; Mr. A. Dietrich, late foreman to Mr. J. H. Dunlop, has pulled up stakes and gone to Indiana, by which move the club loses a good member and the city a good rose grower; Mr. H. J. Cole of Rochester, who lived some years in Toronto formerly, takes his place at Mr. J. H. Dunlop's. Other minor changes might also be recorded.

E.

Philadelphia.

Business the past week has been better there being quite a demand for good flowers. Hybrids have been scarce and Beauties are not up to the mark. Carnations are selling very well at good prices. Extra fine flowers sell readily and command fancy prices in the stores there being a great demand for fine pinks. The general run of prices is about the same as last week. Tulips and Von Sions are now coming in fine and selling well.

Mr. Grigg met a few of the growers by appointment and had a talk with them, in order to get their views on the proposed exchange. "Agitate," was the watchword of the Abolitionist, "agitate" is the watchword of the prohibitionist, and brother Grigg will have to adopt it, if he wants to live and see his project carried out. Competition is the life of trade but the average Philadelphia grower seems to want to sell to his customer in a corner by himself.

Shading Greenhouses.

Since it is out of the question to apply movable shades in the shape of rollers outside of greenhouses, then why should it not be practicable to have them inside? They might be made after the principle of window shades with self-acting rollers. Have them the width of the sash, or in other words, one shade between two rafters. Place the roller at lower end of sash near the wall plate. Attach a cord to the ends of the shades and run them through pulleys near the ridge. In this manner we could shade part of the house or all of it, as occasion would require. If unrolled at night time they would certainly keep out several degrees of frost. The rollers are cheap, and the cheapest cloth with the loosest texture would answer the pupose far better than more expensive stuff. I think plant-protecting cloth would be just the thing. If this should be universally adopted, there will soon be some Yankee who will invent an apparatus to shade the whole of a 300-foot greenhouse with a single crank. C. EVERDING.

Branford, Conn.

A VERY neatly gotten up circular offering cut blooms of orchids, has been received from Mr. H. Sunderbruch, the wholesale florist of Cincinnati. It is remarkably effective typographically, and at the top appears the following, in quotation marks: "If Solomon in all his glory was not arrayed like the lily of the field, the angels in heaven have no raiment more ethereal than the flower of the orchid." Harry, where did you find it?

News Notes.

OTTAWA, ILL.—Fred J. King is dangerously ill with combination of rheumatism and lung trouble.

MENLO PARK, CAL.—The crops in two rose houses of the Sherwood Hall Nurseries were lost by gas entering the houses from leaking pipes. The leaves all dropped off the plants.

KINGSTON, MD.—The greenhouse, stock and personal property of the late Thomas G. Harold, were sold at auction last month. The real estate, including the greenhouses and considerable nursery stock, have since been sold, but no one is carrying on the business.

PASSAIC, N. J.—Three large greenhouses belonging to Geo. Woolson, who is at the head of the horticultural department of public parks, were destroyed by fire on the morning of Jan. 27. The houses, together with their valuable contents, were a total loss. There was no insurance.

PITTSFIELD, MASS.—The officers of the recently organized Berkshire Gardeners' and Florists' Club are: Pres., Col. Walter Cutting, Pittsfield; 1st Vice-Pres., John White, Pittsfield; 2d Vice-Pres., Wm. Griffen, Lenox; Sec'y, A. H. Meredith, Pittsfield; Treas., H. P. Lucas, Pittsfield.

DENVER, COLO.—The Colorado Nursery Company is shortly to be re-organized and will commence operations on a large scale. The gentlemen interested are J. L. Russell, C. L. Burpee, of Rockford, Ill; Frank Bailey, F. W. Hubby, of Cleveland, Ohio, and Avery Gallup. The company has secured 45 acres in Myrtle Hill.

NEW BEDFORD, MASS.—At the last meeting of the Gardeners' and Florists' Club the old officers were re-elected to serve until January, 1893. It was decided to hold the regular meetings of the club on the second Monday of each month instead of the second Wednesday as heretofore. The meetings will be held in Odd-Fellows Building. Secretary Geo. C. Bliss has been confined to the house by illness for the last four weeks.

CHESTERTOWN, MD.—The residence of Robert G. Nicholson, the nurseryman, was destroyed by fire the afternoon of Jan. 26. The building was insured, but the loss of valuable papers will be a serious matter, as Mr. N. kept the more important documents connected with his business in a room of his residence. He was away from home at the time of the fire, and nothing of consequence was saved. Mr. Nicholson is a member of the S. A. F.

GRAND RAPIDS, MICH.—The many friends of Mr. Charles W. Garfield will learn with deepest regret of the untimely death of his wife, Mrs. Allie Garfield, which occurred Jan. 15. Mr. Garfield was himself confined to his bed at the time. Both suffered from pneumonia induced by grip. Mr. Garfield was first stricken and was gaining when his wife became ill. Against the advice of physicians, he insisted upon caring for her. The result was a relapse, and he is not yet out of danger, though in a hopeful condition at last accounts.

SAN FRANCISCO.—There was not over a half supply of flowers of first quality for the holiday trade, the supply of roses being particularly short. Prices ruled higher than ever before in the history of the city except in the early days when rosebuds sold for $5 each. There were plenty of fine poinsettias and Roman hyacinths though both sold rapidly and at fancy prices. California mistletoe was used to the almost entire exclusion of the imported, and locally grown English holly far outsold the Eastern American article. At date (Jan. 21) there are plenty of choice roses. Waban is rapidly supplanting Mermet. Plenty of narcissus, jonquils, valley and Roman hyacinths, and violets both white and purple, single and double. Carnations scarce. A few Harrisii lilies, cypripediums, tuberoses, chrysanthemums, etc.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young man of some experience in the florist (grower) business. References. NELSON PETERSON, Oklahoma, O. T.

SITUATION WANTED—By young man in a wholesale establishment, to learn the trade. References. Address Box 312, Waynesboro, Pa.

SITUATION WANTED—By a thorough, experienced gardener in private place. No. 1 references. A. M. WILSON, 612 Broadway, Milwaukee, Wis

SITUATION WANTED—By florist and gardener; Scotch; thoroughly understands the trade. First class references. Address J. RITCHIE, 140 N. Morgan St., Chicago.

SITUATION WANTED—By a young man 19 years of age, as general greenhouse assistant. Good experience. Address W. J. SCOTT, box 141, Grand Haven, Mich.

SITUATION WANTED—By practical florist to take charge of place; thorough commercial experience. Age 29; single. Good references. Address ENERGY, care American Florist, Chicago.

SITUATION WANTED—As headgardener by a first class man with 15 years' experience; private preferred; only first class position; good references. C J S, 311 Main St., room 9, Worcester, Mass.

SITUATION WANTED—On private place as foreman by first-class florist and landscaper; thoroughly competent to take charge of large place; 20 years' experience. Married, no family. Best of references. Please state wages. WM. MILLER, 1019 7th St., N. W., Washington, D. C.

SITUATION WANTED—By a thorough, practical florist and landscaper; fully competent to take charge of a first-class private or commercial place. Has had experience in leading places in Switzerland and France, and in this country for 5 years. Swiss; married; age 30. First-class references. Good wages expected. Address HENRY RELLSTAB, 215 High St., West Mt. Vernon, N. Y.

SITUATION WANTED—By a first-class florist; age 24; single; German; to take charge of commercial place, or part of it. Thorough, practical knowledge in growing of roses, cut flowers and general greenhouse stock; experienced in decorating and designing. Best of references. Only west wanted. State salary. Address M, care C Bohnenstiel, Elmwood Place, Hamilton Co., Ohio.

WANTED—Good man to work in greenhouse. THOMAS F. DELAHUNT, 13th and Potter Sts., Chester, Pa.

WANTED—Price lists of nursery stock, small fruits, and perennial plants. Address SOUTHWORTH BROS., Salem, Mass.

WANTED—Purchaser for my nursery, greenhouse and grounds of 40 acres; among the greatest improvements in America, Long Island. P. H. FOSTER, Babylon, N. Y.

WANTED—A good man to work in greenhouse; one with experience, single man; state wages wanted; references required; commercial. Address O. G. JOHNSON, Kingston, Ontario, Can.

WANTED—Thorough working florist, either on salary or as a partner. Party with a few hundred dollars to invest preferred. References. Address C S F, care American Florist, Chicago.

WANTED—A good florist and gardener; single. Steady work; salary $40 a month and board. Must be sober and honest, and come well recommended. Address MATH. KRANZ, Great Falls, Montana.

WANTED—A good rose grower for commercial place who has had experience in growing other stuff also. Address SUN, care American Florist, stating wages expected and giving references. A good place for a first class man.

WANTED, FOREMAN—A man fully competent to take charge of the entire outdoor work of a commercial nursery—fruit and ornamental stock. Can secure a permanent situation by addressing THE BELLEVUE NURSERY, Hammonton, N. J.

FOR SALE—First class retail florist business. One of the finest locations in the city, including all trade of prominent caterer. Lease on store to the 1st of October, 1892. Address O W, care American Florist, Chicago.

FOR SALE—At the low figure of $2000, a well established florist business located in the heart of the city of Portland, Oregon, containing 4,500 square feet of glass, well stocked, and dwelling house, with store. Rent $30 per month. For further particulars write to P. HEFTY, Portland, Oregon.

FOR RENT,

ON ACCOUNT OF BAD HEALTH.

Ten greenhouses with stock. This is one of the best places in the United States for shipping purposes. You can ship plants all through the South in Jan and Feb'y in open boxes, and that is a great advantage to a florist. You can establish a very large shipping trade from here south, as it is a great point to ship cut roses, as a man can ship all the roses he raises to Mississippi, Louisiana and Texas, and all other principal cities. There is one drawback to shipping roses from the North here—it is too far. This place has a large local trade and has been established since 1868, and is all heated by low pressure steam. We will be ready to rent by the 1st of June—with or without stock—and that is plenty time to plant your roses. Those that are planted in July produce more roses for the holidays than any other time. This is a good chance for a man to get a big start on a little money. For further information, apply to **H. MOORE, 54 Beal St., Memphis, Tenn.**

Special Attention.

First Importation of the Season of 100,000 pounds of

CYCAS REVOLUTA,

in sizes from 6 inches to 6 feet, **guaranteed to be the only TRUE LONG-LEAVED VARIETY**, which for beauty in foliage is far excellent to any of its kind; fast becoming a most favored Palm, highly recommended by most leading nurserymen and florists.

By weight, fronds and roots cut off.

Price, not less than per 100 lbs. $10 00. Per 1000 lbs. $85.00, f. o. b.

Extra inducements on larger lots.

DELIVERED FROM JAN. 20th.

Send orders for **RHAPIS FLABELLIFORMIS.** Delivered from Feb. 1st.

Per 100 shoots, from $25.00 to $40.00.

Send for new Catalogue.

FELIX GONZALEZ & CO.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.

Mention American Florist.

Verbenas

FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30 00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	3.00	25.00
" " Rooted Cuttings	1.00	8 00
H. P Roses, 2 years old, dormant	10 00	
Fine stock, 3-inch, Forcing Roses	8 00	75 00
SPECIALTIES IN ROOTED CUTTINGS.		
Coleus, old standard and new fancy sorts	1 00	8 00
Feverfew (Little Gem), extra strong	2 00	15.00
Salvia splendens, extra strong	1.50	12 00
Moon Vine	2.40	
Ageratum, blue and white	1 25	10.00
Achyranthes Emersonii, etc	1 00	
Heliotrope, light and dark—no rust	1.50	12.00

WOOD BROTHERS,

FISHKILL, N. Y

Mention American Florist.

HEADQUARTERS

— IN THE —

UNITED STATES

— FOR —

ELLIOTT'S NEW DWARF CALLA

LITTLE GEM.

(Not "THE GEM.")

For this new variety of Richardia (calla) Æthiopica we were awarded a first-class certificate of merit by the Mass. Horticultural Society Jan. 16, 1892.

Price upon application to

J. TAILBY & SON,

Linden Street, WELLESLEY, MASS.

Mention American Florist.

CARNATIONS

Rooted Cuttings, 50,000 now ready of the following varieties:

Silver Spray, Hinze's White, Mrs. Fisher, Jeannette, Portia, Grace Wilder, Fred Creighton, Anna Webb, and Century,
$1.00 per 100; $10.00 per 1000.

Lizzie McGowan, Hector and Florence, $2.50 per 100, American Flag, $2.00 per 100 Orange Blossom, $3 00 per 100. Ready Feb. 1st.

Fuchsias, finest varieties	$ 1 50 per 100
Heliotrope	1.00 "
Ageratum dwarf white and blue	1.00 "
Petunias dbl. white and variegated	2 00 "
Bouvardia double pink and white, stock plants	10.00 "
Pansies from seed bed, extra fine	5 00 per 1000
Daisies	3.00 "
2000 field grown Jack Roses	10.00 per 100

Cash with order. 10 cts. per 100 extra when ordered shipped by mail.

JAMES HORAN, Florist,
BRIDGEPORT, CONN.
Mention American Florist.

CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "**DORINDA,**" a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

R. T. LOMBARD,
WAYLAND, MASS.
Please mention American Florist.

Carnation Cuttings.
NEW AND STANDARD SORTS.

SEND FOR PRICE LIST.

WM. SWAYNE,
P. O. Box 226. **KENNETT SQUARE, PA.**

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN,** besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

You can save dollars by printing your spring trade list in the AMERICAN FLORIST.

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
SMILAX, 2½ inch pots	$1.50	$12.00
CHRYSANTHEMUMS, 5-inch pots	8.00	
CHRYSANTHEMUMS, large stock plants in variety	20.00	

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Wm. F Dreer, magnificent fringed rose pink; Nellie Lewis, light pink streaked with darker hue; $3 00 per 100; $25.00 per 1000.

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Winner of the Ladenburg Cup for best pink

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE NUMBER of fires reported of late is a fair warning to all in the trade to take extraordinary precautions. Look carefully over your place for any dangerous points, and make assurance doubly sure by removing any possible source of danger. A few bricks and a few hour's work rightly placed may save you a very serious loss. Take care that the laconic legend, "defective flue and adjoining woodwork," does not form part of a report announcing the destruction of your place. An ounce of prevention is worth a vast amount of cure.

WE ACKNOWLEDGE the receipt from Mr. J. E. Felthousen, Schenectady, N. Y., of photographs of his coleus and geranium houses, that show his stock to be in very fine condition.

A. BLANC says: "Princes may die and others take their place, but where is there another Robert Craig?"

Catalogues Received.

L. L. May & Co., St. Paul, seeds, plants and bulbs; Joseph Breck & Sons, Boston, seeds and plants; Webster Bros., Hamilton, Ont., plants; D. M. Ferry & Co., Detroit, seeds; S. Humfeld, Cochran, Ind., plants; The Storrs & Harrison Co., Painesville, O., seeds, plants and nursery stock; Wm. Tricker, Dongan Hills, N. Y., aquatics, chrysanthemums, etc.; Reasoner Bros., Oneco, Fla., plants; A. M. Herr, Lancaster, Pa., carnations, etc.; Ch. Molin, Lyon, France, seeds; Henry Schroeder, Sigourney, Ia., nursery stock; Luther Burbank, Santa Rosa, Cal., bulbs and plants; Benj. Hammond, Fishkill-on-Hudson, N. Y., insecticides and fungicides; John N. May, Summit, N. J., roses; John Peed & Sons, London, Eng., seeds.

Western Horticultural Societies.

ANTHONY, KAS.—A movement is on foot to reorganize the County Hort. Society.

SOUTH WAYNE, WIS.—The Wayne Hort. Society held its annual meeting here Jan. 12.

HAMILTON, ILL.—The annual meeting of the Warsaw Hort. Society was held here Jan. 9.

MCGREGOR, IA.—A movement is on foot here for the organization of a County Hort. Society.

BOULDER, COLO.—The Boulder County Hort. Society held a very interesting meeting Jan. 11.

LOS ANGELES, CAL.—The Association of Hort. Commissioners of Southern California met here Jan. 13.

PORTLAND, OREGON.—The Seventh Annual session of the Oregon State Hort. Society was held here Jan. 12 to 14.

SAN FRANCISCO.—The forthcoming annual report of the California State Board of Horticulture will contain over 500 pages.

SALEM, ILL.—At the meeting of the Marion County Hort. Society Jan. 9 a committee was appointed to arrange for a horticultural display at the World's Fair.

NEBRASKA CITY, NEB.—The Hort. Society has recommended J. H. Masters of this city for Supt. of the Hort. Dept. of the Nebraska display at the World's Fair.

SACRAMENTO, CAL.—The Sutter County Hort. Society is taking steps in accordance with a proposition by Gen. N. P. Chipman to organize a World's Fair Association for the Upper Sacramento Valley.

LANSING, MICH.—At the session of the Michigan manufacturers of Fruit Goods Jan. 13 a resolution was adopted making the association an annex of the State Hort. Society. A committee of 10 was appointed to prepare a World's Fair exhibit.

EMPORIA, KANS.—At the annual meeting of the Lyon County Horticultural Society the following officers were elected for the ensuing year: President, W. T. Walters; Vice President, James H. Doile, Secretary, Robert Milliken; Treasurer, A. A. Hickox.

SHIOCTON, WIS.—A meeting was held here Jan. 15 for the purpose of organizing a horticultural association. Officers were elected as follows: President, D. M. Torrey; vice president, Mrs. Eben E. Rexford; secretary, W. D. Boynton; treasurer, C. H. Anson.

SPRINGFIELD, ILL.—The Springfield Hort. Society was organized here recently, with officers as follows: President, W. S. Dyer, of Springfield; Vice President, James Ralston, of Farmingdale; Treasurer, John Amos, of Springfield. There were 21 charter members. Meetings will be held monthly.

DES MOINES, IA.—The twenty-sixth annual meeting of the Iowa State Hort. Society was held in the horticultural rooms of the capitol Jan. 19 to 21. The officers elect are: President, A. F. Collman, Corning; Vice-President, John C. Ferris, Hampton; Secretary, Prof. J. L. Budd, Ames; Treasurer, Silas Wilson, Atlantic.

SHELBY, MICH.—The Oceana County Hort. Society at its annual meeting elected the following officers: President, A. Adams, Shelby; Vice President, W. D. Markham, Hart; Secretary, B. Gibhart, Hart; Treasurer, W. H. Barry, Shelby. There was a large attendance and a good interest manifested throughout. Preparations are under way to show up Oceana County's fruit production at the World's Fair.

OWATONNA, MINN.—About 300 delegates were in attendance at the 25th annual meeting of the Minnesota State Hort. Society held here Jan. 20 to 23. A committee was appointed to carry on the agitation for the establishment of a national park in Minnesota, to embrace several million acres, for the preservation of the forests. The society will ask for a state appropriation of $15,000 to represent Minnesota horticulture at the World's Fair.

BENTON HARBOR, MICH.—At the last meeting of the Hort. Society R. Morrill read a paper on the subject: "How can we as horticulturists derive the greatest benefit from the Columbian Exposition"? The paper was elaborate and interesting and was discussed at some length. The following officers were elected for the ensuing year: President, R. Morrill; Vice Presidents, W. A. Smith, R. C. Thayer, W. L. Kane, S. G. Antisdale and L. W. Ruth; Secretary and Treasurer, A. J. Knisely.

DENVER, COLO.—At the annual meeting of the Colorado State Bureau of Horticulture held Jan. 15 and 16, the officers elected for the ensuing year were President, W. B. Felton of Canon City; vice president, W. B. Osborn of Loveland; secretary, Alexander Shaw of Denver; treasurer, John Tobias of Denver; directors — David Brothers, Denver, W. S. Coburn, Paonia, and J. E. Reynolds, Husted. A resolution emphasizing the necessity of establishing large reservations of timber land for the purpose of water conservation was adopted.

LINCOLN, NEB.—The annual winter meeting of the Nebraska State Hort. Society was held here Jan. 12 to 15. President Taylor in his annual report stated that in his opinion there has never been a fair adjustment in the premium list of the proportionate amount of money which should be paid to the florists in the different departments for their displays at the State Fair, and recommended that the list and rules and regulations be given a thorough overhauling. The World's Fair committee reported that they would endeavor to secure a supplementary appropriation of $50,000 from the state. Officers for the ensuing year were elected as follows: Pres., E. F. Stephens, Crete; 1st V. P., D. V. Reed, Blue Springs; 2nd V. P., O. F. Smith, Ansley; Secretary, F. W. Taylor, Lincoln; Treasurer, Peter Younger Jr., Geneva; Board of Directors, W. J. Hesser, Plattsmouth; D. C. Mosher, Lincoln; J. M. Russell, Wymore.

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Cut Flowers.

BOSTON. Feb. 2.	
Roses, Bon Silene	3 00@ 4.00
" Gontier, Niphetos	4 00@ 6 00
" Perle, Sunset	6 00@ 8.00
" Mermets, Brides	8 00@10 00
" La France	10 00@12.00
Carnations, short	1.25@ 1 50
" long	2 00@ 2.50
Harrisii, Callas	16.00
Violets	1 00@ 1 25
Valley, Romans, Tulips	4.00
Daffodils	6.00
Marguerites	1.50
Nasturtiums	1.00
Freesia	2.00
Smilax	12.00
Adiantums	1.50

NEW YORK. Feb. 2.	
Roses, Gontiers, Perles	4 00@ 6.00
" Mermets, Brides	8 00@10.00
" Cusins, Watteviles	8 00@10.00
" La France	8.00@15 00
" Beauties	50.00@100 00
" Niphetos	4.00@ 5.00
Valley	2 00@ 4.00
Tulips	2.00@ 3 00
Daffodils	4.00@ 6 00
Narcissus, small	2.00
Callas	10 00@1.200
Harrisii	12 00@15.00
Carnations, Violets	1.50@ 2 00
Freesia	2.00
Cattleyas	50.00
Smilax	12 00
Adiantums	1 50

PHILADELPHIA. Feb. 2.	
Roses, Brunners	60 00
" Laings, Beauties	25.00@55 00
" La France, Albany	10.00
" Mermets, Brides, Bennetts	8.00
" Cusins, Watteville	6 00@ 8.00
" Perles, Niphetos	4 00@ 5 00
Carnations	1.50
Mignonette, Romans	2 00@ 4.00
Freesia	1 50@ 2 00
Tulips	5 00
Violets	1.00
Daffodils	6 00
Valley	4 00@ 5.00
Smilax	15.00

CHICAGO. Feb 2.	
Roses, Am. Beauties	15 00@25 00
" Mermets, La France	5 00@ 8 00
" Albany, Bride, Waban	6 00@ 8.00
" Bennetts, Dukes	5 00@ 8.00
" Perle, Niphetos	4 00@ 6 00
" Gontiers	3 00@ 6.00
" Bon Silenes	3.00
Carnations, short	.75@ 1.50
" long	1 50@ 2.00
" " fancy	3 00
Romans, Narcissus, Valley	3 00@ 5.00
Callas, Harrisii	12 50@15 00
Violets	1 00@ 1.75
Smilax	15 00@20 00
Adiantums	1 25@ 1 50
Tulips	3 00@ 5 00
Daffodils	4 00@ 6.00
Freesia	3.00

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Successors to WM. J. STEWART,
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J. HORACE McFARLAND, Harrisburg, Pa.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

T. W. EMERSON & Co., of Boston, Mass., Seed and Implement Dealers, have made an assignment.

MAIL TRADE in Philadelphia and New York is reported to be a week or more behind last year in volume.

THE Dingee Conard Co. have a fine four-page illustrated reading notice advertisement in the February *Century*.

A. W. LIVINGSTON'S SONS suffered serious loss of catalogues by fire in their bindery shop on the morning of January 26.

THE FIRM of E. L. Coy & Son has been dissolved, C. Herbert Coy retiring to engage in other business in Colorado. Edward L. Coy will continue in his own name.

AN EASTERN philosopher speaking of the introductory remarks in various seed catalogues says: "Mr. Shumway gets down from his seat and walks among the people."

Dwarf Budded Roses

The stock offered this season is of the same quality distributed by us last year and includes all the leading and popular varieties. Parties contemplating stocking up for spring sales will do well to place their orders at once, as plants are now dormant and can be shipped without any soil at reduced Express and Freight rates.

Alfred Colomb, Anna de Diesbach, Baron de Bonstettin, Baroness Rothschild, Fisher Holmes, Gen. Jacqueminot, La France, Mabel Morrison, Magna Charta, Merveille de Lyon, Mons. Boncenne, Paul Neyron, Prince Camille de Rohan, White Baroness, Queen of Queens, Ulrich Brunner, Mme. Gabriel Luizet,

$12 per 100; $110 per 1000.

A. K. Williams, Boule de Niege, Countess of Oxford, Coquette des Alps, Chas. Lefebvre, Camille Bernardin, Duke of Albany, Eugene Furst, Earl of Dufferin, Gloire de Dijon, John Hopper, Jean Liabaud, Jules Margottin, Louis Van Houtte, Mme. Marie Finger, Marie Bauman, Mme. Victor Verdier, Mme. Eugene Verdier,

$15 per 100; $130 per 1000.

A fine lot of MARECHAL NIEL ROSES with canes 10 to 12 feet long, pot grown, very strong, $1.00 each.

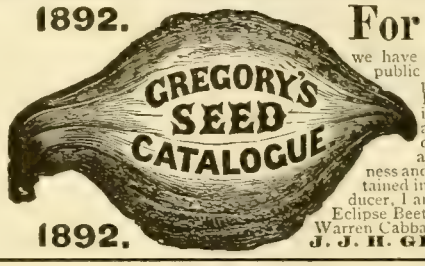
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CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts.
ROSES, 8 leading sorts.
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COLEUS, 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

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THE HUGH is like

An Unbleached Mermet;
ONLY BETTER.

CALL ON OR ADDRESS
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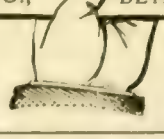
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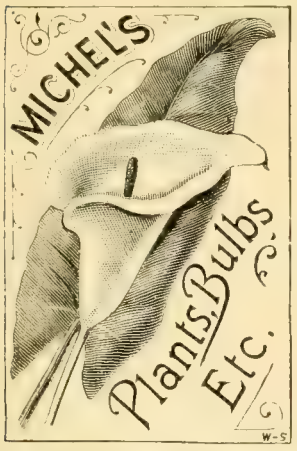
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Verbenas, select sorts	2.50	20 00
Geraniums, the cream of singles and doubles	3 00	30 00
Fuchsias, finest bloomers, single and double, assorted	3.00	30.00
Pansies, an ideal strain	1.00	9 00
Moon Flower, large flowering	4.00	35.00
Manettia Bicolor	5.00	
Adiantum Hendersonii, hardiest of all	3 50	30.00
Agapanthus umbellatus, white, 2-inch, strong	4 00	35 00
Bouvardias, sgl. and dbl., 6 sorts	4 00	35.00
Roses, Teas and Hybrids, 200,000 ready. See Wholesale Price List.		

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Prices on application. In submitting list, always state quantity of each variety wanted. Catalogue on application.
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This is a good thing for cutting. Will flower first season from seed if sown early.
Fresh Seed Crop of 1891.
Trade pkts., 50c. and $1.00.

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Seed Growers, Importers and Dealers.

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Gives Trade Prices on prime Spring stock of
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NOW READY.
Special attention paid to supplying the wholesale trade.
Single thousand, $1.25; in lots of five thousand and upwards, C. O. D., $1.00 per thousand.
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The Violet Disease.

I see by the Italian horticultural papers that the violet disease is very prevalent there, too, on violets grown in the open field (no glass) showing conclusively that some element necessary to the growth of the plants is gradually being exhausted from the soil.

The Italians counteract the disease somewhat by the use of the Bordeaux mixture, for which may be substituted the enclosed recipe for a cheaper solution of copper salts, which I cut from the *Massachusetts Ploughman*.

T. Greiner, the well known fruit grower, says: "The Bordeaux mixture, I believe, will soon be played out. It has various objections. First, it is expensive—much more so than simpler solutions. It is troublesome to prepare and troublesome to apply, as it has to be strained through a fine sieve, which is often quite a task, and even then it is apt to clog the spraying nozzle. Next, you get all soiled with the white, waxy stuff, and if it gets on fruit it sticks and perhaps causes more trouble. Why should we apply it at all when we have in the solution of copper carbonate in ammonia a liquid that is almost as effective in the prevention of plant diseases, much cheaper, and much more readily prepared and applied. The concentrated solution can even be bought prepared and with the required quantity of water added, is then ready for the spray. It goes under the name of "copperdine," costing only $1 per gallon, which quantity is sufficient to make 100 gallons of spraying liquid. At this cost we can afford to make two sprayings instead of one with the Bordeaux mixture, and then we save money."

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Named, 2½-inch pots	$ 3.00
Mixed, " "	2.00
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Petunia, double (fringed white)	1.50

Would exchange some for 2 year Jack, Clematis, or some of the new Carnations.

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A remarkable strain saved by an enthusiastic specialist, collected from **choice varieties only,** and matured under the sunny skies of California. The grower of this seed writes (under date of October 28th, 1891):

"In regard to the Chrysanthemums, I have about 2,500 seedlings in bloom and coming into bloom. I will try and send you some of my best varieties. I always grow them in a natural way without disbudding, as that is the best way to test the true value of a variety. I keep the very best for seed and destroy the balance. I have secured some beautiful varieties the past two years."

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Cobea Scandens.....per oz. 75c. Centaurea Candidissima, per oz. $2; per 1000 seeds, 50c.
Smilax Seed, per lb. $8 " 60c. " Gymnocarpa, " 50c. " " 30c.

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FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

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WATER LILIES

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The Lotus is hardy, but it is a good plan to start it under glass in March or April, planting the tubers in common wooden pails; afterward planting out, or shifting to large tubs.

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WATER LILIES, in all colors.

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NOW IS THE TIME TO SOW SEED.

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Half packets if desired. Send for new descriptive catalogue.

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HYDRANGEA THOMAS HOGG, from 2-in. pots, per 100, $3.00.

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List free on application.

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I see by the FLORIST that "Subscriber" wants to know how to distill perfume from flowers. I find the following a profitable way: Take Florence oil, salt and cotton batting, to be used in the following way: Soak the batting in the oil, place a layer in the bottom of a common glass fruit jar, then place the flowers, sprinkling with salt, and so on till jar is full. Then cork or seal tight and place in the sun for two weeks, then squeeze the oil from the batting and you have oil of roses or whatever kind of flowers you use; any kind of perfumed flowers will do. He can use his own judgment as to what kind to use. WM. WALKER.
Columbiaville, Mich.

American Carnation Society.

The first annual meeting of this society will be held at Buffalo, N. Y., on the 16th inst. Headquarters will be at the Tifft House. This meeting promises to be a most interesting one, and should be attended by every carnationist who possibly can.

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Can any of the readers of the AMERICAN FLORIST tell me what is the best liquid to use and when to use it to color hydrangeas blue? G. GEDULDIG.
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HARDY PLANTS BY THE MILLION.

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Caryota Blancoi, character leaves, 20 to 24-inch	5.00	
" urens, 2-inch pots	1.00	$ 5.00
Chamærops excelsa, 2 inch pots	.75	4.00
" humilis, 12 to 15 inches high	2 00	12.00
Cycas revoluta, 10 to 15 inches high	5 00	40.00
Latania borbonica, 10 to 12 inches high	1 00	8 00
" " 18 to 20 inches, character	2 50	20.00
Livistona Hoogendorpii, 10 to 12 inches, character	3 50	
" rotundifolia, 8 to 12 inches	3.00	
Martinezia caryotæfolia, 2½ inch pots	3 50	25 00
Oreodoxa regia, 2-inch pots, strong	1.00	8.00
" " 24 to 30-inch, character	2 25	16 00
" " 30 to 36-inch, character	3.00	25 00
Phœnix reclinata, from 2-inch pots	.75	5.00
" " 12 to 15-inch, strong	1 85	15 00
" dactylifera, strong, from 2-inch pots	1.00	8.00
" pumila, 12 to 15-inch very strong	3 00	25 00
" sylvestris, 12 to 15-inch, strong	2 50	20 00
" tenuis, from 2½-inch pots	1.00	8.00
Sabal Blackburniana, 2½-inch pots, strong	1.50	10.00
" " 12 to 15-inch, strong	2 50	16 00
" longipedunculata, 2½-inch pots, strong	1.00	8 00
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Special quotations given per 1000 or per 10,000.

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" Rivicoa, var angustifolia, Egg-fruit	3 50	
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Mangifera Indica, Mango	2.00	15 00
Melicocca bijuga, Spanish lime, Ginep	1.50	12.00
Musa paradisiaca var. sapientum, Banana	1 00	8.00
" " "Harts' choice" Banana	1.75	12.50
Persea gratissima, Avocado pear, strong	3.00	25 00
Psidium cattleyanum, Strawberry guava	1.00	8.00
" chinense, "Yellow or Commercial"	1.50	10.00
Harts' Tardiff orange, very fine, 3 to 3½ feet	3.00	25.00
" " " " " 3½ to 4 feet	3.75	30.00
" " " " " 4 to 6 feet	5 00	40.00
Loquat (Eriobotrya Japonica), 18 to 24-inch	1.25	10.00
" " " 12 to 18-inch	.75	5.00
Macadamia ternifolia, "Queensland nut"	7 50	

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Sweet Pomegranate, very healthy, 2½ to 3 feet	2.00	12 00
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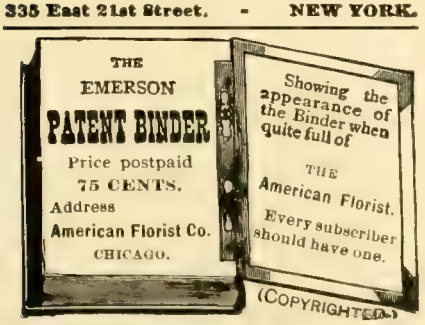
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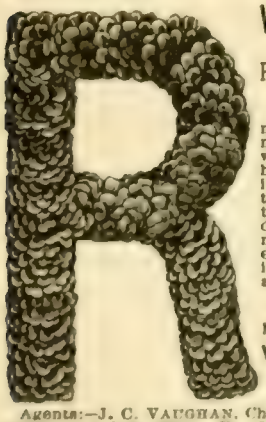
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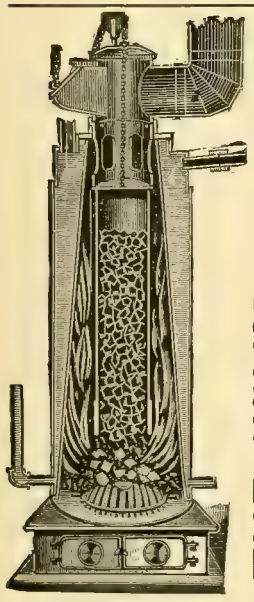
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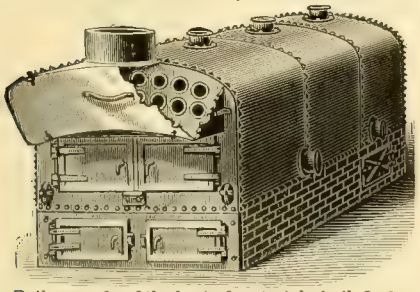
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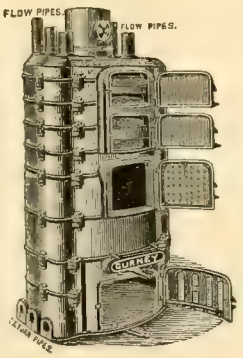


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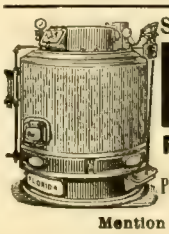
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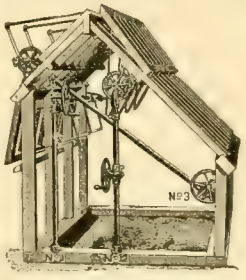
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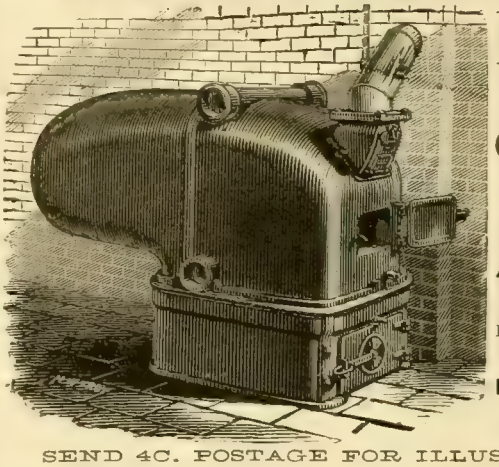
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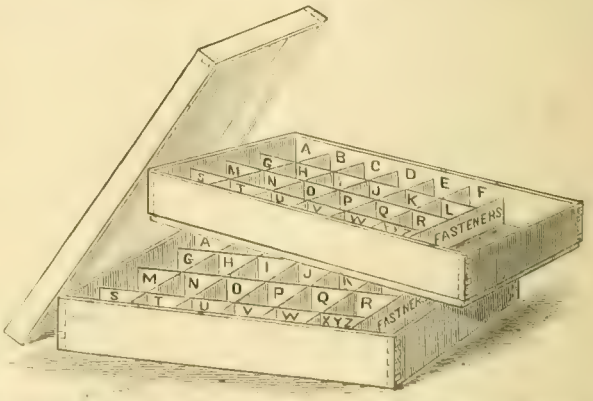
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Vol. VII. **CHICAGO AND NEW YORK, FEBRUARY 11, 1892.** **No. 193**

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THE AMERICAN FLORIST COMPANY.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

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FLORISTS' HAIL ASSOCIATION.
Insures greenhouses against damage by hail. JOHN G. ESLER, Secretary, Saddle River, N. J.

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FOUR extra pages this issue.

THE American Carnation Society holds its first annual meeting at Buffalo next week. All growers of carnations should attend.

Propagation of Plants.

SOME GENERAL CONSIDERATIONS.

[Delivered before the Gardeners' and Florists' Club of Boston, by Prof. R. M. Watson, Jr., of Bussey Institution of Harvard University.]

No argument is needed to convince the plant grower of the importance of this subject. In common practice the various operations are not difficult, nor does it take long to find a way to increase the stock of any new plant which may be introduced. Some plants, from the nature of their growth, are multiplied slowly; but given a subject of good habits, the quick-witted gardener will soon find a way to obtain a stock with astonishing rapidity. It is not the details of every-day work I propose to bring before you this evening, but rather to take up some of the general facts which pertain to the whole art.

There are two general methods of propagation,—by seeds and by buds, both natural, perhaps larger numbers of wild plants grow from seeds than from buds, but there are numerous cases where propagation by buds obtains without the intervention of man; e.g., the normal increase of the strawberry by runners, of the black-cap raspberry, by root tips, like the walking fern, not only propagating itself, but providing fresh soil for its subsistence; an example of reproduction and of adaptation. It would not be difficult to cite cases where all our artificial forms of propagation are found in nature; it is not fair to speak of one method as natural and another as unnatural. Propagation by seeds is sexual, by buds it is a-sexual; i.e., reproduction by the organs of vegetation is common to both fertile and sterile plants. The seed is a plant in embryo, formed by modes not unlike those which are found in the animal kingdom, and which, when subjected to the conditions necessary for germination—viz., warmth, moisture and oxygen—expands into the likeness of its progenitors. The bud, or bud producing material, is a part of the plant only, but if placed under the proper conditions it is capable, in most cases, of acquiring those organs which it lacks, and thereby becomes an individual which differs in no respect from the parent. To this last statement there are some exceptions, however, variegated plants present some peculiarities; variegation is not always transmitted by the parts of the plant used in propagation by the organs of vegetation. A root cutting of the variegated prickly comfrey will often give a wholly green leaved plant. The ivy-leaved geranium, L'Elegante, will revert to the type, if propagated by the leaves; a green leaved abutilon, if grafted on a variegated abutilon, will show variegation in its new growth. Bud variations or sports are not uncommon in cultivated plants; e. g., the rose and chrysanthemum. It is quite within bounds to suppose that occasionally they might occur on those parts of the stem which had been selected for cuttings. Something might be said still further in connection with propagation by grafting on the reciprocal influence of stock and scion, but perhaps it will be better to consider this later. While, however, it is true that, in most cases, buds, and parts of the plant capable of producing buds, will reproduce the parent exactly, this is not true in reproduction from seeds. There is always a tendency to vary among seedlings. This is taken advantage of by the gardener, either to obtain new varieties, or, by reducing the variation as much as possible by selection in fixing a variety, and thus obtaining what is called a race.

Certain forms of propagation, which, however, are not very practical, apply to many classes of plants, and might be considered almost universal if structural difficulties did not prevent; for instance, you can readily understand that all plants could be layered, were it not that certain herbaceous plants, like tulips and hyacinths, have no persistent stem, thus rendering it impossible, and that others, like some palms, would be destroyed in the operation; you might "swop" plants, there would be no increase here. More convenient methods have taken the plan of layering in modern gardening. It is astonishing that we still read so much in the European horticultural journals about layering carnations, when we know how easily we strike them from cuttings.

Propagation by seeds is by no means universal, even in the restricted sense in which layering might be considered as universal. There are plants which produce no seeds; others give seeds in limited quantities; they are handled with difficulty, and are hard to obtain. Most important plants produce seed which will not come true; they will not reproduce the parent; e. g., most apples, pears, etc. All this means that the propagator, the grower, has a choice in certain cases, in others he has none; that sometimes, his choice is determined by the nature of the plant and sometimes by the circumstances of the case. He cannot propagate Gen. Jacqueminot roses by seeds; they must be increased by bud. He has an option between grafting in one form or another, cuttings of growing or ripened wood, and layering. His preference will be determined by various points, whether he wants a single plant, a dozen or a thousand; whether he grows them under glass or in the open air; whether he has experience or is a novice.

Let us consider in detail the plants, or rather the classes of plants, which are propagated in these two general ways, by seeds and by buds, having in mind that we wish to extend our stock, and are not directly seeking to obtain new varieties. We have three large and

important classes of plants increased by seeds; viz., true species, fixed varieties or races, and good strains. The first—true species—includes native plants collected from all parts of the world and grown in our collections as we find them growing in nature, without any improvement except that which cultivation affords; our native oaks, elms and maples, palms and cycads, herbaceous plants or garden annuals, trees or shrubs, provided they have not been changed by the gardener's art. All these will come sufficiently true to the parent to enable us to be sure that we are growing what we are seeking. There is, however, with these plants a little variation. The best example I can give is one found in the results of the European nurserymen in growing for many years large numbers of their native plants in this way. Take, for instance, the great variety of the English oaks, the sycamore or Norway maples which are offered in the foreign catalogues. These are sports obtained from the seed beds, the gardener observing the variation from the type, culls them out and multiplies them by buds. If American plants had been increased by seeds in such quantities as European plants have been, we should doubtless have many interesting varieties which would probably be most useful in our plantations.

The second class of plants propagated by seed comprise those in which, by repeated sowing and careful selection, the important and desirable qualities have been fixed, so that they will be repeated in the offspring; i. e., come true. Examples are most abundant among our vegetables, garden annuals and biennials, and in some bedding and greenhouse plants, generally plants of short life or quick maturity, where the necessary process does not require too much time. It is said that Mr. Rivers, the famous English fruit grower, has, in the course of his experiments in obtaining new varieties of peaches, so fixed certain characteristics that some strains of seed could no longer be used for his purpose. In other words, he unintentionally made a race of new peach trees which would come true from seeds; such occurrences are uncommon in trees and shrubs, but could undoubtedly be obtained if the process was not such a lengthy undertaking.

In annual and biennial plants fixation is not difficult, and is well understood. An observant grower finds a sweet pea of a purer or different color, of better shape or earlier in flower; it is isolated as much as possible, and the seeds are carefully saved. On the second sowing several plants are found which show the same desirable qualities. The other plants are discarded. Seeds sown from the selected specimens, when sown the third year, will exhibit a still larger percentage of those marks by which the gardener was first attracted. This work is continued until all the seedlings are practically alike, then the race is fixed; we have a new plant which will come true from seeds.

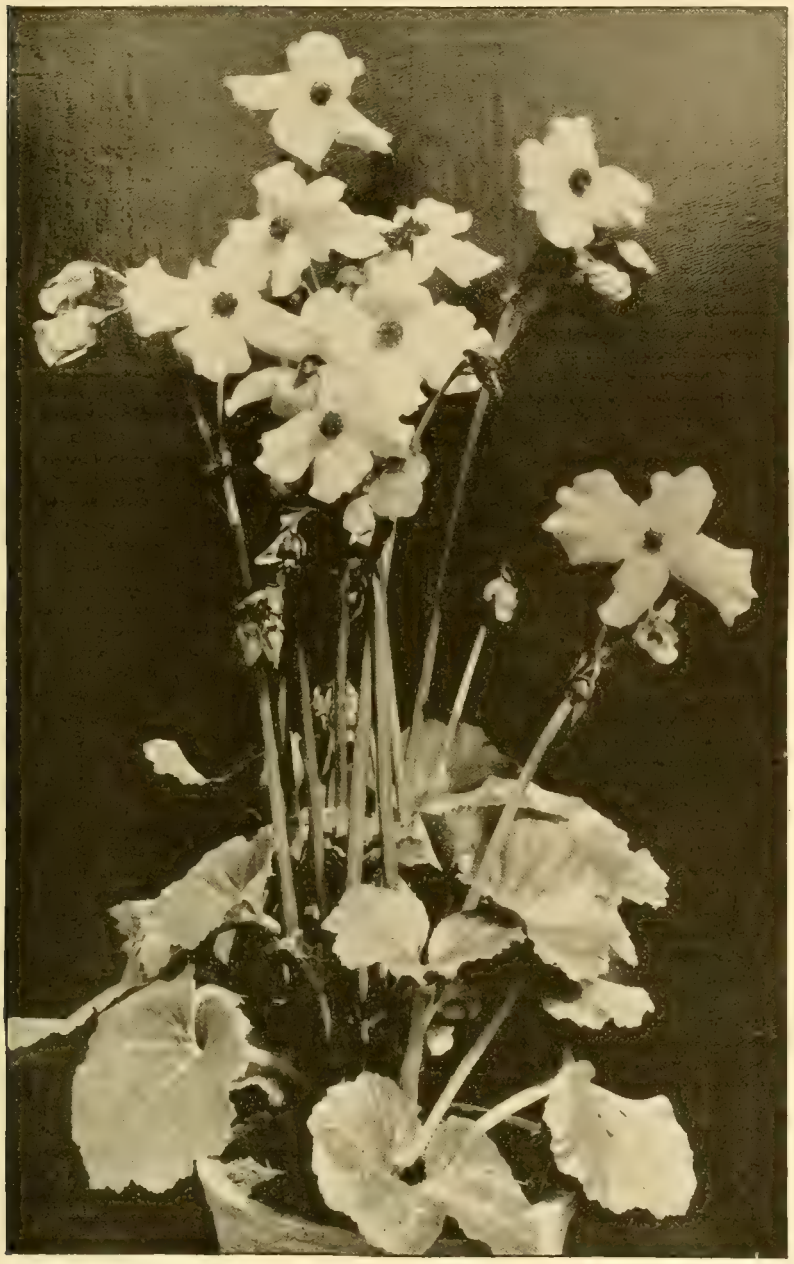
The third class of plants propagated by seeds is not separated from the second by any sharp or well defined line. We have here certain plants of which we say we have good strains; e. g., the true cineraria, calceolaria and cyclamen. We mean that they can be increased by seeds which will give not only good results, but that the offspring will be alike in many particulars. We expect a plant of good habit of growth, either tall or dwarf, with well formed and substantial foliage, and a flower of good shape and texture. There is variety in the color of the flowers. The tendency of modern gardening seems to be to change the strain into the race, and this is by no means undesirable. In the old days we propagated many plants by cuttings, at expense of time and room, which are now easily grown from seeds. This class is increasing in numbers, and will doubtless absorb many plants which are now handled in other ways. In the transition state, our verbenas, gloxinias, pansies and primroses may suffer, but the improvement seems to be in the right direction.

The classes of plants propagated by buds are readily defined. They are the plants which will not come true from seeds; plants like the banana, and pineapple, which produce no seeds, and plants like the willow, the seeds of which, although coming true, are handled with such difficulty that this form of cultivation is unprofitable. In these classes we find much more diversity in the details of handling than among those plants which are propagated by seeds. Bud propagation gives the gardener the best opportunities to exercise his skill and ingenuity in order that he may produce the best results at the least cost. Although large numbers of these plants, particularly those which can be produced from cuttings of the stem, either of growing or ripened wood, are handled with complete satisfaction, and present little or no difficulty in their management. There are many of which this is not true; for example, those propagated by grafting in some of its various forms. We have much to learn in regard to propagation by cuttings of the root, and perhaps in regard to propagation by cuttings of the leaf.

In propagation by seeds, few alterations are presented. We must provide the conditions necessary for germination; we sow small, slow growing or rare seeds under the glass, the large, common seeds of great vitality in the open air; we cover the one with the least possible quantity of soil; the other is planted deep. Sometimes we must know that seeds must be sowed when gathered, and if this is impossible, they must be kept moist until they can be planted, as when maple seeds gathered in October are stratified with sand until the ground is ready in April. We must duly regard the differences in time required in germination, and always be ready to give great care and attention to the young seedlings. These details are limited, and comparatively little can be done to improve our present methods. Whereas this is true of sexual reproduction, there are no such limitations in propagation by buds. A much longer range of subjects presents many interesting problems, to the solution of which we must look for better and cheaper plants.

We ourselves have seen many improvements in methods of propagation. I have already mentioned a case where cuttings have wholly supplanted layers. We see the old modes of layering and inarching disappearing with and superseded by, cheaper ways of grafting and by cuttings. The late Mr. Peter Henderson showed that bottom heat, a close frame, and cuttings cut to a bud or heel were not necessary for rooting many plants used in large quantities. The labor so saved is enormous. The best tribute to the author of an improvement of this kind is found in the number of his followers. It seems as if the number of plants propagated by cuttings might be extended. In this connection, the question of which is best, a plant on its own roots or a grafted plant, comes forward, and brings up the whole subject of grafting in its many forms, presenting interesting and curious problems.

Here the details are not simple, as in propagation by seeds. Many questions arise which cannot readily be answered without field experiments on an extended scale, and continued for many years with the utmost care. It is easy to talk about the deterioration of varieties which have been propagated for years by buds. We know in our own experience of such cases, and perhaps it is easier to say that such and such a plant is "run out" than it is to confess that we can no longer get it in good condition. We may be surprised to find it thriving in another garden, or in some other part of the country, and so begin to think that other causes than the method of propagation are at fault. Many of the most important points seem to hinge on the question of grafted plants as against plants on their own roots, and an easy answer could be given, which would apply in many cases. A plant on its own roots is certainly better than a poorly worked plant. If the manipulation is defective, if stock and scion are not closely related, if even then there is a decided difference in the rates of growth, the grafted plant would be discarded. On the other hand, we all know plenty of grafted plants which have given entirely satisfactory results for long periods. Are these points of sufficient importance to warrant any expensive experiments? As bearing upon this, the question comes up, how shall we get plants on their own roots, provided this is found to be the better way of growing them? I doubt if we should go back to layers. Many could doubtless be increased by cuttings of half-ripened wood grown under glass, perhaps by cuttings of this same wood grown in the open air; probably grafting would still be practised, but in some such way that the scion would ultimately be furnished with roots of its own; this is by no means uncommon now. We could easily improve many of our present methods of working by paying more attention to the choice of stock, looking for closely related plants and those of vigorous but not too vigorous habits; the element of hardiness in stock is certainly to be considered. I would like to make a suggestion here in regard to this matter of grafting, and that is, in relation to the reciprocal influence of stock and scion. It is unnecessary to again speak of the well known case where variegation is transmitted, as in the abutilon, either way; is it not possible that a good deal of the talk which is made about changes in the nature of the grafted plant is due entirely to a physical or mechanical cause; i. e., wholly outside of any constitutional change in the plant? The example of pear worked on quince is a case in point; the rate of growth in the pear is greater than in the quince. Why does not this difference operate to form a constriction of the same nature as girdling, not so quick in its most marked result, viz. killing, but fatal in the end unless the scion gets roots of its own. This would account in a measure, for the improvements we obtain in higher color, size and flavor, while the imperfect union would account for precocity, dwarfed growth and short duration. Sometimes it is desirable to obtain what we call dwarfs by grafting. Is it not possible to find stocks which will give such results without shortening the lives of the plants so obtained? If one could do this we should have an excellent example to illustrate the influence of stock on scion. We see a pear grafted on pear



BEGONIA BAUMANNI.

lasting a life time, but worked on quince we have a short-lived tree. We are not eager to set out grafted plants unless we know something about them in advance. Certain facts which we do know about these matters tend at times to shake our confidence in regard to others about which we ought to be reasonably sure. Experiments could be undertaken which would easily settle them.

Almost all the work accomplished in this direction has been done by men who have been doing something else at the same time, by gardeners who have had their crops to grow and their living to earn. It is not unreasonable to suppose that in the near future we can look for a satisfactory solution of some of the problems in regard to propagation of plants, to men who are, in a way, trained for the purpose. The government makes large appropriations for the State Experiment Stations all over the country. It seems as if from these stations we ought, in time, to get important results, for here there is not only experience in plant growing, but also experience in observing and in drawing correct conclusions from observations. In the meantime, every little helps, and, by such gatherings as the present, our immediate fund of information is likely to be increased.

Begonia Baumanni.

We present herewith an illustration of this new sweet scented tuberous begonia, from which so much is expected. It is anticipated that this will not only be a very popular plant, but that in time the hybridizer will be able to make it the parent of a race of sweet scented sorts. The variety illustrated was discovered in Bolivia. The flowers are bright rose in color. A complete description appeared on page 442 of our issue of Dec. 31 last.

The Advantages of a Florist Growing Specialties.

BY A. M. HERR.

[*Read before the February meeting of the Florists' Club of Philadelphia.*]

MR. PRESIDENT AND GENTLEMEN:—This is a subject that should be carefully weighed on each side by anyone contemplating going into the growing of specialties and would require a great deal more time than I have been able to devote to it to do it justice. I will give a few of the most prominent reasons or advantages and also a few of the disadvantages and hope the members will help to throw a little more light on the subject.

It is an open question whether it is a question of the advantages of growing specialties; is it not more an actual necessity? We Americans are constantly wanting the best of everything; very often that is not good enough, so to cater to this taste is it not necessary that we devote our whole time and attention to one or two particular plants or flowers and get them up in such shape that they will meet the demands of the market?

To make a success of growing specialties it is necessary to follow the scriptural maxim in regard to the straight and narrow way, turning neither to the right or the left, but keeping steadily working our way to that goal perfection. It is doubtful if we will ever reach perfection, in fact it is very doubtful if any of us could define the word perfection in flowers. Within my own recollection there have been some wonderful and one might almost say some apparently impossible improvements in the rose, the chrysanthemum and in the latest rival for honors, the carnation. Take the carnation as an instance; there has been an ideal set up and all hybridizers and growers are trying to reach it, when it is reached there will be a still higher ideal set and so we can go on indefinitely, never reaching the end unless as some people think we will perfect ourselves in eternity in the line of thought or labors we are occupied with on this mother earth of ours.

It is this continual striving for improvement that makes the growing of specialties a necessity, for no one who is growing a variety of plants can give the necessary attention to getting the best results from any one of his plants without neglecting in some way part of his other stock. It is true sometimes the mixed grower will carry off the honors on a certain line of plants in competition with the grower who has made a specialty of that same line, but these instances are rare and we generally find that the winning plant or flower was the especial pet of the grower to the neglect of others, or perhaps his soil and location may have been so especially adapted to the wants of that plant that they grew to perfection without any special care or attention; in this latter case the best thing for the grower to do would be to drop all other stock and turn his time and attention to this one plant and thereby increase his profits perhaps tenfold.

Another advantage of growing specialties is the ability to concentrate your mind more on the plant or plants you are growing and thus you will often notice and act on many little points that would escape the attention of the mixed grower entirely. It is often these little points combined that help to make success. The practiced grower in one line, as roses or carnations, will in walking through a house notice little points that one who has not his mind constantly on the one thing will not see even if he looks for them. This is one of the really important

advantages, although rather small looking taken by itself.

Another is the opportunity offered (especially if you are just starting your plant) to plan and build so as to meet the needs of what you want to grow, and everything from the boiler house to the office can be so arranged as to save time, labor and patience. There is no reason why a man, and especially if he is going to grow only one or two sorts, can not have as well arranged a plant as any manufacturing establishment. Again you have the choice of location and can go where the plants you want to grow are naturally at home, that is where there is soil that is adapted to the growing of them, of course bearing well in mind one thing, the distance to nearest shipping point.

There can be also quite a saving in the labor on such a place over where there is a general assortment of plants grown, it being easier to train the laborers into such a routine of work that will make the place run itself almost. Giving a man a regular routine of work he becomes so accustomed to it that a mistake is seldom made and he also is more likely to become an adept at the work than if continually moving from one thing to another, as is necessarily the case where a large variety of stuff is grown.

Another great advantage is the ability to go into the market and buy your supplies in large quantities; you can get the bottom market price on everything where the buyer of small quantities has to pay the highest market rates.

The advantages from these points will not run up into the thousands, but they will make quite a difference in the total of the expense account at the end of the season. The day is fast coming if it is not here already when competition will make it necessary to watch carefully every expenditure and at the same time raise the standard of our products to such a point that they will find a ready market at a remunerative figure in competition with other growers. This may not be a particularly pleasant picture to contemplate, but it is a fact that we will have to acknowledge and make our plans accordingly.

The growing of specialties will of course be confined principally to wholesale growers, as it would hardly be advisable for a retail grower to run into only one or two plants, although I have seen this done with an apparent show of success in a small sized town. It might and no doubt would be profitable in the larger cities to make a specialty of one or two plants, grow them to perfection and find a good market for them and at fair prices. But in a town the size of Lancaster the market for one or two varieties of plants would not be large enough to warrant anyone going into the specialty business, unless he has a good wholesale outlet. Here another question comes in, whether it pays to run a wholesale and a retail business together. The only way it possibly can is to grow specialties and then I have my doubts about it. One or the other is bound to suffer and it makes unpleasantness as well as loss all through the season. Anyone now doing a business both wholesale and retail will if they keep an accurate account of the expenses and returns of each soon find that their profits will be considerably larger if one or the other is dropped. I can not offer any comparison as to the difference of the profits between a wholesale and a retail trade, but where there is a good retail stand I would as a looker on judge that the retailer was the better off of the two.

My own retail business was very short lived, as my situation was not a good one for that business. The first season I bought some roses from our worthy president, attempted to grow them, carnations, smilax, etc., and make money off my native town; the result was that I did not quite starve, but Mr. Craig came very near not getting the money for those roses. The carnations grew, the other plants attempted to grow, but only grew ashamed of themselves and died. Naturally the next season I grew more carnations and so every season I have dropped one or two varieties until now I have nothing but carnations. The past few years by very hard labor, long days and strict attention to my specialty I have made a little money. Had I at once gone into carnations alone I might have had considerable more, as in a review of my time in the trade (not a long one) I see some pretty heavy losses that might have been saved if I had been giving my time and attention to one instead of to one hundred things. I give this sort of biographical sketch merely to show that in my case at least it was an advantage, or rather a necessity, to go into the growing of specialties. I do not know whether specialties is the proper word, it would better be specialty, and not only specialty, but only a few varieties of that specialty. It has been my experience that it will pay better instead of growing twenty to forty varieties of carnations to grow only the best of each color or the one that gives the best results on your soil, and grow it well, than to plant four to ten of each color and expect them all to do well. There is as much difference between the likes and dislikes of one carnation and another as between different varieties of plants and it will pay any grower to study and carefully note those that seem best adapted to his soil and location and pay attention to them only. Unless I am very much mistaken somewhere there will be more money in your pocket for the convention next summer than if you were to grow the large number; of course in establishments carrying out this idea there would have to be one or two test houses to test the new sorts as they came out and pick the cream from them. If it were not for the demand for the variety of color I do not know but what it would be a good idea to grow only one variety; it could be grown to so much better advantage that the profits would be considerably larger and the expense considerably smaller.

There is, however, this drawback to the growing of specialties: If through any unforseen misfortune or some unexpected perversity of nature there should be a failure of the crop there would be nothing to fall back on to help one over the season. In a mixed place if one thing fails there are enough others to help out on the loss.

It would be folly for anyone to start out with the idea of growing specialties without first assuring himself that the soil and location will be adapted to it. I had a visitor here to-day from a section in which he said it was impossible to grow roses without getting soil shipped there from other sections. It would be a waste of time and money as well as of energy to attempt the growing of roses as a specialty in such a locality in competition with sections where they naturally do well.

Summing the whole together it will always pay better to grow specialties when growing for wholesale trade. But it is well to remember that all is not gold that glitters. It may sound like the jingle of silver or the rustle of greenbacks to hear that a certain man has sold so many thousand of a certain variety, but often back of that is a loss on some other enough to considerably reduce the receipts through the run on the variety in demand. This is a subject that will become more prominent every year and I hope some one more able than I will give us a few pointers.

Employer and Employed.

BY JOHN N. MAY.

[*Read before the New York Florists' Club Feb. 8.*]

Why your committee on essays should select me to deal with this subject is somewhat of a conundrum to me, and will, I fear, result in a disappointment to the members of this club generally, for the very reason that I cannot speak intelligently of any branch of this subject except so far as relates to the growers of plants and flowers only for wholesale, as it is many years since I had anything to do with any other kind of employes or have in any way been interested in studying their particular position, because I find my time fully occupied in looking after my own business. Furthermore I am a little at a loss to understand in what way or from what particular standpoint I am supposed to treat the subject, and as the notice—six days—was too short to admit of correspondence relative to the subject, I will in the following give my plain, unvarnished ideas on both sides and leave the members at full liberty to criticise what I may say, in the hope that some suggestions may result from the same whereby both sides may be mutually benefitted.

As I interpret the meaning of the request, namely, "Proper attitude of Employers to Employes," it is that I am supposed to tell employers how they can get more work out of their employes and then advise the other side how they can get their wages for less work, or something of similar nature; rather a hard nut to crack, I admit, and I fear some of both sides or perhaps all may have a desire to crack my nut for the advice. But the employer should, in the first place, select the best kind of help the market affords. I prefer active, intelligent, honest, trustworthy and sober men and boys, pay them a fair wage, according to their ability, and, if they are inclined to idle the time away, get rid of them as soon as possible and put a more conscientious one in the place. Always insist upon strict attention to their duties during working hours; to start work punctually at the regular hours, and then, having gotten a fair day's work out of the employe during legitimate working hours, let them quit work as punctually on time as they have to begin it; this, from long experience, I have found the best means of keeping a place in good running order.

If it should be necessary—as it often is in our business for a part of the help at least—to commence work somewhat earlier than the regular time, always give them clearly to understand that such is the case when engaging them, and generally it is much better to pay them some little additional wages for such services; but when it is absolutely necessary to have extra work done in the evening my advice is to pay them so much per hour extra for such work; but avoid the extra hours all you possibly can, thereby giving them some chance of recreation, but avoid giving them the opportunity to "get even" with you, as I have often heard it expressed. This relates to where they are called upon frequently to work extra hours at night without pay. Such men

will often be found late in the morning and if spoken to will have a very ready excuse that they "more than made this time good," and he will also be very apt to slight much of his work during the day to husband his strength for night work. Furthermore he will often want half a day to play base ball or some other excuse. Personally, from long experience, I do not favor giving any half day Saturdays for them to get their fingers smashed or such like pleasures, because it will take them all the next week to cure the same at the expense of my time and work. But, if they want to have a holiday, let them have it all at once and for the rest of the time insist upon their attending to their duties regularly from Monday morning until Saturday night, for plants and flowers need attention all the time. But have all the work done up by Saturday night, thereby relieving as many as possible in turn of Sunday work.

Where men are furnished with board on the place be sure that the food is abundant and good and their sleeping quarters clean and comfortable. Provide the means of recreation on the place, if possible, such as a few books, periodicals, a paper or two, etc. Treat them kindly; and an occasional chat for a time in the evening will do much to get them interested in the welfare of the place.

Never scold without real cause and then only in such a way as to convince them of their wrong doing or neglect of duty. Abusive language will certainly do more harm than good. Kind treatment, with firmness, or, in other words, well oiled machinery in good repair, will always work much more satisfactorily than corroded or rusty wheels.

Should any of the plants or stock get into an unhealthy state try and trace its source before blaming the man in charge.

If an employe suggests something which looks like an improvement in working the place, or anything which shows that he is giving the matter some thought, try and encourage him as much as practical to carry out his ideas, and should it be any improvement do not hesitate to give him credit for it.

But I might go on for an hour and still have something to say, so will now remark to the employes that the first thing to consider in going into this business is that if you do not want to apply yourself constantly and diligently to one business you should never go into a florist place to work, because it absolutely needs all your time and thought. Furthermore, if the business does not pay a fair percentage on the outlay, you cannot expect to get your wages at the end of the week or month, as the case may be; and the only way it can be made to do so is for every employe to do a fair, honest day's work for the wage he is to receive; and remember that ninety-nine per cent of our practical florists in this country to-day have served a hard apprenticeship to their business and know thoroughly well how much work an assistant ought to do in one, two or ten hours. So do not flatter yourselves that when your employer is not watching you he cannot tell whether you attend to your work or not, for the employe who thinks he can idle away his time or neglect any part of his duties and not be quickly detected makes a very grave mistake and one that will be sure sooner or later to cost him dearly. Such men soon become known and are not wanted anywhere. But, if after having given these points careful consideration, you can conform to the above advice then try and get employment. Do your best and attend carefully to the work allotted to you, no matter what it may be; and always remember that to become thoroughly conversant with any business you wish to follow it is absolutely necessary to learn everything appertaining to it and to do so you will often have very many things to do which may not be as pleasant or agreeable as you would wish, but make up your mind to do it cheerfully and half the work will be overcome. By giving your mind to the work in hand you will soon become proficient in it and will be appreciated accordingly; but do not fall into the very common error of thinking you have learned it all in a few months. If the place and employer suit you stay there long enough to become proficient in some of the particular branches which may be carried on there, then when opportunity occurs ask your employer to recommend you to some other place where you can gain further



KILLING GREENFLY.

experience. By strict attention to your duties and giving your mind to them you will soon thereby convince your employer of your desire to do so and he will recompense you accordingly.

In every place you serve you will find different ways of doing things; observe them carefully, but always try to follow out the instructions given you as nearly as possible, but if you think you can suggest any improvement in the way of doing any particular thing wait until a favorable opportunity offers, then make the suggestion in the form of a question: if your employer is a sensible man he will quickly see if there is any merit in the same and act accordingly. But do not attempt to carry out any of your own ideas in this line without first consulting those by whom you are employed, because if you do and any failure arises from the same you will get the whole blame of such failure.

The greatest benefits to be derived from experience in different places are to watch carefully and make a note in a memorandum book kept for such purpose of all the different ways of doing each and every kind of work, the time it is done and the after results carefully recorded, then in after years by carefully comparing them all it is easy to draw your own conclusions and profit by the same. This course will be found invaluable to you when you start in business for yourself some years hence, as it will often aid you to avoid mistakes which we are all very apt to make—the best evidence of which is shown in your committee's choice of the man and manner of entertaining you this evening.

To Kill Greenfly.

Take a 6-inch pot, enlarge the hole to about one inch diameter, make a little supporting framework of wire around it, with a handle over it like a bucket and feet to keep it about one inch up from the ground.

With a hatchet, large knife, or better still, a hay cutter, cut up some tobacco stems about ½ inch to 1 inch long, fill the pot with these and light through the hole in the bottom; set this in the greenhouse path and it will burn like the tobacco in a pipe, giving off a strong odor and burning from two to three hours. There is no flame and no dense smoke, but a very strong odor. The stems should be dampenough to bend up easily. If too dry they burn away too quickly. A candle is best to light it with, as, like a pipe, it does not always get a good light the first time from a match.

If this works, please tell me what will destroy the little black fly that eats the flowers on alyssum, I believe it is the same that is so troublesome to cabbage. If I can get as sure a remedy for it as my flower pot is for greenfly I will have made a valuable exchange of hints.

KŒNIGA.

Violets.

Undoubtedly a good many florists have seen at some time or another plants growing remarkably fine under what we would consider adverse treatment; such is the case with me this year with the above plants and as some of us are now thinking a good deal about them I will give you an account of their behavior.

We have grown violets for years, but have never seen in house or frame the so-called disease until this season. Last year a house we had of them were very fine, starting flowering the beginning of November and ending when the sun got too hot for them in the spring. The frame which is always used for the same purpose was only fair, the plants having luxuriant foliage, but not a quarter the number of flowers to the same number of plants as we gathered in the house. This year, however, the tables are turned, those in the house have only just started flowering anything to speak of. Some of their leaves in the early part of December began to wither at the edges and had the appearance of having been burnt a little with fumigating. They had had their usual care and treatment and I was at a loss to account for it. The affected leaves were picked off and a very little of it has appeared since. The plants were checked and would not flower till now. However, they are beginning to throw up their buds freely with the promise of a good crop. The frame is splendid; healthy, dark green foliage and lots of fine violets. It is heated by steam and the circulation being bad the pit cock is always left simmering quite a good deal, almost continually emitting steam and hot water in cold weather. This causes the first three or four sash to be almost always bathed in moisture, the plants dripping with water; here is where we pick the finest and by far the most flowers to the same number of plants and have done so for the last two months. The temperature at this end ranges from 60° to 70°, while at the other 40° to 50°. This causes me to do a good deal of thinking, as I have no doubt it would anyone else who considers it. The conditions are more favorable for an

orchid than a violet. We have had more sun than usual this season and I have noticed both in the house and frame where the plants have been exposed to its full rays they are stumpy, while at the ends, where it is shady, they are thrifty. One thing is certain, where the sun has not had any power on them not a speck of the disease was apparent, but where they got it full they were the worst. Now the weather is wintry and the house covered with snow they are growing and flowering. JOHN THOMAS.



Chester County Carnation Society.

The Chester County Carnation Society met in Kennett Square, Pa., Feb. 6. There was a good attendance and an increased interest manifested, a number of ladies favoring the society with their presence.

The committee to prepare a memorial on the death of Charles T. Starr and Nathan Baker presented appropriate resolutions which were adopted.

The committee on "Sale of Flowers" reported a general expression favoring unity of action in the disposition of cut flowers. A circular prospectus of a proposed wholesale market in Philadelphia was read and discussed. Mr. Jos. Phillips of West Grove, presented the pros and cons of the sale of flowers through commission men. He was impressed with the outlook for the future of the carnation and with the increased demand, and considered it imperative that, to secure just returns for our product a change should be made in the mode of selling. He suggested a Board of Directors with a supervision of the sale at one central point. The secretary approved of a supervision that would grade the flowers and sell accordingly.

A number of fine specimens of seedling carnations, and some of the older kinds were on exhibition, notably from Mr. Brinton: Excelsior, a fragrant white on erect stems, Lady Martha and Delaware of Chester Pride type. From Edward Swayne, Aurora with the Ladenburg cup, and Grace Battles from Mr. Edwin Lonsdale; the latter was new to a majority of the members, and attracted much attention. A letter from C. W. Ward recommended the use of Bordeaux mixture for "spot" disease. Plants set in five-inch pots and plunged in soil were not affected. Carbonate of copper and ammonia diluted and syringed were found to be beneficial. Plenty of fresh air and clean growth is of importance. Pres. Ladley had found a dry Bordeaux mixture with a large excess of lime mixed with sufficient water to reduce to dust entirely efficacious against "spot."

The subject of temperature for production of flowers being presented, Mr. Phillips described a visit to Mr. Wm. Swayne and Pres. Ladley and seeing beds of Lamborn and Portia a mass of bloom and buds, in perfect health, grown at a night temperature of 40°, or less on many nights.

Notice was given of the meeting of the American Carnation Society at Buffalo Feb. 16. The meeting elected President Ladley as delegate to represent the society at the Buffalo meeting. C. J.

American Carnation Society.

Next Tuesday (16th inst.) this society will assemble at Buffalo to hold its first annual meeting. An excellent programme has been prepared and the meeting promises to be a very important one to all growers of carnations.

An exhibition of flowers of new carnations will be held in connection with the meeting and this will certainly prove a most interesting and valuable feature.

This young society possesses an unusual amount of vigor and enterprise and will certainly make its influence felt. May the meeting be a large one, that the society may confer its benefits on the largest possible number.

Hinze's White.

In reading carnation notes by W. D. Lane in issue of Jan. 14, I notice that he recommends a heavy soil and a rose temperature for Hinze's White. I would like to see a sample of Mr. Lane's Hinze's grown as above. JNO. IRVINE.

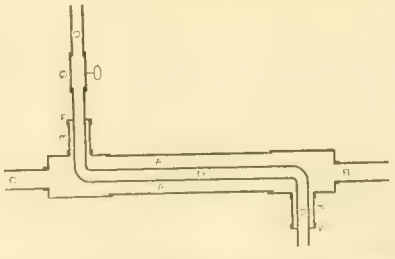
Bay City, Mich.

Tempering Hydrant Water by Steam.

Florists who get their supply of water from the street mains find it pretty cold in winter—say 45°. And when put on plants that stand in a temperature of from 60° to 70° it is a pretty cold treatment to give them, so I have chosen a method of my own to take the chill off and find it very easy to bring the temperature of the water up from 45° to 58°.

With the aid of the accompanying drawing I will endeavor to make my plan plain.

A is the water reservoir, a piece of 3-inch pipe, 3 feet long, with thread cut on each end. To this is connected two Ts, one on each end with opening for ¾-inch pipe and 1-inch pipe. B is the pipe connecting with the street main and is of ¾-inch pipe. C is the discharge pipe from



reservoir, ¾-inch and carried in the houses to convenient place to connect hose to. D is the steam pipe, ½-inch, leading from boiler and passing through the body of water, A, in the 3-inch pipe. E is a 1-inch pipe, 4 inches long, with thread cut on both ends and connected to the 1-inch opening in T. F is a 1-inch cap, with a hole drilled through it just so that the ½-inch steam pipe will pass through and this is screwed on to the piece of 1-inch pipe (E) with packing inside of cap to prevent the pressure of water from forcing its way out and making a bad leak. G is valve on steam pipe leading from boiler or steam main near at hand, and when you have one-half pound of steam on boiler you can commence to water at once by opening valve G, and it will keep the temperature of the water at about 58° as long as you have any steam on your boiler. I have let it run the whole size of the 3-inch pipe for one-half hour and found the temperature the same all the time. The steam can be returned back to the boiler if desired by making connection with drip pipe back to the boiler.

About the only thing to look out for is not to stop watering for too long a time, for the water would get too hot and would injure some of the tender plants. When obliged to stop watering for any length of time I find it best to close the valve on the steam pipe.

The apparatus should be placed in the house nearest to the street main, so that the water for all the houses will first pass through it.

I have used this ever since the water got too cold to use on the plants and it has worked very successfully with me. I hope it may be of benefit to other florists who are using steam heat or who can otherwise command the steam pressure.

New Haven, Conn. B. W. SMITH.



New Rose, "The Hugh."

We have received a dozen blooms of this new rose from Mr. Frank L. Moore, Chatham, N. J., with whom it orignated. It is a sport from the Mermet.

Certainly these blooms bear out all Mr. Moore claims for the rose as regards color. The flowers are a deep shade of pink, such as is seen in the Mermet when that variety is at its best, and the blooms are large, full and well formed, the stems long and dressed with beautiful foliage. They stood the long journey admirably, and were kept in a warm office for a considerable time before showing the effects of the unfavorable position. They faded slightly, but were to the last of a much deeper color than any of the Mermets now coming into the Chicago market. Growers who examined the blooms at this office were very favorably impressed with them, and we certainly were. If the rose has the constitution indicated by the stems and foliage of those sent to us, it will undoubtedly take an important place in our list of cut flower roses.

Rose Disease.

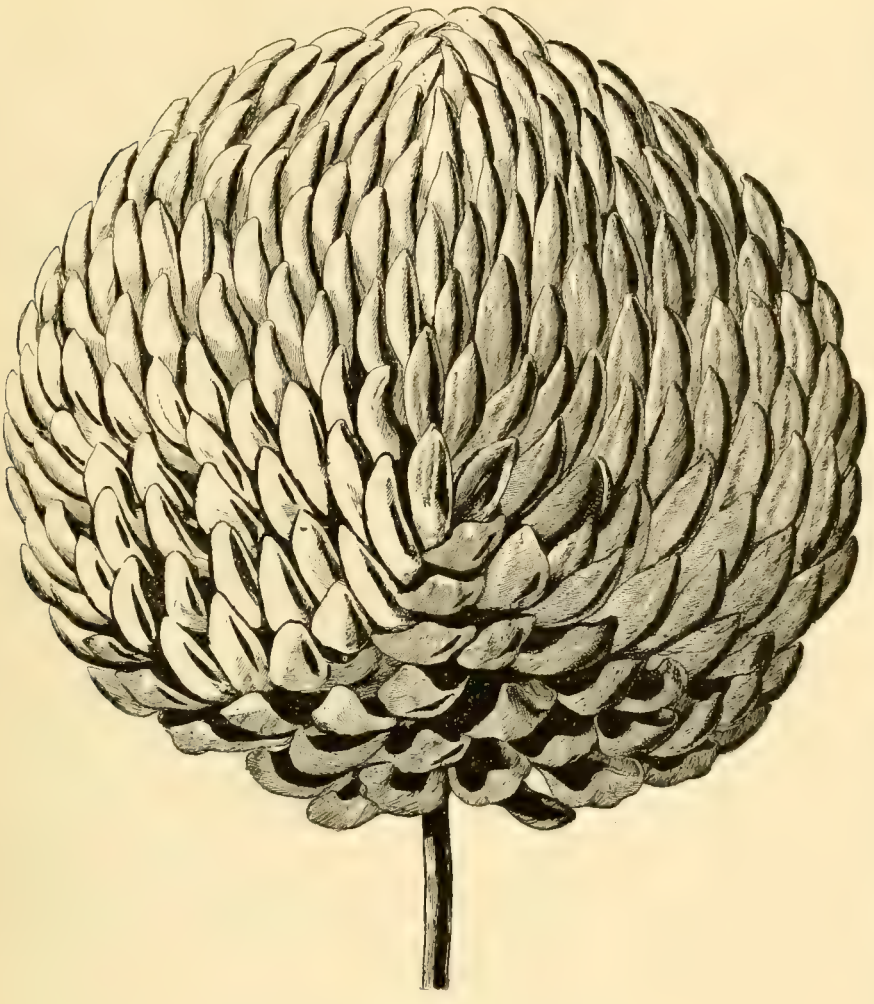
In a recent issue J. K. wishes to know what is the matter with his roses. If he will give a little better discription of the disease perhaps I can assist him.

Does he live in the coal districts? What is the general condition of his soil? What is the subsoil, and how does it act when pressed in the hand while damp?

ARROW.

Chrysanthemum Sports.

Regarding chrysanthemum sports Mr. G. Henslow, in a paper read before the National Chrysanthemum Society of England, says: "It would seem from a study of sports that the chrysanthemum contains two means at its disposal. One is a force which causes the sport to reproduce an ancestral form which had existed before; a second, when, by a new combination of its internal forces, it produces an entirely new and original color or form altogether. We cannot tell to which class a sport may be referred, unless we possessed every sport that ever existed, for comparison. But that no new sport can



CHRYSANTHEMUM MRS. L. C. MADEIRA.

arise without some alteration in the surroundings, as ingredients in the soil or climate, I think all evidence concerning plant-life tends to show. I do not mean to imply that the sport need immediately follow some alteration; for if we regard the formation of flowers as the result of forces, we know that forces may accumulate, lie dormant or remain potential till circumstances occur which, so to say, liberate them. So that a new feature may take generations, for all we know, before it can make itself apparent; or an old character may lie dormant for ages. Hence, to produce sports, the more varied the surroundings can be made; so, I believe, is the greater chance of sporting to be induced."

Chrysanthemum Mrs. L. C. Madeira.

The accompanying illustration gives a very good idea of the form of this novelty. The color is a deep golden yellow, and the petals are in the form of heavy closed quills. The foliage is fine and heavy and the plant free flowering. The variety was awarded a silver medal at Philadelphia and certificates at New York and Indianapolis.

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Personal Recollections of Louis Menand.

IV.

From that time the community at large seemed more inclined to *win* laurels than to *cultivate* them, and I think they were right in that occurrence. The abolition of slavery was more glorious than all the exhibitions put together. The war which has elevated the supremacy of the Anglo-American race—Americano-Yankee progeny! This last appellation suits me better. In it I feel the pulsation of the shaking of the hand of our Uncle Sam! The supremacy of that sublime *monotype* nation! I say monotype emphatically, for what other nation on the whole surface of the globe, after the victory of the federal armies over *old prejudices*, would have used such clemency, behaved so generously with the vanquished? None! except that magnanimous Russia, that would have done something that Yankees! would not have done, to-wit: hang half of the vanquished and send the remainder to Siberia for life. That war which has elevated the supremacy, the glory, of the grandest Republic in the world to the highest altitude, exalted the bravery of that improvised army, that many "pygmies" (mentally speaking) said was fond of *playing* soldiers. Indeed they were fond of playing, so fond of it that in 1865 our Uncle Sam, to make them give up the idea of continuing the *play*, with that "Scoundrel the Third," had to intimate to the French army in Mexico to evacuate that country; that the soil, the spot, was too *hot* for their comfort, and that the sooner they would leave the better; he (our uncle) was not obliged to re-intimate the hint. It was readily understood, as by intuition, and complied with, with double quick alacrity.

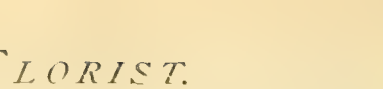
My commentaries on the resolutions of the "fifth element" and on the war, have distracted me from my subject, the exhibition. I do not remember well, but I think it was inferior to previous ones. The most attractive feature, strikingly so, was a lot of Coleus Verschaffeltii, exhibited for the *first* time, by a Mr. Townsend (I do not recollect the initials), of Brooklyn. The plants were well grown and their brilliancy was dazzling—at least they produced that effect upon me. As I drew near them I took off my hat out of admiration and sighed deeply with eager desire to get some of them, or at least some cuttings. I did not know the owner or I would have introduced myself to him as a "professor of cutting" and ready to give him a demonstration of my skill in vegetable anatomy. But he was not in the hall and I never saw him. And yet I got the cuttings on the same day! How? You will know soon. Having seen all I wanted to see I left the exhibition room—I mean the Academy of Music—that I had seen for the first time and the last. Then I went to New York, to see the secretary of our horticultural society to get some information. I was hardly in his office when I saw a branch of our *coleus* before I saw him—standing in a glass of water on his desk. I went to the desk, took the glass in my hand and presenting it to him I asked him where he took it, or *hooked* it perhaps, I forget. He answered me that I was very prompt in judging others with my own feelings. "But," he said, "I suppose that you would not dislike a portion of it, even if stolen." I answered that I would not. He took the branch and cut off for me one or two joints. Now, do you realize how I felt when I held a section of that coveted plant in my hand? I confess that I forgot for a moment my disappointment at that trinity of deceptions that weighed on my heart when I left Brooklyn: the transgressions of the "element" in having passed the resolution on "foreign exhibitors," the determination not to award me any first premiums whether deserved or not, and not expecting to get any coleus cuttings, that I did get, and without cutting my fingers! That coleus was one of the best *weeds* that I ever had. A *weed*! will you say? Well, this qualifying adjective is not of my own coining. It belongs to our old friend Mr. Wm. Grey of Albany, who described it as "a fine ornamental nettle" (Urtica urens), a bad weed in Europe any how, as I have felt its malignity on some parts of my individual - - - - long before I studied cryptogamy. At the time I got it it proved to be one of the best "roots of all evils." This "root plant" suggested to me many more of the same quality but more weedy, "a variegated weed" would say our friend above. It is Ægopodium podagraria fol. var. (Gout-wort in English), a plant growing as freely everywhere as Quack?—Couch-grass (Triticum repens). It is eminently a root of all evils, but it produces both abundance of roots and some money, which to my knowledge "pays better" than coleus to-day and gives less trouble. But I think I have said enough, if not too much, so I shut the valve. And what next? I hardly know, for I have been led astray, wandering hither and thither, without I might say, having the consciousness of what I was about.

I have, when on the ground of the Brooklyn Hort. Society, forgotten a few incidents that probably I shall never have occasion to relate unless I do it now. That year 1854 was a remarkable, an eventful year. First was the advent or reviving of the Brooklyn Hort. Society, which society shined for seven years, except a very few cloudy days. It was also the *first* year we saw a travelling agent from an European horticultural establishment on this continent—at least to my knowledge. It was the year of the Crimean war, not a holy war, but the reverse. I say not holy perhaps because it somewhat hurt my purse— a sensitive thing with every body. It was the first year I began to import plants (direct) from Messrs. Low of the Clapton Nurseries, the founder of the establishment. His son, who died lately, was the same man who came hither in 1854, and who came to see me in Albany, with Mr. Edgar Sanders, now a resident of Chicago. This Mr. Low, when he saw me at 15 or 18 yards distant, hallooed to me: "Are you Mr. Menand?" "Yes" I answered, when he said again "Mr. Menand? the fellow who sold in Brooklyn last May an Ixora coccinea for 4 pounds—$20!" When he spoke these words we shook hands. "Well," he exclaimed, "you are a lucky fellow to sell a plant for $20! We would be glad to sell all our ixoras for that amount. I would like to see these 4 pound plants." We were within 3 or 4 yards of them; they were in a hot bed frame behind us. I opened the sashes and showed them to him. I had perhaps 6 or 8 dozens of different sizes. Then he turned round to me and said: "If our plants were as good as these we would not sell the stock for 4 pounds." I answered him that I believed him, and we continued to talk of something else—of giving him an order for some plants; this was the main object of his visit. Then we began to argue about the identity of an erica. He gave it a name different from the one I had. He said my name was incorrect. Then I told him "you have cheated me, for it came from your establishment." He said it did not. I said again, it did. I found afterward that he was right. But what makes me mention the circumstance is not the name, but the fact that that plant was *dead* and neither of us noticed it, and yet Mr. Low was a competent judge in that matter. When he and his friend left I went with them to Albany, always thinking of my plant (ericas were at that time my hobby) that it had a queer looking appearance, but could not realize that it was dead. As soon as I got home I went to see it, with a candle (it was night) but could not see any indications of its being dead, no more than 4 or 5 hours before. As soon as day-light came I went again. Then I did not need spectacles to see that it was gone—*ad patres*—gone to heaven—dead. Since that I have seen many such examples. I once sold one that I knew was dead, that the man had selected from among a few of the same kind. That man was a gardener. I sent him that plant, with another that was alive. He got them the same day I sent them and the day following he wrote me I had made a mistake; that he only wanted one. He soon found out he was mistaken, not I. Once I sold a Cereus senilis in the same circumstance and the party who got them told me the dead one was the better looking of the two. That man was our friend Mr. Wm. Grey. So this long spun story shows you that gardeners are not infallible.

Now that I am stuck in the ruts of prolixity let me continue a little longer about the events that took place in the year 1854. A few days after Mr. Low was gone, as I had promised him, I sent him an order, mostly ericas, and a few other plants, the whole not to exceed $70 or $75. In September or October I received a box containing the plants ordered, at least think so, but I guessed! When I had opened the box I found that the plants and the pots (they were in the soil) were in a powder, as if they had been ground by a millstone, so fine that one could have snuffed the whole like snuff. And strange to say I saved two plants, one Funkia grandiflora, that proved to be a Funkia alba, a plant I had in quantity; and one Genista prostrata, a British plant. One was worth 6 pence British and the other 1 shilling. That was all I had for $70 or $75 and $6 or $7 for freight. Was not that *coining*!! I wrote Messrs. Low and told them the condition of the plants and added: "If you feel as I do, when spring comes send me again the same lot and charge me half the price agreed." They did so and when the plants came I had about $6 or $8 worth alive. They gave me the particulars of the shipping in Liverpool. All available steamers had been chartered by the government to send ammunition, troops and all kinds of supplies to Sebastapol, and they found only a small steamer, already overloaded, that would take my box, and they were obliged to stow it near the engine room, which accounted for the "snuff" I got. And this explains to you my "purse hurt" by the Crimean war. Now will all this long rigmarole story or stories pay you for the candles you will burn in reading them? If you say yes, I shall be satisfied. But I was not satisfied in the transaction, although I did not give it up, for from that time I began to import from France, Belgium and England. I had awful bad luck, still I persisted. Some plants I imported *three times* before I could get one alive of Latania rubra, Phœnicophorium sechellarum, Pandanus reflexus. I think I spent $100 before I could get any alive. Pandanus reflexus was the worst, but when I had it I did well with it because I could propagate it, but the palms I could not. So when I sold them I had to ask a large price, which made some of my friends of the "element" say that I charged awful prices. It may have been so, but if to-day I had nothing to live upon but what I realized on those plants I could not have one meal a day. I could not very well tell how I made what money I have. On nothing in particular, but on many things. I always kept a little of everything in the line of horticulture, so I could supply almost anything wanted. During the secession war, it was the "Golden age!"

Labelling at Exhibitions.

At the last exhibition of the Horticultural Society of Chicago nearly every plant and vase of flowers in the hall was provided with a printed label like the one of which we give an illustration herewith.



The labels were of paper similar to that used in shipping tags and were provided with brass eyelets. The great majority of the labels were printed before the opening of the exhibition. Lists of the varieties of chrysanthemums that would most likely be shown were secured in advance from those whom it was known would probably be large exhibitors. These lists were combined together, duplicates crossed out, and then from 10 to 50 of each kind printed. Many were not used, but the expense was so light when gotten up in this way that the loss could well be afforded. The labels were printed in sheets, a dozen or more different kinds on the same sheet, and the labels cut from the sheet afterward, then eyeleted. The great superiority of a label printed in bold type over any sort of a written one is quite apparent. In addition to this a thousand plain labels were arranged for also, and an expert letterer was engaged for the day before the opening, and the opening day also, to letter labels that could not well be arranged for in advance. And it was found that this man paid for himself several times over by lettering exhibitor's placards for a moderate fee and in lettering the numerous placards needed around the exhibition hall, many of which are not thought of until needed.

The labels were suspended from the plants by stiff wires with a hook at the top, the wire stuck in through the same loop in the string used to tie shoots to a stake, or on longer wires stuck into the soil. The same wires were used for the cut flowers, being stuck into the vases among the flowers, a little to one side, so that the label set out a little way from the blooms.

Palms, orchids, begonias, and cut flowers of roses, carnations, etc., were all labelled too, and that this free labelling added a great deal to the interest in the exhibition on the part of the general public was plain to be seen. Before the exhibition was over people began to speak of varieties by name in conversation with one another, and specially interested ones, with note books in hand making memorandums of sorts that particularly pleased them, was a much more common sight than at previous exhibitions.

We are convinced that labelling in this way enhances the educational value of an exhibition at least 100 per cent.

Labelling at Exhibitions.

After the excellent and timely suggestions upon the advantages of having everything plainly and conspicuously labelled and the best manner of doing it, offered by the FLORIST before the fall exhibitions, I confidently expected to find all well managed societies falling into line, and to meet with no more serious trouble in this respect, but I found a much larger percentage of the chrysanthemums at a prominent eastern exhibition minus plain labels than in the same place the previous year. One of the principal inducements for me in visiting these shows is to learn what varieties of recent introduction are worth picking up and when I find no mark by which I can indicate such as specially please me I feel somewhat inclined to leave in disgust. Of course varieties which are entirely new and unnamed cannot be labelled in the usual way, but I see no reason why even these cannot be so marked as to be known when subsequently offered for sale. For instance, all the specially fine seedlings might be labelled with the name of the originator and a specific number (so arranged as not to be confounded with the number of the exhibit) with the understanding that the introducer should give these items along with the name given to them, when first offering them for sale. It would then be easy to recognize them.

WM. F. BASSETT.

Cleaning Brick Flues.

Instead of running a line through I take ½-inch gas pipe of lengths to suit, screw them together until I have the required length and find it O. K. BEN MOSS.

Mendota, Ill.



LABELLING AT EXHIBITIONS.

Boston.

The meeting of the Gardeners' and Florists' Club on Feb. 2 was well attended, there being about sixty members present. The gratifying announcement was made by the president that the committee appointed to procure a charter had performed that duty, and that the club is now duly incorporated under the laws of the state of Massachusetts.

The essay for the evening, by Prof. B. M. Watson of the Bussey Institution, on "Methods of Propagation," which is presented in full in another column of this paper, was listened to with much attention, and was followed by an interesting and at times animated discussion on the various points treated.

Jackson Dawson told of some interesting experiments which he had made, splitting up the seeds of sunflower, orange and other things before planting, and obtaining several perfect plants by this method from each one of the divided seeds. The discussion of seed splitting was brought to a humorous ending by a member in the back row, who gravely inquired of Mr. Dawson what number of divisions he could make from a gloxinia seed.

The old question of the comparative flowering merits of cuttings taken from blind or blooming wood on roses and other plants was introduced and brought out a very positive opinion from Prof. Watson that there could be no difference, and that he could see no reason why so-called blind wood should in any way affect the blooming power of the future plant, good wood and a healthy plant being, in his judgment, much more important, and the main thing to be sought.

Jackson Dawson said that he would go further, and claim that blind wood ought to give the best results, as it was apt to be short jointed and well ripened, whereas flowering shoots would have a tendency to be pithy and weak. He would select blind wood for cuttings every time in preference to flowering wood.

Mr. M. H. Morton, who inclines to the opposite view, claimed that his experience had been that he could get better plants from flowering shoots, but he had this side of the argument to himself, all the other participants, including Benj. Grey and Louis Guerineau, favoring Mr. Dawson's views.

A unanimous vote of thanks was tendered to the essayist.

On motion of Lawrence Cotter, whose bumps of sociability and conviviality are well developed, seconded by Sam Coleman, who alway coincides with Mr. Cotter's views on the necessities of the inner man and the wisdom of providing abundantly for the same, a committee was appointed to arrange for another club dinner to take place in March.

Three new names were added to the membership list.

The cut flower trade continues brisk, and when good stuff is offered it sells at sight. There are a few Jacqs, Brunners and other hybrids of varying quality coming in. Narcissus Von Sion and Single Trumpet are plenty and sell well. Harrisii lilies, callas and fine roses form the principal decorative stock in the store windows. There is an abundance of small stuff, such as myosotis, nasturtiums, coreopsis, Marguerites, etc., for variety. Tom Cox is bringing in some neat plants of erica, the first of the season. There is also a limited quantity of cut erica offered occasionally. Carnations continue to sell well, and still maintain the prices at which they have been quoted ever since the holidays. Violets as a rule are only fair in quality. There are a few of the single variety coming in, but they do not take in Boston.

At Horticultural Hall there is an attractive little display on the table every Saturday of camellias, azaleas, etc., from Jas. Comley, orchids from C. M. Atkinson, forced hardy shrubs from Charles Jackson Dawson, etc. The next regular exhibition of the society will be the spring show, which is scheduled for March 22-23-24-25. A special prize of $50 has been offered by Mr. F. B. Hayes for the best fifty trusses of rhododendron of not less than twenty-five varieties, to be competed for at the Rhododendron Show on the 6th of June.

The Shady Hill Nurseries, formerly conducted by F. L. Temple and recently by Temple & Beard, have come into the control of a corporation entitled the Shady Hill Nursery Co. E. L. Beard, President, and H. M. Pratt, Treasurer.

A. T. Cefrey is preparing to open a new flower store on the corner of Washington and Hanover Sts.

New York.

The city florists are all busy. The last week has been a phenomenal one as far as the number of dinners and social events is concerned and there are plenty more in prospect. The rose growers could have disposed of many more roses during the past two weeks and it would take a pretty big crop before any overstock would be apparent. Carnations share in the general prosperity and violets of course go at sight. There is some grand mignonette in the market which sells high, but there is considerable preference manifested for the old fashioned small flowered kind which makes up in many arrangements better than the mammoth kind. Tulips are very handsome and sell well, but at low prices.

From Mr. De Forest, Siebrecht & Wadley, Pitcher & Manda are coming in large quantities of beautiful cattleyas, which are used very extensively this year in first class work.

Siebrecht & Wadley's great orchid show will take place at the Eden Musee on March 2 and they hope to eclipse all of their former efforts in this direction.

At the meeting of the New York Florists' Club last Monday evening suitable resolutions upon the death of James Taplin were presented by Mr. J. N. May and were unanimously adopted by the club.

The question of securing a club room was brought up and after discussion Messrs. May, Dean, Asmus and Weathered were appointed a committee on ways and means, and requested to report plan and estimate of probable cost of such headquarters at the next meeting of the club.

The committee on Chrysanthemum Show reported that satisfactory arrangements had been made with the Madison Square Garden Co. and that the exhibition would open Nov. 1. It was also announced that the schedule of premiums would be ready in a few days. The premiums will be even larger than last year, and a grand show is already assured.

Mr. May's essay on "Employer and Employed," which appears in full elsewhere in this issue, was discussed by Messrs. Allen, O'Mara, Russell, Manda, Hillman, McDonald and others.

There was a good attendance at the Bowling Club in the afternoon.

Mr. Ernst Asmus is confined to the house by illness. All hope to see him around again at an early date.

Robert Burgess, an employe of the Klunder Co., is supposed to have been lost in the Hotel Royal fire.

Washington.

Freeman is fitting up and expects shortly to occupy a fine establishment on 13th street (No. 612) near F. It is very spacious and has an immense show window. The interior is in very good taste, with long, white marble counter. The rear end with its ample exit is supplied with roomy stands for plants and made cheery by sky-lights. The walls and fixtures are all in simple white and gold. Refrigerators, cold chambers and hot water heating arrangements are of the most approved kind.

Gude Brothers also remove this week to their new and admirably located storeroom, No. 1224 F street. Here too everything is fitted up in the very best style. The entire front is in glass and every convenience is provided which a modern first class florist's establishment calls for.

There are now within a few blocks of each other, almost on a line, the following florists' establishments: Strauss, Studer, Clarke, Dieterich, Gude Bros., Freeman, Fisher, Small, Hale and Miller.

The marked difference in the character of floral decorations here this season as compared with previous ones merits some notice and a review of the past month of what has been done may not only prove interesting, but also instructive. During a series of past winters the number of elaborate and expensive dinner, reception and ball decorations have been exceptional for a city of this size. Decorations involving an expense of from $500 to $1,000 were not at all infrequent, whereas this season, with the exception of what has been done at the White House, there have been only two notable affairs, but these were of such unique character that they cannot fail to interest your readers.

The cut flower trade and also foliage

decorations on the whole have been quite equal to the past, but while the orders have increased materially their extent is of a decidedly more limited character, one florist stating that his average orders rarely exceeded $15 to $20, whereas in previous years an order of from 50 to 100 corsage bouquets alone was not uncommon.

Of the two occasions referred to the first I shall mention is the reception and ball given at the legation by the Chinese minister and Madame Tsui, his wife. These periodical balls and receptions as a society event here are second only to the Diplomatic dinners given at the White House and the kind hearted minister is not a little taxed to accommodate all whom he generously invites. The floral decorations on this occasion were, to say the least, unique and of a distinctively Oriental character, so far as the material obtainable here would admit of making them. Secretary Ho and an assistant personally selected the requisite plants and flowers and then superintended their arrangement, the decorator, F. H. Kramer of Studer's establishment, simply carrying out the secretary's directions. On entering, at intervals along the wide hallway on either side, stood tall Seaforthia elegans, alternating with kentias and arecas, the corner cabinets being covered with Chinese primulas. In the reception room to the right there was an array of large palms, the mantels being banked with orchids, while the pictures and chandeliers were heavily draped with garlands of smilax, interspersed with Chinese Sacred Lilies (Joss flower). The large mirror was flanked by tall palms and banked in front with orchids and ferns. But the distinguishing feature of the decorations in this room consisted of sixteen Chinese vases and jars, ranging from two to five feet in height, which held peculiar cone shaped bouquets twenty inches and less across the base and some twenty-five to thirty inches in length, made up of Chinese Sacred Lilies, orchids, American Beauty roses and ferns wired to long stalks made to fit into the vases or jars.

In the ball room the some general idea prevailed, huge pyramids of palms occupying the center, in the midst of which the orchestra was placed, completely hidden from view. Here too the chandeliers and windows were draped with smilax interspersed with orchids. All the other rooms contained vases with bouquets similar to those in the reception room. Finally the table in the dining room had three low pyramids of American Beauty roses, alternating with tulips, narcissus and orchids arranged along the center, the largest being 36 inches long, 18 inches wide and 8 inches high. Here too the mantels and fire places were banked with ferns and Cocos Weddelliana, while orchid boutonieres were supplied to all who wished them.

We have thus had given us an idea of floral decorations in the "flowery kingdom."

A very different idea prevails, however, with the people of this western hemisphere and this was well illustrated by the Bonaparte or so-called Franco-American ball, given at the Arlington last month in honor of the debut of Miss Bonaparte, the daughter of Col. and Madame Jerome Bonaparte of this city. It is generally conceded that the floral decorations on this occasion in point of artistic design and elaborate detail have never been excelled at the National Capital. I will not detain you in the reception room, although elaborately decorated with foliage plants and immense vases of loosely arranged long stemmed roses whose perfume pervaded the whole apartment, but go right on to the ball room, rich in its simplicity of white and gold and its many mirrors reflecting a hundred fold the beauty gathered there. All around the walls above the windows ran a frieze of palm leaves artistically arranged with occasional festoons of Asparagus plumosa. The orchestra balcony at the west end was completely hidden in foliage, beneath which on a low dais of green stood a white and gold wicker high heeled slipper nine feet long, but of perfect proportions, imported from France especially for this purpose, as were also several hundred tiny wicker slippers with handles, six or eight inches in length, containing favors made up of violets, lilies of the valley, carnations and rose buds. In addition there were many other and varied favors, but these floral favors were so artistically arranged in and all over the huge mother slipper that it gave a most charming tone and effect to the whole mass of gifts the generous host and hostess had provided.

But this gives only a faint idea of what the decorators (Smalls) achieved on this occasion. Innumerable electric lights imparted a fairy like effect to the foliage grouping in every niche and corner of this immense suite of rooms intensifying colors and greatly enhancing the contrast of light and shade.

Before closing, however, let me say a word about the decoration of the supper room, where on this occasion a departure from the usual practice of having a long or continuous table was made. Thirty tables, seating each four persons, were decked with the finest of linen, china and rarest of flowers, and every table had its distinctive color and character. The one was made up principally of Ulrich Brunner roses, another of white La France, another of Beauty, of Watteville, Brides, etc. The walls, mirrors, windows and chandeliers were delicately garlanded with Asparagus plumosa and smilax. Verily, Flora reigned queen on the evening of the Bonaparte reception and ball. Z.

Philadelphia.

The regular monthly meeting of the Florist Club was held in the library room of Horticultural Hall, Tuesday evening, Feb. 2. There was quite a large attendance, some sixty members being present.

This is the first time the room has been occupied since the alterations were completed and the bright, cheerful appearance, in such contrast to the old surroundings, was very favorably commented upon.

In the centre is a large table covered with the best periodicals relating to the business and the growth of flowers. Some of these have been donated by the publishers, while others were provided for out of a fund in the hands of the Library Committee. Among them we note the following: *Gardeners' Chronicle, Gardeners' Magazine, Gardening World, Garden and Forest, American Gardening, American Agriculturist, American Florist, American Cultivator, Farm Journal, Florists' Exchange, New England Homestead, Rural New Yorker, Farm and Home, Farm and Vineyard, Farm and Fireside, Success With Flowers, Harper's Monthly, Scribner's* and *Century*. This should do for a beginning.

Quite an interesting discussion took place as to how much florist there should be in a man to make him eligible to become a member of the club. It has been decided for some time that a dealer in florists' supplies is so identified with the business that he can be proposed for membership, but when the rubber hose man, the paper box maker, the rope and twine dealer are knocking at the door, it was thought time to draw the line, and hence the discussion. The whole matter was finally referred to a committee.

George Rauch, Ridding G. Palmer, W. F. Zibell, John Crawford and John Andre were elected to membership.

A large photograph was received from the St. Louis Florists' Club of their chrysanthemum show last fall.

At the next meeting of the club Mr. Charles C. Price will read an essay on "How to Grow Hybrid Roses."

Mr. Herr's paper on "The Advantage of a Florist Growing Specialties" was well received. Quite an animated discussion took place as to what disposition should be made of it. After some unusual flights of oratory, it alighted in the hands of Secretary Michell, who will see to its publication.

Mr. Grigg was present and addressed the club on the subject of the proposed wholesale Florists' Exchange, in order to get the views of the members, answer objections and enlist new friends in its favor. There was not much discussion, but all who spoke appeared to look favorably on the project, and seemed to think that, if started right, it had a fair chance of being successful.

Trade the past week has been fair, and we hear very few complaints. All the good stuff is sold out clean every morning at good prices. Beauties are fair and sell for 35; good hybrids very scarce, the best bring 60, and from that down to 35 for medium sized flowers; Mermets are now very fine and with Cusins are the most popular and best selling roses of their class, bringing from 8 to 10; the smaller roses sell for 5 and 6; carnations still bring 2 to 2½, and seem to be getting scarcer; this flower is growing steadily in popularity; tulips are 5; valley 4 to 5; freesia 1 to 1½; daffodils are now to be had in quantity at 6.

George Anderson has a fine house of Brunners and Laings which will be in next week. His Brunners look particularly fine, and are much better set with buds than the Laings.

Messrs. Evans & Battles (C. F. Evans and H. H. Battles) have dissolved partnership, Mr. Battles succeeding to the business at 108 North 12th St. Mr. Evans and his brother Frank will take charge of the Rowlandville Nurseries at Frankford, Mr. Geo. C. Evans giving up the business to his two sons. In view of the experience Mr. C. F. Evans has had as a retailer, it is expected that his roses will have just the color and length of stem required.

John Burton is now cutting some good Laings and Brunners, but finds it hard to fill orders, as the demand far exceeds the supply.

Mr. J. William Colflesh has erected two new houses, just to keep the material and sash he had laying around from going to waste, is his excuse.

The club alleys have been well patronized the past week, and the interest in the contests of the three classes is increasing. Brown has made a new record, his average for January being 162 pins to a game in 54 games rolled. In the first class McLean now leads, his score in the last contest being 542 for 3 games. Longinette is a good second. Campbell leads in the second class, and Wm. Craig in the third.

Robert Craig is better, and with Mrs. Craig, is spending a few days with Mr. May at Summit.

South Lancaster, Mass.

The beautifying of Mr. Eugene Thayer's summer residence is fast progressing under the skillful direction of Mr. E. O. Orpet. At this time of the year the principal outdoor beauty is in the charming landscape as seen from this elevated location and the noble evergreens bending under their load of snow. But within the greenhouses there is much to see and admire. The dendrobiums, both nobile and Wardianum, are in grand condition. The Cattleya Mossiæ are showing flower sheaths in abundance and will be very handsome. In one house is a bench of May's Mignonette, in another a display of Sutton's cyclamens and a collection of Farquhar's cinerarias, all of which are creditable to their grower, as well as to the seedsmen whose names they bear.

Under the center bench in one house is a luscious bed of mushrooms, giving a valuable crop in a place which is usually permitted to be waste ground. Among the specimen plants are splendid pieces of Platycerium grande and Nepenthes Mastersiana and from the roof the brilliant flowered Tacsonia Van Volxemii hangs in graceful streamers. There are six houses in all, heated by hot water under pressure.

A short distance away is the beautiful estate of Mr. John E. Thayer, also recently laid out. Jos. Clark, Jr., is the gardener. The driveway is a feature in itself. On one side is a hedge of Salix aurea, the golden branches forming a charming picture in the winter sunlight. On the other side is a grand row of young Picea pungens, said to have cost $5,000. This is flanked by great masses of Rosa multiflora Japonica. In the houses are fine plants of Cypripedium Boxalli and villosum in flower and some noble specimen ericas loaded with bloom. The cyclamens and primroses here are also good.

At Mrs. C. V. R. Thayer's are some specimen variegated agaves that would make John Thorpe's heart rejoice and would go a long way towards filling up that show house at the Columbian Exposition. The houses are in charge of Mr. Fletcher, who with his right hand man, Mr. Michie, appears to be thoroughly enjoying his winter vacation.

South Lancaster boasts of one commercial florist, Mr. G. F. Chandler, who has grown up with the town, whom everybody likes, who carries his three score years lightly and insists that he has but just arrived at the years of discretion. Commercial gardeners don't have winter vacations, but Mr. Chandler is in the fashion in one respect, that is with cyclamens and primroses and he grows them just as well as some of his neighbors.

Buffalo.

Good seasonable winter weather and a number of receptions, teas, "four o'clocks," etc., has greatly improved business these past two weeks and the future is bright for a continuance of the same. There has been no surplus of flowers lately of any kind. Tulips, daffodils and hyacinths, which seemed to lag a little a few weeks ago, now meet with a ready sale.

From what we glean from notes from other and larger cities Buffalo is I think a little to the front in producing good tulips. Since the first week in January the highest quality tulips have been grown here with stems 10 to 15 inches long, but there is only about three varieties worth growing for early use, viz., a good yellow (Chrysolora or Yellow Prince), La Reine and Vermillion Brilliant.

Scott has been using orchids in mantel decorations on several occasions of late, much to the satisfaction of his patrons. What can be prettier than a number of Dendrobium Wardianum gracefully nodding from among a bank of Adiantum cuneatum or Farleyense!

Mr. T. Mansfield of Lockport was in town last week. He reports business among the florists of the "City of Locks" as being good all around and no flowers going to waste. Miss Nellie Lewis of Lockport, daughter of the veteran florist, and for whom the pink carnation was named, was married last week.

Each year of late there is in Buffalo an increase in sale of flowering plants; azaleas, cyclamens, primroses, cinerarias, in fact any showy plant in its season, meet with a ready sale.

Mr. William Belsey of 18th street is our best cyclamen grower. He appears to have brought this faculty with him as well as many other good qualities from old England. Mr. Belsey prefers C. persicum grandiflorum, says it makes a more compact and free blooming plant than the giganteum variety. Another plant found in abundance at Mr. Belsey's is the true old English primrose (P. vulgaris). This can scarcely be called a showy plant, but its delicate odor and old associations are appreciated by many.

We are all ready for the "carnationists" and hope a good crowd will attend. A bit of healthy advice to them is, don't forget your rubbers. G. S.

Chicago.

Frederick Sulzer, one of Chicago's oldest and best known florists, died suddenly last Saturday evening at his home in Ravenswood, of typhoid-pneumonia complicated with brain trouble, aged 56 years.

The announcement of his death was a great shock to his many friends, for only a few days before he appeared strong and hearty and about the last one to be called from life.

Mr. Sulzer's father came to Chicago in the thirties, and purchased from the government the land upon which a part of Ravenswood is now located. Frederick learned the nursery business with Messrs. Ellwanger & Barry of Rochester, and after serving his apprenticeship established a nursery upon his father's land. Later greenhouses were added, and he was engaged in the business till a few years ago, when he retired to enjoy a competence acquired through the great appreciation in value of his real estate holdings.

He was a very liberal man, of kindly social nature, and had the confidence and respect of all with whom he came in contact. He held many official positions in Ravenswood, and his name was closely associated with every improvement made in that pretty suburb.

He leaves a wife and five children, all abundantly provided for. The funeral was held Tuesday under the auspices of the Masonic fraternity.

Mr. Charles Reissig is a very sick man, and the worst is feared.

Devine's Boiler Works has been removed from South Canal St. to 56th and Wallace Sts., and an office established at 189 State St. The moving was an enormous job, and Mr. Blish says that of the dirt that came to light he recognized some that he had been on familiar terms with before the fire.

There has never been a season when the supply in this market was so evenly balanced with the demand as the present one. There is no overstock of any particular variety, neither is there any decided shortage. In roses there is nothing to boast of, the quality being only fair. Beauties continue quite scarce and what few there are in the market are rather poor. There are no hybrids whatever at present. A few Wabans are coming in and though good in color are very small in size. Carnations are still fine and abundant, and all find a market. The cut of violets has doubled in the last two weeks, but the demand has kept equal pace.

The bulb stuff is vastly improved. Tulips are beginning to show up in good form. In yellow we have Chrysolora and Yellow Prince. The latter in particular is exceptionally well grown by J. T. Anthony. These flowers average twelve inches of clear stem with fine healthy foliage. Kaiserkroon also shows up well, although not as long in stem as yet. Daffodils are fine, particularly Von Sion. Lily of the valley is in good supply and is of very good quality.

C. E. Hampton, who has conducted a floral store on Wabash avenue for the past six months, died last Sunday.

George Collinson, an old timer in the trade, died Monday, the 8th.

Hartford, Conn.

The annual meeting of the Hartford County Horticultural Society was held Jan. 20. The retiring secretary, Edwin A. Taylor, reported a very prosperous year. The treasurer's report showed $1,430.13 on hand. Officers for the coming year were elected as follows: Pres., John W. Crane; Vice-Pres'ts, Wm. B. May, John Coombs and B. E. Beemer; Sec'y, C. H. Pember; Treas., Geo. W. Hubbard; Executive Committee, John C. Webster, E. B. Smead, John W. Crane, J. H. Bairdain; Committee on Awards and Premiums, J. W. Crane, P. A. Sears, John O'Neil, S. J. Kirk.

The first annual meeting of the Connecticut Pomological Society was held at Hartford on Jan. 26 and 27. There were many interesting essays delivered and the meetings were generally attended by the florists of the state.

An exhibition of fruits and flowers is talked of.

Florists Sidney North and C. C. Munsell have recovered from their recent illness.

Mr. A. R. Lomel, manager of the floral department of Brown, Thompson & Co., is in New York buying a supply of plants for spring trade.

Trade at the present time in Hartford is very brisk. Violets and carnations have been quite scarce owing to the dark days of late. R. J. CAMP.

St. Louis.

Notwithstanding the rainy weather business during the past week has averaged good. Prices in general steady, with an increased demand for set work.

Messrs. Michel are sending out a fine colored plate of the Mexican Morning Glory, Ipomæa palmata.

Our city park commissioner predicts a glorious future for the St. Louis parks. He says that four years will see a remarkable improvement in their floral attractions. J. W. D.

SEE advertisement in this issue giving points about our new directory and reference book.

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

PINK SPORT FROM BEGONIA RUBRA.—Mr. O. R. Demmler, Eau Claire, Wis., sends us flowers and foliage of a pink flowered sport from Begonia rubra. They are identical in every way with those of B. rubra, except in the color of the flowers, which is a pleasing shade of pink.

"THE CROWN OF THORNS" PLANT.—Honor to whom honor is due. Neither the *Rural New Yorker* nor any other newspaper or person openly raised one breath of objection to this fraud till after it had been thoroughly investigated and openly exposed and vigorously denounced by the chairman of the Nomenclature Committee before the Society of American Florists.

THE Michigan State Commission of the World's Fair has appointed five florists, in widely separated parts of the state, a committee on floriculture for the state, but seems to have provided no way for the committee to meet except at their own expense. Certainly if the committee is to do anything they must meet and as they give their time and services free it is decidedly unjust to expect them to pay travelling and hotel expenses into the bargain.

Catalogues Received.

E. D. Sturtevant, Bordentown, N. J., aquatic plants; Johnson & Stokes, Philadelphia, seeds; John R. Box, Croydon, England, begonias, etc.; Alfred Bridgman, New York, seeds; Thomas S. Ware, Tottenham, London, Eng., seeds; same, dahlias; same, begonias; same, chrysanthemums; H. Cannell & Sons, Swanley, England, seeds; W. W. Hilborn, Leamington, Ont.; small fruits and plants; DeCou & Co., St. Paul, Minn., seeds; P. H. Foster, Babylon, N. Y., nursery stock; Stark Bros., Louisiana, Mo., nursery stock; Ludwig & Richter, Allegheny, Pa., seeds; M. F. Ludwig & Son, Allegheny, Pa., plants; W. B. Cole, Painesville, O., nursery stock; John Gardiner & Co., Philadelphia, seeds and bulbs.

EAST DOWNINGTOWN, Pa.—James F. Reid is building a new house 54x18.

DELTA, COLO.—H. A. Parcells, formerly of Glenwood Springs, has removed to this place and is rebuilding here.

AUBURN, ME.—The dwelling house of Florist Geo. M. Roak was badly damaged by fire on Feb. 1. Insured.

COSHOCTON, O.—Martin J. Schott has about completed a greenhouse 62x20 feet with potting and boiler house attached, all built in a substantial manner, to be heated by hot water under pressure.

VICTORIA, B. C.—J. T. Higgins is moving to Cadborough Bay road, where he has nearly completed the erection of about 5,000 feet of glass. The attempt to form a trade organization has not yet borne fruit. A preliminary meeting was held, also two adjourned meetings, but a permanent organization has not yet been effected.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As gardener by Scotchman; married; 13 years in last place. Address T. MCTAGGART, Fairfied, Conn.

SITUATION WANTED—By English gardener; experienced in all branches of the profession. G. J. EVANS, 405 8th St., 2d Ward, Flint, Mich.

SITUATION WANTED—As a cut flower worker by a young man 24 years old; 7 years' experience. Address C. DORSEY MISH, Lebanon, Pa.

SITUATION WANTED—By a young man with good experience in greenhouse and bedding plants. Private house preferred. Address P H, 3551 La Salle St., Chicago.

SITUATION WANTED—As foreman or manager. First-class rose grower, designer and decorator, and all round man. References given. Address GROWER, care American Florist, Chicago.

SITUATION WANTED—By a young man, age 21; has had 3 years of good experience in growing cut flowers and bedding plants. Can get good reference. Please state wages. Address W M C, care American Florist, Chicago.

SITUATION WANTED—By a first-class florist and rose grower; commercial or private place—private preferred; sober, industrious; best of references; 25 years' experience. Address FLORIST, care Ludwig & Richter, Allegheny City, Pa.

SITUATION WANTED—By competent florist and gardener on private place; age 30, single, German; 7 years charge of a place; 10 years in this country. Best of references. Address CHAS. TAILBE, Penna. Hospital, 8th & Spruce Sts., Phila., Pa.

SITUATION WANTED—By a thoroughly practical gardener—private place. Has had charge of some of the best places around Philadelphia. First-class references. Address G S, care John Burton, Chestnut Hill, Philadelphia.

SITUATION WANTED—By a first-class gardener having a thorough knowledge of all branches of gardening. Had several years' experience in this country. Can furnish the best of references. Address R C, care W. J. Stewart, 67 Bromfield St., Boston, Mass.

SITUATION WANTED—As manager or foreman by German of 30 years; married; in private or commercial place. Held such position for the last 6 years. Thoroughly versed in growing roses, carnations, violets and all other florists' stuff. Good references. CHAS. JOHNSON, Jackson Ave., Jersey City, N. J.

SITUATION WANTED—By gardener in private place; married, small family; 18 years' experience; have a general knowledge of the business; understand the cultivation of grapes, etc. under glass; is a good plantsman and vegetable grower. Wife can make butter if required. Can be well recommended from last employer. Address W B K, 7 Morgan St., Somerville, Mass.

WANTED—A good, reliable man for growing general class of plants and cut flowers. JNO. D. IMLAY, Zanesville, Ohio.

WANTED—Competent gardener and florist; sober and industrious; for commercial place. Man familiar with irrigation preferred. Address W. N. TEN EYCK, Boulder, Montana.

WANTED—One or two young men with a fair knowledge of the seed business. Reply, stating experience and wages expected, to PITCHER & MANDA, Short Hills, N. J.

WANTED—At once, a florist. Must be quick, and understand general plant business. State age, experience and references. Wages $50 per month. Address SEATTLE FLORAL CO., Seattle, Wash.

WANTED—A man to work in truck and flower garden—commercial place. Must have fair knowledge of both businesses. Must come well recommended for honesty, sobriety and industry. Middle aged man of family preferred; American or English speaking German. Lock Box 801, Paris, Ill.

FOR SALE—150 feet frontage, 164 feet deep, only 4 miles from Chicago, Ill., with three greenhouses in full stock, and a neat six room cottage. Apply for particulars, O F, care American Florist.

FOR SALE—Nine lots, four blocks from public square; small fruits, greenhouse 20x80, hot water, small dwelling. R. R. connections with other towns in six directions. No competition. Three large nurseries near buying many roses. Splendid location for good rose grower. Good reasons for selling. W. W. MORSE, Fairbury, Neb.

TO LET.

The old established florist place opposite Laurel Hill Cemetery, Philadelphia. Plenty of ground. Good nine room house. 30,000 feet of glass. Rare opportunity for man of ability and means. Apply to JOHN WESTCOTT, of Pennock Bros., 1514 Chestnut St., Philadelphia, Pa.

WANTED.

A man of good habits and experience, as gardener and florist, to take charge of the work in the gardens, greenhouses and grounds of a public institution.

ADDRESS **C. L. WHITNEY,**
MUSKEGON, MICH.

FOR SALE—FOUR GREENHOUSES.

Containing 3,000 feet of glass; established 1874; well stocked; water heat with good boiler; all in good repair. Cut flowers a specialty—ready sale for them. Large dwelling house, nearly new, on same ground; all located three blocks from State Capitol. Buyer can step into well running business. Reasons for selling: poor health and advanced age. For terms apply to

FRED. SCHEIBEL, 402 E. Wash. Ave., Madison, Wis.

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Put up in $5, $10, $15 and $25 lots, suitable for any occasion.

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" Perle, Sunset	6.00@ 8.00
" Mermets, Brides	8.00@10.00
" La France	10.00@12.00
Carnations, short	1.25@ 1.50
" long	2.00@ 2.50
Harrisii, Callas	16.00
Violets	1.00@ 1.25
Valley, Romans, Tulips	4.00
Daffodils	6.00
Marguerites	1.50
Nasturtiums	1.00
Freesia	2.00
Smilax	12.00
Adiantums	1.50

	NEW YORK, Feb. 9.
Roses, Gontiers, Perles	4.00@ 6.00
" Mermets, Brides	8.00@10.00
" Cusins, Watteviles	8.00@10.00
" La France	8.00@15.00
" Beauties	50.00@100.00
" Niphetos	4.00@ 5.00
Valley	2.00@ 4.00
Tulips	2.00@ 3.00
Daffodils	4.00@ 6.00
Narcissus, small	2.00
Callas	10.00@12.00
Harrisii	12.00@15.00
Carnations, Violets	1.50@ 2.00
Freesia	2.00
Cattleyas	50.00
Smilax	12.00
Adiantums	1.50

	PHILADELPHIA, Feb. 9.
Roses, Brunners	60.00
" Laings, Beauties	30.00@35.00
" La France, Albany	10.00
" Mermets, Brides	8.00
" Bennetts, Hostes	8.00
" Cusins, Watteville	6.00@ 8.00
" Perles, Niphetos	5.00
" Gontiers	4.00
Carnations	1.50@ 2.00
" Wilders	2.00@ 3.00
Mignonette, Romans	2.00@ 4.00
Freesia	1.50@ 2.00
Tulips	5.00
Violets	1.25
Valley	4.00@ 5.00
Smilax	15.00

	CHICAGO, Feb. 9.
Roses, Am. Beauties	15.00@25.00
" Mermets, La France	5.00@ 8.00
" Albany, Bride, Waban	6.00@ 8.00
" Bennetts, Dukes	5.00@ 8.00
" Perle, Niphetos	4.00@ 6.00
" Gontiers	3.00@ 6.00
" Bon Silenes	3.00
Carnations, short	.75@ 1.50
" long	1.50@ 2.00
" " fancy	3.00
Romans, Narcissus, Valley	3.00@ 5.00
Callas, Harrisii	12.50@15.00
Violets	1.00@ 1.75
Smilax	15.00@20.00
Adiantums	1.25@ 1.50
Tulips	3.00@ 5.00
Daffodils	4.00@ 6.00
Freesia	3.00

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SPECIALTIES.
The new rose WABAN, American Beauties, La France, Albany, Madame Hoste, Mermet, Brides, Watteville and Cusin.
— ALSO —
Dealers in the very earliest and finest FANCY CHRYSANTHEMUMS.
Return telegrams sent where orders or parts of cannot be procured in our market.
SEND FOR PRICE LIST.
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YOUR
Trade price list for the Spring o 1892 will go to every florist, nurseryman and seedsman in North America if placed in the advertising pages of the special
SPRING
Number of the AMERICAN FLORIST, to be issued March 10, and it will cost a good deal less money than a list printed and mailed by you. To reach the whole
TRADE
The postage on a list mailed by you would alone be twice as much as our whole bill for printing and mailing. And when printed in the pages of the FLORIST your
LIST
Is sure to be preserved and escape the waste basket, which is a great advantage these days when trade lists are scattered around so thickly. Your list in a full page of the FLORIST will cost only $42; in a half-page, only $21. We can save you money and give you better service.
AMERICAN FLORIST CO.,
54 La Salle Street, CHICAGO.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

Self Blanching Celery.

We have a great deal of troublesome correspondence regarding Golden Self Blanching Celery, arising from the fact that it is not properly understood either by the seed trade or the celery grower.

It is a hybrid and seems to vary considerably in different seasons, on different lands and locations, but it is well known that there is a certain proportion of green plants in it—always was and probably always will be. The fewer green plants there are the more preferable it is, but if the green is entirely selected out and only the golden allowed to seed the constitution of the plant is very much impaired and the result is a very fine small delicate plant, but not enough of it and of a very poor keeping quality. The great reason why there is so much fault found with it on account of "too much green in it" is caused in this way: When the seed is sown in the seed bed the green has the largest seed with much the most vitality, grows first and strongest, making a much better looking plant than the golden does. When transplanting time comes it is quite natural to select out the strongest and best plants, plant them and destroy the weak ones; the result of this is, in those strong plants you get ten times the proportion of green that you would if *all* the plants were transplanted and the small weak plants that are destroyed are nearly *all* golden, hence the cry "too much green in it." AN OLD SEED GROWER.

Trade Looking Up.

mt vernon ind
desenBer the 3 1891

a s Blant
sir

I sow your advetise in the may flour wher yo wod send your Book to eney one dealing in flours yo pleas send me one i Will sell grait meney flours and Want some one to supply me pleas send at once direct to mrs A. B. miller
mt vernon india.

"Cum Grano Salis."

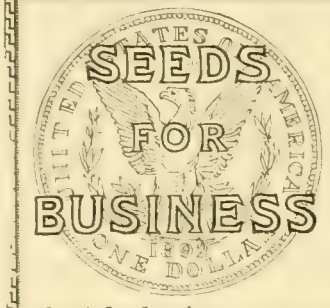
I do not dispute the opinion of Brother Blanc, the "Eminent Horticulturist," in regard to the keeping qualities of the "Picture Rock Tomato," but I think tomatoes are always improved "with a grain of salt." Don't you? A. BLANC,
Horticultural Engraver.

Red Ants.

Can some reader of the FLORIST give me a sure plan for killing red ants (the large kind)? I have them in the conservatory and cannot get rid of them, although I have tried everything I know of.
F. G.

POTASH SALT.—Will some reader of the FLORIST tell me where I can buy the potash salt which is used in fertilizers?
E. B.

WHEN you write an advertiser tell him that you saw his advertisement in the AMERICAN FLORIST.



THERE are all sorts of seeds. Some are good to look at; some to sell; some to experiment with, and see what the fruit will be like—if they grow. Our seeds are for **BUSINESS.** They are seeds to raise money. You don't "try them,"—we have tried them. We sell what it **PAYS** to plant.

Don't you need a list of such seeds? Our "**Money Grower's Manual**" is solid meat,—all doubtful kinds left out. If you plant for business, you must have it. FREE, if you send two 2c. stamps for postage, and mention **The American Florist.**

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WE TELL THE **TRUTH** about Seeds. We will send you Free our Seed Annual for 1892, which tells THE WHOLE **TRUTH.** We illustrate and give prices in this Catalogue, which is handsomer than ever. It tells NOTHING BUT THE **TRUTH.**



Write for it to-day. (P. O. Box 1086)

D.M. FERRY & CO., Detroit, Mich.

BUY NORTHERN GROWN SEEDS

SALZER'S **FAIRY PANSY**

This strain is the acme of perfection. Nothing that we can say can give you any adequate idea of their beauty and splendor. It is the strain for the Florists. My catalogue contains a colored plate of same. Note low price to florists.

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Pkg., 12½c; ¼ oz., 50c; ½ oz., $1.75; one oz. $3.25; ¼ lb., $12; 1 lb. $32; Choice Lycopodium Moss, $2 50 per 100 lbs. Elegant Catalogue 5c postage.

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Everything appertaining to the **Farm** and **Garden** of the best and choicest quality. **PRICES RIGHT.**
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Special attention given to
Seed Bags and Catalogue Envelopes.
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WHY You Should Grow Mushrooms.
Because they are the most profitable crop for the outlay that can be grown and may be grown without interfering with other crops. The market is sure, the supply never having been equal to demand.

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During the Winter and Spring months, the first planting in August or September with successional planting until April.

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Under the greenhouse benches, on the greenhouse benches among growing crops, in Rose Houses, in frames in the greenhouse, in cellars, stables or outhouses, in the open field or in mushroom houses.

HOW You Should Grow Mushrooms.



First get spawn that will grow. It must be fresh, well spawned, and in good condition. **Gardiner's Celebrated English Mushroom Spawn** is the best, and is always fresh and reliable. The details of culture are given concisely in our treatise, **"Mushrooms for the Million,"** Mailed free. **Falconer's "Mushrooms and How to Grow Them."** Published at $1.50. (Gardiner's price $1 35 post free.) **Robinson's "Mushroom Culture,"** 50 cts. postpaid.

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Fresh English Stock.
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Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.
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Rooted Cuttings of the three leaders in the Boston market, TIDAL WAVE, SILVER SPRAY, and PORTIA; extra fine stock at lowest prices.
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The stock offered this season is of the same quality distributed by us last year and includes all the leading and popular varieties. Parties contemplating stocking up for spring sales will do well to place their orders at once, as plants are now dormant and can be shipped without any soil at reduced Express and Freight rates.

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Baron de Bonstettin, Mons. Boncenne,
Baroness Rothschild, Paul Neyron,
Fisher Holmes, Prince Camille de Rohan,
Gen. Jacqueminot, White Baroness,
La France, Queen of Queens,
Mabel Morrison, Ulrich Brunner,
Mme. Gabriel Luizet,

$12 per 100; $110 per 1000.

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A fine lot of MARECHAL NIEL ROSES with canes 10 to 12 feet long, pot grown, very strong, $1.00 each.

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READY FOR
Immediate Delivery,
30,000 LOW BUDDED ROSES.

Ulrich Brunner, Baroness Rothschild.
Magna Charta. Persian Yellow.
Mme. Gabriel Luizet. La France, Etc., Etc.
$10 per 100; $90 per 1000.

Gen. Jacqueminot, 2 years old, own roots $12.00 per 100.

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ROSES.

FINEST STOCK FOR FORCING IN THE NORTHWEST.

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You can save dollars by printing your spring trade list in the AMERICAN FLORIST.

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Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
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A Good INVESTMENT
FOR NEXT SEASON.
Sup-plant Mermets: plant HUGHS.

THE HUGH may be seen growing at the

SUNNYWOODS GREENHOUSES,
AT CHATHAM, NEW JERSEY.

CIRCULARS ON APPLICATION.
Address **FRANK L. MOORE.**

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Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

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A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.
The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.
Trade list mailed on application.

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Louisville, Ky.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.
Price Lists to applicants. Address

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100 good plants Roses suitable for forcing, Mabel Morrison and Baroness Rothschild.
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Wicharaiana Roses. Every lover of plants must have these and other Novelties which we shall have ready for delivery in April. Descriptive catalogue of these and of an unsurpassed stock of Trees, Roses, Rhododendrons, Rare Conifers, Choicest Perennials, etc., sent free.

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5,000 1 year old, 2½ to 3 feet high, well branched, $15.00 per hundred.
1,500 2 year old, 3 to 4 feet high, $18.00 per hundred.

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A FEW POINTS ABOUT OUR NEW DIRECTORY.

POINT 1.—The new book will contain an accurate list of those in the trade on the Continent of North America, January 1, 1892.

POINT 2.—In addition to the above it will contain the statistics of the Florist, Nursery and Seed Trades from the last census.

POINT 3.—It will also contain a complete list of all National and Local Trade Organizations, with just the information about each that you want to have convenient for reference.

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The Violet Disease.

I find the only sure remedy for the violet disease to be air-slaked lime. A number of people whom I have told to use it report most beneficial results. I even go so far as to pour strong lime water on the plants, even when buds are formed.

Baltimore. L. R. WOOLEN.

Bedding Geraniums.

Which is the best red flowered dwarf, and which the best half-dwarf, geranium for bedding purposes?

Also which is the brightest and best achyranthes? L. BONNOTT.

Flemington, N. J.

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WASHINGTON, D. C.—Recently a novelty in these parts formed part of the floral offerings at the funeral of one of our letter carriers. His associates had a tablet made of white carnations in the shape of an envelope some thirty or more inches long. On this was the deceased's name and address in small purple lettering and in the upper left hand corner, well executed in tiny immortelles, a U. S. two cent postage stamp, the head of Washington being in white, and the ground work in bordered carmine; the work of C. F. Hale.

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:

25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other

PLANTS FOR FORCING AND DECORATING.

Address **P. OUWERKERK,**
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FLORISTS who take orders for **Hardy Rhododendrons, Azaleas, STANDARD ROSES**, and other Shrubs and Trees, should write or call at once on

FRED. W. KELSEY, 145 Broadway, NEW YORK.

Mention American Florist.

New Double White Daisy Snow Crest.

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A most distinct variety and an improvement on all existing sorts. Its habit of growth and size of flowers, in comparison with older varieties, is gigantic. The flowers, which are borne on stout, stiff stems from 6 to 10 inches long, are of the purest white and full to the center. When fully developed they rise to a conical or sugar-loaf form, and well grown specimens will cover a silver dollar.

It makes an admirable hardy garden plant or may be forced for cut flowers under the same treatment as violets. $2 per doz.; $15 per 100.

Dreer's Quarterly Wholesale List now ready; mailed free to the trade on receipt of business card.

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—OF—

White Asters, Giant Market and Fancy Pansies, New Dwarf White Stocks and Giant Candytuft.

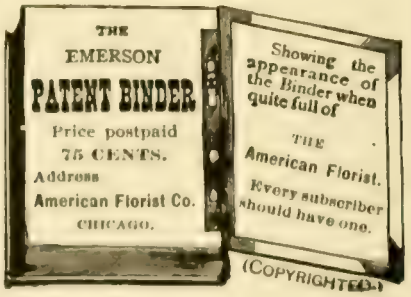
Trade packets of any of the above at $1 00 each

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NEEDHAM, MASS.

CLEMATIS.

Strong heavy plants.....doz. $4.00
Lighter, equal to imported..... " 3.00
ROSES—H. P. 2 year, own roots, choice kinds.....per 100 $10.00
DAHLIAS—50 vars., whole roots, proved sorts.....per 100 $8.00

F. A. BALLER, Bloomington, Ill.



Special Attention.

First Importation of the Season of 100,000 pounds of

CYCAS REVOLUTA,

in sizes from 6 inches to 6 feet, **guaranteed to be the only TRUE LONG-LEAVED VARIETY,** which for beauty in foliage is far excellent to any of its kind; fast becoming a most favored Palm, highly recommended by most leading nurserymen and florists.

By weight, fronds and roots cut off.

Price, not less than per 100 lbs. $10.00. Per 1000 lbs. $85.00, f. o. b.

Extra inducements on larger lots.

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Send orders for **RHAPIS FLABELLIFORMIS.** Delivered from Feb. 1st.

Per 100 shoots, from $25.00 to $40.00.

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SMILAX, 2½-inch pots	$1.50	$12.00
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GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "**DORINDA,**" a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

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AURORA.

Winner of the Ladenburg Cup for best pink

CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

Send for general price list.

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PURITAN.

NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:

Rooted Cuttings.....$8 per 100; $70 per 1000
From 2¼-inch pots, $12 per 100; $100 per 1000.

Send for catalogue with full description of this and other varieties.

WOOD BROTHERS, Fishkill, N. Y.

NOTICE.

WHEREAS, Parties in the trade, contrary to agreement and general understanding, and in violation of the principles of business honor and integrity, are offering, and selling, rooted cuttings of Lizzie McGowan Carnation at a much less price than they agreed to so offer and sell the same. And

WHEREAS, I have the largest, finest, and healthiest stock in the country of this superb carnation, therefore, be it

RESOLVED, That hereafter my price for fine, strong well rooted cuttings of this valuable pure white **LIZZIE McGOWAN** Carnation will be $20.00 per thousand, and five hundred at thousand rate.

H. E. CHITTY.

Paterson, New Jersey, Feb. 10, '92.

Carnation Cuttings.

NEW AND STANDARD SORTS.

SEND FOR PRICE LIST.

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P. O. Box 226. **KENNETT SQUARE, PA.**

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN,** besides the best novelties and a full list of standard sorts.

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DO YOU

GROW CARNATIONS?

If so, send for a complete list of the best varieties in the market, including DAYBREAK.

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ROOTED CUTTINGS.

About Feb. 15th, I will have some **50,000** good, well rooted cuttings of MRS. FISHER CARNATION, at $12.50 per 1000; $1.50 per 100.

For next winter's crop of white flowers I will plant nothing but LIZZIE McGOWAN and MRS. FISHER. ***(The proof of the pudding is in the eating).*** How many shall I book you for?

Price list of other sorts on application. Large stock of GERANIUMS.

L. B. 338. **ALBERT M. HERR, LANCASTER, PA.**

BEST QUALITY ROOTED CUTTINGS

GET MY LIST BEFORE YOU PURCHASE.

CARNATIONS.

Finest NOVELTIES of the year, and best Commercial varieties.

ALEX. McBRIDE,
ALPLAUS, N. Y.

COLEUS.

Best assortment in the country. All the good Bedders.

VERBENAS.

Best Mammoth Strain, $10.00 per 1000; $1.25 per 100.

GERANIUMS, March Delivery only.

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NOW READY. UNSURPASSED IN QUALITY.

Golden Gate, grandest new pure yellow; J. R. Freeman, fragrant crimson scarlet; Constancy, glowing bright scarlet; $3.00 per 100; $25.00 per 1000. We have a fine stock of these.

Wm F Dreer, magnificent fringed rose pink; Nellie Lewis, light pink streaked with darker hue; $3.00 per 100; $25.00 per 1000.

IMPROVED Grace Wilder, the standard pink shade; $2.00 per 100; $15.00 per 1000.

Price of all other standard varieties on application. For well established plants from small pots see illustrated catalogue, mailed free.

Best home grown Double Excelsior Pearl Tuberose bulbs, $8.00 per 1000 by express.

CHAS. T. STARR, Avondale, Chester Co., Pa.

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Portia, Robert Craig, Grace Wilder and Hinze's White, $1.50 per 100
Tidal Wave, $2.00 per 100.
Lizzie McGowan, $3.00 per 100.

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Place your Orders at Headquarters for **"Grace Darling,"** **THE LEADING NEW PINK CARNATION of '92.**

Received First Premium at Penna. Hort. Society, Philadelphia. And Awarded Certificates of Merit and Honorable Mention at New York, Boston, and Baltimore.

Growers of Carnations exclusively, send for general price list.

CHAMBERS BROS., Toughkenamon; Chester Co., Pa.

50,000
ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.

Also an unlimited quantity of pips of the above varieties. Send for price list.

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25,000 ROOTED CUTTINGS
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NOW READY.

New and Standard sorts, all grown from fine healthy stock. Send for price list.

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WHY NOT GROW THE BEST?
CARNATIONS,
VERBENAS, DAHLIAS, CHRYSANTHEMUMS, HYDRANGEAS, COLEUS, ETC.

Illustrated catalogue of rooted cuttings and plants mailed on application.

26 Floral Ave. **VICK & HILL, Rochester, N. Y.**

The beautiful PINK CARNATION NELLIE LEWIS our Specialty.

CARNATIONS

Rooted Cuttings, 50,000 now ready of the following varieties:

Silver Spray, Hinze's White, Mrs. Fisher, Jeannette, Portia, Grace Wilder, Fred Creighton, Anna Webb, and Century,

$1.00 per 100; $10.00 per 1000.

Hector and Florence, $2.50 per 100, American Flag, $2.00 per 100.

Fuchsias, finest varieties	$ 1.50 per 100
Heliotrope	1.00 "
Ageratum dwarf white and blue	1.00 "
Petunias dbl. white and variegated	2.00 "
Bouvardia double pink and white, stock plants	10.00 "
Pansies from seed bed, extra fine	5.00 per 1000
Daisies	3.00 "
2000 field grown Jack Roses	10.00 per 100

Cash with order. 10 cts. per 100 extra when ordered shipped by mail.

JAMES HORAN, Florist,
BRIDGEPORT, CONN.

CARNATIONS.

Send for trade list of ROOTED CUTTINGS.

J. J. STYER, CONCORDVILLE, PA

Delivering Plants in Cold Weather.

Mr. J. T. Anthony, Chicago, who does a good deal of plant decorating, has a wagon fitted up in such shape that he can deliver plants in almost any sort of weather.

The box of the wagon is eight feet long by three feet eight inches wide and supplied with a wooden cover five feet high. A heavy curtain divides the driver's seat from the rest of the interior and the back is closed with a wooden shutter, but there is a curtain inside the shutter. The object of the curtain is to always keep the interior partially enclosed even when the shutter is open. When a plant is taken out it is drawn out from under the curtain, which immediately falls back into place.

In very cold weather all the inside surfaces of the cover are hung with carpeting provided for the purpose, which is suspended from hooks placed along the top of each side. The curtains at front and rear are also hung with the carpet. This is to prevent any part of the plants from coming into direct contact with the cold wagon cover. The bottom of the wagon is also covered. Before the plants are loaded the wagon is first well warmed by jugs of hot water placed therein and fresh jugs of the same are used to keep up the heat afterward. With two 3-gallon jugs of hot water in the wagon he can safely transport decorative plants any ordinary distance in usual winter weather and with six jugs of this size he can safely take out plants in the coldest winter days we have.

J. H.—We have received a note from the National Metal Edge Box Co., 623 Cherry street, Philadelphia, saying they can supply your wants.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Verbenas

FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30 00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	3.00	25.00
" " Rooted Cuttings	1 00	8 00
H. P. Roses, 2 years old, dormant	10 00	
Fine stock, 3-inch, Forcing Roses	8.00	75 00
SPECIALTIES IN ROOTED CUTTINGS.		
Coleus, old standard and new fancy sorts	1.00	8 00
Feverfew (Little Gem), extra strong	2 00	15.00
Salvia splendens, extra strong	1.50	12 00
Moon Vine	2.00	
Ageratum, blue and white	1.25	10.00
Achyranthes Emersonii, etc	1 00	
Heliotrope, light and dark—no rust	1.50	12.00

WOOD BROTHERS,
FISHKILL, N. Y

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For HEDGING. $5.00 per 100.

AZALEA AMŒNA

$3.00 per dozen. All kinds of

Ornamental Nursery Stock.

Send for Descriptive Catalogue and Wholesale List.

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Small Stock for the Million.

An opportunity seldom offered. Some 60,000 trees, shrubs and vines, offered at dead low prices to close the business. Not less than one dollar's worth sent out.

Send for circular.

P. H. FOSTER, Babylon, N. Y.

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DREER'S

Mammoth Verbena Seed.

NEW CROP NOW READY. Choicest mixed varieties in the brightest colors. Per trade packet 50 cts.; 1-4 ounce, $1.00; per ounce, $4.00.

The strain we offer this year is far ahead of that sold last season with such satisfactory results. Only the richest colors have been retained, and the largest flowers selected for seed. Seedling plants are now preferred by the leading florists for spring sales because of their vigor and freedom from rust. With this strain to depend on there can be no doubt about the success.

DREER'S DOUBLE HYBRIDIZED PETUNIA SEED, so well known to the trade for the past 30 years constantly improving by judicious hybridizing. Trade pkt $1.00; small paper 15 cts.

DREER'S SINGLE GRANDIFLORA MOTTLED AND STRIPED PETUNIA. This strain will give splendid results in pot culture, as well as open ground. It is rich in colors and markings, and of largest size. ⅛ ounce, $2 50; trade packet, 75 cts.

Cobea Scandens.....per oz. 75c. Centaurea Candidissima, per oz. $2; per 1000 seeds, 50c.
Smilax Seed, per lb. $8 " 60c. Gymnocarpa, " 50c. " " 30c.

Quarterly trade list of Seeds and Plants mailed to the trade, free.

HENRY A. DREER, Philadelphia.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

—NO RUST OR MILDEW.—

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

C. H. JOOSTEN, IMPORTER, 3 Coenties Slip, NEW YORK.

ORDERS NOW BOOKED FOR SPRING IMPORTATION FOR

HARDY ROSES, CLEMATIS, AZALEAS, ETC. from the Boskoop, Holland, Nursery Association.

Also NURSERY AND FRUIT TREE STOCKS from LENAULT HUET, USSY, FRANCE.

Catalogues on application.

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ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.

CARNATIONS, CHRYSANTHEMUMS,

Coleus, Tuberous Begonias,

Geraniums and Fuchsias.

JOHN McGOWAN, Orange, N. J.

FRECH CANNAS

STRONG ROOTS

In assorted varieties and colors, at $8.00 per hundred.

E. W. WEIMAR, Mt. Vernon, N. Y.

Have your spring trade list printed on this page. We will circulate it to 5,000 buyers, and the whole cost will be less than the postage would be on the same number mailed by you.

JULES DE COCK, NURSERYMAN,

Ledeberg, Ghent, Belgium.

Large culture of Araucaria excelsa, Aspidistra with green and variegated leaves; Azalea Indica, Mollis and Pontica; Laurus nobilis with heads and in pyramids; Palms in all sizes, etc., etc.

Mention American Florist.

ROOTED CUTTINGS.

—o—

ALTERNANTHERA P. Major and Aurea Nana, 50 cts. per 100.

AGERATUM White Cap and Cope's Pet, 50 cts. per 100, by mail prepaid.

OTHER STOCK LATER.

Don't order more PETUNIAS and VERBENAS until quoted here.

S. O. STREBY,

Lock Box 77. *UPPER SANDUSKY, OHIO.*

Mention American Florist.

ROSES, CARNATIONS, VIOLETS,

Bouvardias, Chrysanthemums, double white and single Primroses, Echeverias, Alternantheras, Smilax, Coleus, Begonias Poinsettias, Cyclamens, Adiantums, Geraniums, Fuchsias, Pandanus Veitchii, Ferns, Hydrangeas, Palms, Draciænas, etc. Healthy plants; large stock, and low prices. Best new and old varieties. Write for price list.

HENRY SMITH,
130 Monroe St., GRAND RAPIDS, MICH.

CHRYSANTHEMUMS.

The following new and choice varieties, strong pot grown plants: Eda Prass, D. Cannell, Ivory, Jessica, Frank Thompson, Mrs. J. Westcott, La Perle de Sales, Pandanus, E. D. Smith, Victor, Patallier, W. Tricker, V. H. Hallock. The set, $2 00, free by mail for cash. Four sets, or 50 plants, $5 00.

WM. TRICKER, Dongan Hills, (S. I.) N. Y.

New and Rare Plants

INDISPENSABLE FOR ARTISTIC DECORATIONS.

We offer an elegant and well assorted stock of **DECORATIVE PLANTS**, consisting of

ALOCASIA METALLICA.
Hitherto very scarce. We have a fine stock.

PANAX VICTORIAE.
Large stock of this fine foliaged novelty.

ANTHURIUMS, Flowering.
Brilliant and effective plants. We are headquarters for these favorites.

ANTHURIUM, Foliage Sorts.
Many fine varieties, including A. crystallinum and A. grande.

BROMELIADS.
Many beautiful kinds; fine stock, and all sizes.

DIEFFENBACHIA, in Varieties.
No finer stock in the country, and the very finest sorts.

Also a full and complete list of fine things for the florist. See our TRADE CATALOGUE, NOW READY.

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New, Rare and Beautiful Plants, ORCHIDS, ETC.

A collection of the most beautiful Fancy Caladiums ever offered; with the Newest and Rarest Hothouse and Greenhouse plants, carefully grown, and at low rates.

ORCHIDS—A very extensive collection: East Indian; Mexican; Central, South American etc

Hardy Perennials, Roses, Clematis, Pæonies, Phloxes, etc.

New and Rare Standard Fruits; Rare and Beautiful Trees and Shrubs, Evergreens, etc.

Catalogues on application.

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ORCHIDS.

The finest stock in the **WORLD.** Nearly five acres devoted to their culture.

SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.

Orchids.

Established and Fresh Imported—Specially Cattleyas; very useful for cut flowers, at greatly reduced prices.

Best quality of Orchid Peat. Write for price list.

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P. O. Box 322. **SOUTH ORANGE, N. J.**

Rooted Cuttings.

CARNATIONS, CHRYSANTHS, GERANIUMS, COLEUS, VERBENAS and MISCELLANEOUS BEDDING PLANTS. Cheap for cash. Send for price list.

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Eulalia japonica zebrina, } Very large
Eulalia japonica variegata, } clumps, 25c.

FANCY LEAVED CALADIUM BULBS, best tropical bedding plant. Dry bulbs 5 to 10 inches in circumference, 10 to 25c. Sample by mail.

F. J. ULBRICHT, Anniston, Ala.

CLEARANCE SALE.

To clear out our **LARGE SURPLUS STOCK** of Bulbs we offer up to April 1st,

FREE DELIVERY TO ANY PLACE.

	Per 100	Per 1000
Auratums, 7 to 9	$ 6.00	$50.00
" 8 to 10	7.00	60.00
" 10 to 12	8.00	70.00
" Monster	10.00	

	Per 100	Per 1000
Rubrum, fine bulbs	$ 8.00	$70.00
Album, fine bulbs	10.00	90.00
Longiflorum, **Monster,** 9 to 12 in.	8.00	70.00

Remember we pay Freight Charges.

CYCAS REVOLUTA STEMS. **BONA FIDE STOCK.**

Refer to the best firms in the U. S. for whom we have imported thousands of pounds for 8 years.

TREE FERN STEMS, roots and fronds cut off. **ARAUCARIAS,** in sorts.

JAPAN MAPLES. **FLORISTS. TRY THEM** Nothing more unique than their beautiful foliage for floral work and decorations.

Tree Pæonias, single and double; **New Herbaceous Pæonias; Iris Kæmpferi; Hardy Magnolias; Fresh Palm Seeds.** Time to make up orders for **Calochortus, Brodiæas, Fritillarias, etc.**

SEND FOR CATALOGUE.

ESTABLISHED 1878. **H. H. BERGER & CO.,**
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TUBEROUS BEGONIAS, Seeds and Bulbs.

Our own grown Superior Strains.

TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

TESTED SEEDS of VICTORIA REGIA and all other WATER LILIES.

FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

ROSE HILL NURSERIES. **SIEBRECHT & WADLEY, New Rochelle, N. Y.**

TUBEROUS BEGONIAS.

NOW IS THE TIME TO SOW SEED.

SINGLE OR DOUBLE MIXED.....trade pkt. $1.00
SINGLE TO COLOR (9 colors $4.00)..... " .50

Half packets if desired. Send for new descriptive catalogue.

F. J. MEECH & SON, Charlevoix, Mich.

Rooted Coleus.

YEDDO—Center of leaf emerald green, margined by band of yellow, changing to white, veined with crimson.

If you have never tried Yeddo for bedding you don't know what you have missed. I have used it three summers and like it better every year. As a bedding Coleus it surpasses all other green or white varieties. It will pay you to order a few cuttings. It does not cost any more than the other kinds.

My stock of Golden Bedder, Verschaffeltii and Golden Verschaffeltii is very large, and I am prepared to supply in quantity at low prices.

SEND FOR PRICE LIST.

S. B. FIELD, ROSELLE, N. J.

TUBEROUS BEGONIA SEED.

Single Monarch Flowered. Flowers measure 4 to 5 inches in diameter; brilliant scarlet and bright pink; extra fine. Per trade pkt. 50 cts.

PANSY, MAMMOTH SUNBEAM. A grand collection of giant-flowering varieties; flowers measure 2½ to 3 inches in diameter, of perfect form and finest colors. Trade pkt. 25c., 3 pkts. 60c., 6 pkts. $1.

JOHN F. RUPP, Shiremanstown, Pa.

EXTRA CHOICE FLOWER SEEDS.
List free on application.
FRED. ROEMER, SEED GROWER
QUEDLINBURG, GERMANY.

Tuberous Begonias.

We will have ready March 15, Seedling plants of above in colors, red, pink, salmon, yellow, white, at $3.00 per 100. Mixed, $2.50. Double ones later, at $5.00 per 100. Separate colors, finest strains.

Tubers all sold, except red and some double ones of all the colors, only few whites.

HYDRANGEAS, CALLAS, 3-in. Cheap.

BRAUER & RICHTER, McConnelsville, Ohio.

10 SORTS COLEUS at.....$1.00 per 100
MRS. FISHER CARNATIONS...$1.00 per 100
Roo'ed Cuttings of the above.
GREVILLEA ROBUSTA, 2 ft. high, $4.00 per doz.; 2-inch pot plants, $5.00 per 100.

JNO. D. IMLAY,
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BEGONIA AND CHOICEST CHRYSANTHEMUM SEED, 25¢ PER PKT. "LIST FREE" T.H. SPAULDING, ORANGE, N.J.

Ipomœa Pandurata.

(New hardy day blooming Moon Flower)

Large roots, per mail, 50 cents per dozen; per express, $3.25 per hundred.

C. M. RASOR, Greenville, Ohio.

Lathyrus Splendens.

I have noticed that many seed firms in the east offer in their catalogues seed of "Lathyrus splendens," though I dare say that none of them have ever seen a plant of it in bloom; but had they, I believe they would appreciate this magnificent novelty.

During the summer of 1889 I obtained the seed of a plant in its native place, not knowing at the time what it was. I sowed the seed the winter following, and by the spring of 1891 I had a plant ten feet high, and during its blooming period it was a sight not easily forgotten. The large racemes, each bearing from seven to eleven flowers of marvelous beauty, thickly covered the plant.

The flowers in a bud state are of a white and rose color mixed, but when expanded the color is true throughout, being nearly the color of a Reine Marie Henrietta rose and nearly the size of a sweet pea. As the flowers get old the color changes to deep claret, with a beautiful satiny surface like that seen in some dark crimson roses, and finally to almost a purple, when the flowers drop off.

The plant is truly perennial, growing in size each year, and besides it has the quality of standing heavy frosts with impunity. My own plant is now fifteen feet high, about to bloom, and to all appearances more profusely than last year.

Los Angeles, Cal. F. H. H.

Insects and Root Knot.

Can any reader of the FLORIST tell me how to get rid of a small white insect, not quite so large as an aphis, that lives in the bench material and underneath the plank walks, and that enters the pots through the drainage holes and seems to live on the roots of the plants? When disturbed it moves very rapidly. The house infested is filled with ferns, palms, crotons and begonias.

Also, would like information how to prevent and cure the root knot disease that attacks Rex and other begonias. This is very prevalent in the south. The plants will grow on till June and then die, after looking sickly for some time.

Biloxi, Miss. W. KEHLOR.

BEGONIAS

ARE THE

LEADING LINES NOWADAYS.

I can send you from my unrivalled collection per **sample mail** free:

6 superb singles, distinct colors, for	$1.00
6 ditto doubles, for - - - -	2.00
Large packet seed of prize singles,	1 00
Half packet, - - - - -	.50

Price list and pamphlet on culture, gratis.

JOHN R. BOX, BEGONIA GROWER,
CROYDON, ENGLAND.
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PARSONS & SONS CO. (LIMITED)

FLUSHING, N. Y.
OFFER WELL BUDDED SPECIMENS OF

CHINESE AZALEAS.

Fielder's White, for forcing,	15 to 18-in. 25c
" " "	18 to 24-in. 35c
" " "	strong 50c
Colored, well assorted.....	10 to 15-in. 25c
" "	12 to 15-in. 35c
" "	strong, 15 to 18-in. 50c
" "	extra, 20 to 24-in. $1 to $1.50

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TIMOTHY HOPKINS,

MENLO PARK, San Mateo Co., CALIFORNIA.

CARNATIONS, ROSES, VIOLETS, CHRYSANTHEMUMS AND CUT FLOWERS.

SWEET PEA SEED A SPECIALTY.

HARDY PLANTS BY THE MILLION.

NO DOUBT ABOUT IT. ACRES AND ACRES OF THEM.

Pæonies, Pæonies; SUCH Pæonies! And PYRETHRUMS. If you could **only** see them. The very, very choicest collection in the **world** and far and away the largest. As for **GLADIOLI;** well, everyone **this** side the water knows we're the people for them; we want you to recognize it too! Our named sorts and seedlings—for exhibition—oh! the colors. 25 acres of these. 15 of Pæonies. Catalogues all ready. Every thing you want to know about in them. Seeds, Plants, Bulbs or anything. Our things have a knack of growing, too!

57 GOLD AND SILVER MEDALS, LONDON AND PARIS.

KELWAY & SON, LANGPORT, ENGLAND.

For Spring Potting.

The best time to pot off small Palms and Foliage Plants is NOW, and they will then be ready to fill houses with for summer, after bedding plants are cleared. Cheap plants as follows:

	Per 100
Aralia Sieboldi, 2-inch pots.....	$10.00
Pandanus utilis, 2-inch pots.....	10.00
Areca lutescens, 2-inch pots.....	10.00
Dracæna terminalis, 2-inch pots.....	8.00
Latania borbonica, seed boxes.....	4.00
Cocos Weddelliana, seed boxes.....	8.00
Cocos plumosa, seed boxes.....	8.00
Asparagus plumosus, 3½-inch pots.....	40.00
Begonias, tuberous, single, finest flowers, distinct colors.....	10.00
Begonias, tuberous, double, very fine.	20.00

(Begonias are started, but can be mailed for next three weeks)

JOHN H. LEY,
Tropical Nursery, Anacostia. WASHINGTON, D. C.
Mention American Florist.

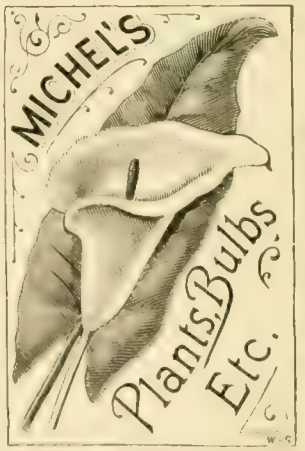
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P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada:

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Fresh Crop Cape Flowers Received,

and ready for prompt delivery; the quality is fine. We can furnish in two grades as follows:

A or PRIME QUALITY, white and very double flowers.....per lb. 90 cts. } with 10 per cent. cash discount equal to { 80 cts. net
AA or EXTRA QUALITY, fine white and large flowering.....per lb. $1.10. } { $1.00 "

AUGUST RÖLKER & SONS, NEW YORK,
136 and 138 W. 24th STREET, or STATION E.

OUR CUT FLOWER BUSINESS

Demands all our growing capacity, we have therefore decided to close out our entire stock of plants this season. We start the ball rolling with the following. Speak quick if you want them:

	Per 100
1000 Dracæna australis, 4-in. 18 to 24 inches high	$20.00
500 ditto, 5 to 8-in. 2 to 3½ ft. high.	50.00
10,000 Tuberous Begonias, from the finest collections in Europe	8.00
2000 Cannas, Crozy's hybrids	5.00
2000 Dahlias, best varieties; clumps	8.00
" " " single roots	3.00
Hibiscus grandiflora, 3-in.	4.00
" " 4 and 5-in.	8.00
English Ivy, 2 to 4 ft. high	8.00
Clematis, all the best vars., large heavy stock, pot grown, in 8-in. pots	60.00
Aucuba japonica, fine bushy plants, 2 to 3½ feet high, well colored, 9-inch pots	$1 each.
5000 Vincas, variegated, fine plants, 4 and 5-inch	8.00
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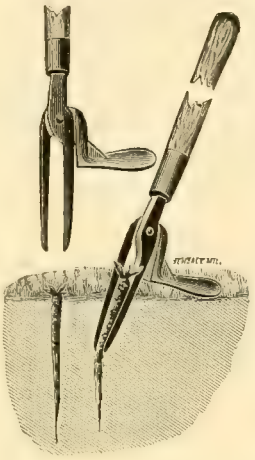
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Foreign Notes.

THE Royal Dutch Horticultural Society proposes to organize an international chrysanthemum exhibition, to be held at Amsterdam next November.

IN New Zealand acacias are grown for economic purposes and they stand 8° to 10° of frost with impunity. A pointer to those who give acacias a stove temperature.

THE nursery business of A. M. C. Jongkindt Coninck, Dedemsvaart, Netherlands, has been converted into a limited liability company under the title "The Tottenham Nurseries, Limited."

THE horticultural press of England is urging upon English horticulturists the necessity of having the horticultural products of Great Britain properly represented at the exposition at Chicago next year.

LOUIS THIBAUT of the firm of Thibaut & Keteleer, died at his residence at Sceaux, near Paris, Jan. 17. He was born in 1817. M. Thibaut was one of the most respected and ablest representatives of French horticulture.

THE English *Gardeners' Chronicle* publishes an engraving of the Horticultural Building for the World's Columbian Exposition in its issue of Jan. 23. *The Gardening World* has also illustrated this building.

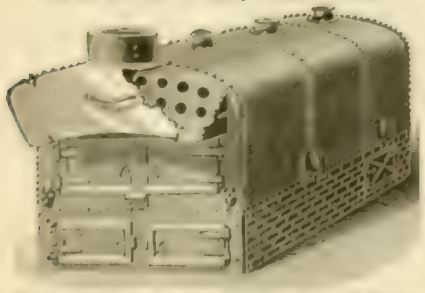
AMONG the numerous horticultural associations in England is the United Horticultural Benefit and Provident Society, which pays weekly benefits to its members in case of sickness. The society now has a membership of 423.

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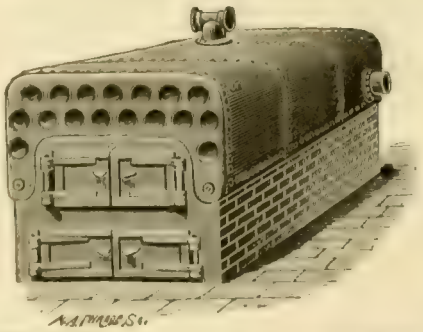
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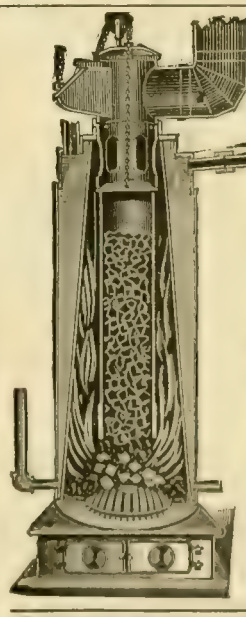


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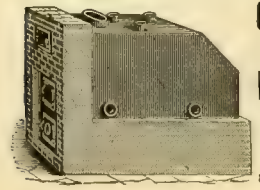


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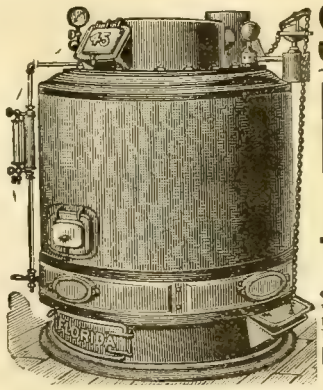
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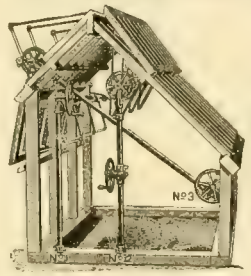
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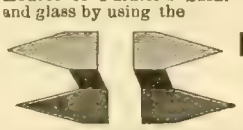
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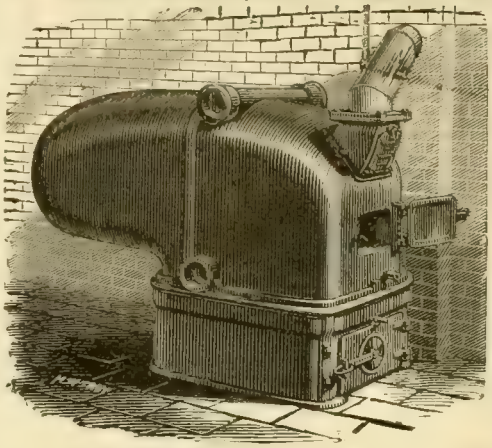
JERSEYVILLE, ILL.—Isaac Spacht has completed a new house to be devoted to a general assortment of bedding plants for this spring but to be subsequently used for growing roses and carnations.

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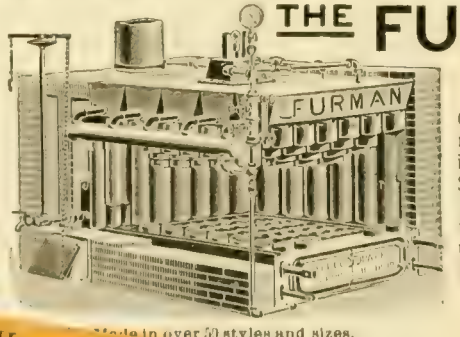
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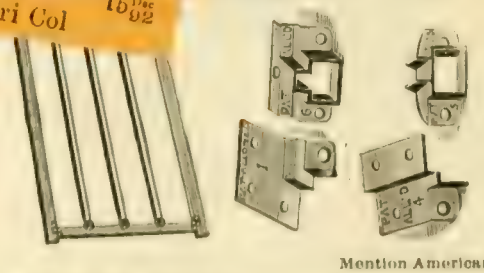
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SOCIETY OF AMERICAN FLORISTS.

JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

AMERICAN CARNATION SOCIETY.

EDWIN LONSDALE, Chestnut Hill, Philadelphia, Pa., president; C. J. Pennock, Kennett Square, Pa., secretary. First annual meeting and exhibition at Buffalo, N. Y., February 16, 1892.

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THE first annual meeting of the American Carnation Society at Buffalo, noted elsewhere in this issue marks an event in the progress of American Floriculture. Pratically an auxiliary organization it has shown an inclination and the ability to go it alone. The time is probably not far distant when similar societies will require like opportunities. The exacting demands made on the time of the members will be too great to permit them to meet with the S. A. F. and do justice to both. We look for separate conventions for the Hail Association, The Protective Association, the Telegraph Delivery and others. Thus it must be with the rapid delelopment of these interests.

SEVERAL valuable carnation papers are unavoidably omitted for want of space. They will appear in our next issue.

First Annual Convention of the American Carnation Society held at Buffalo, February 16, 1892.

The Tiffe House this forenoon was a scene of great activity—a veritable nest of carnation enthusiasts, who were constantly arriving with boxes nearly as long as themselves, and which when opened disclosed marvelous blooms of this divine flower, with stems of unprecedented length. No sooner was the box displayed than scores of heads were closely bunched over it and it was only after Mr. Scott had requested that the room be vacated by all except those with goods to unpack that anything could be done toward arranging the exhibition. There must have been over 3,000 blooms on hand. While being staged the corridors in the neighborhood of the room were taken possession of by enthusiastic members who could talk nothing else except soils, temperatures, burstings, vigor and other matters of vital importance to carnationists.

The regular session of the society was called to order by President Edwin Lonsdale of Philadelphia, about 11:30 a. m., 35 members being present. Mr. Wm. Scott of Buffalo addressed a few words of welcome, extending to the meeting the cordial greeting of the Buffalo Florists' Club. He then thanked the society for having honored Buffalo with their first annual meeting, and expressed the hope that the session would be as profitable as it promised to be enthusiastic. He closed by reiterating the desire of the Buffalo florists to aid the organization as far as lay in their power. Mr. C. W. Ward replied in a few well chosen words of thanks. Mr. Pennock read the minutes of the previous meeting, which were accepted. The address of Pres. Lonsdale then followed.

The question of changing the time of the annual meeting was raised. Mr. R. T. Lombard advocated the month of December. This date was opposed by Messrs. Scott, Fancourt and Dorner. The subject was closed by Mr. Lombard's motion that when the meeting adjourned, that they meet at the annual meeting of the S. A. F. in Washington for consideration. The report of Secretary Pennock showed the membership at the Philadelphia meeting to have been 49, at New York 72 and now 106.

The treasurer's report showed the society to be in a prosperous financial condition with a good balance in the treasury.

A letter from Mr. John Thorpe was read expressing regrets at his inability to be present, but assuring them that he was with them in spirit, and urged liberal encouragement to growers of seedlings, reminding them that we may yet secure a perfectly hardy race of carnations.

W. R. Shelmire's paper, "Do Varieties Run Out," was then read. In a discussion of this, Edward Swayne, who took an opposite view at the last meeting, admitted that he was wrong. Prof. L. H. Bailey believes that simple propagation by cuttings was not a devitalizing process. The fact that certain varieties have run out is true; whether they should not have done so is another question. Some kinds have a weak, unstable character to begin with, and he believes such a tendency to debility is as much a characteristic of a variety as is its color or fragrance. Mr. Lombard differs from Mr. Swayne, and instances varieties that have disappeared; cuttings may not have caused this, but they may have aided it. Mr. Ward and Prof. Bailey discussed evolution, extinction and other points of geological history, but finally decided that the question of whether varieties run out in so many million years was not under consideration. Mr. Scott maintained that cuttings from stubby bottom growth as also those from end shooots are comparatively worthless. Side shoots from flowering stems are his ideal cuttings. Prof. Bailey suggested that much disappointment resulted from cutlings made from the wrong part of the plant. Mr. Lombard was not inclined to believe in theory while he had successful practice to the contrary right before his face every day. Mr. H. Dale, of Brampton, related that Mr. Jennings, of his place, now has De Graw and Edwardsii in the best of health, and says they are the best whites he can find to-day. Mr. Lombard suggested that possibly these varieties had taken out naturalization papers in Canada, and thus started new life. Mr. Ward bought Hinze's White from an eastern firm (Henderson) two years ago, and has no flowers yet. He contemplates introducing it under a new name, "Henderson's Never Blooming White." At 12:30 the meeting adjourned for dinner.

AFTERNOON SESSION.

Some fifty people were present when the meeting was called to order at 2:30.

Mr. Scott's paper was highly enjoyed and received enthusiastic applause.

Prof. Arthur during delivery of his essay passed around drawings showing microscopic views of rust spores in different stages, and supplemented his paper with explanations of his treatment. He advises careful wetting of the soil without wetting the foliage. Spray the plants only once a week to keep down red spider. Be careful to take no cuttings with rust on them, and weed out any which show traces while growing; also, to use soil which has no rust in it. Rust is easily identified, because it will always rub off on the hand when nothing else will. Mr. Ward has been troubled badly with spot diseases, for which he uses a solution composed of six ounces of carbonate of copper to one quart of ammonia, mixed with 25 gallons of water, applied with a syringe. He finds that pipes painted with sulphur will prevent it in a great measure.

Prof. Arthur described another disease. [See essay elsewhere in this issue.]

Mr. Scott thought daily syringing was as necessary to save the plants from the fatal attacks of the red spider as from any other disease. Mr. Palmer states that he does not syringe his plants during the entire winter, which was rather a reflection on Mr. Scott's practice. Mr. Scott replied that Mr. Palmer had just moved into the country and that the red spider had probably not yet arrived. Mr. Swayne reports no red spider. He heats with water. His neighbor, who heats with steam, has plenty. Mr. Gasser states that, although he heats with steam, he does not know what red spider looks like. A volume of conflicting testimony followed from all parts of the house.

Mr. Haettel's paper, "Carnations in Southern California," was read by Secretary Pennock.

A paper promised by Secretary Hill was not received in time, and so was passed on the programme.

Prof. Bailey's paper entitled "Thorpe's Ideal," followed. He called attention to the great variableness of species, and illustrated it with the history of the carnation. For three hundred years improvement has been steady, but in 1613 carnations were in existence 3½ inches in diameter. He believes that a 2-inch calyx is least likely to be attained. He would agree with Mr. Lonsdale that it is desirable to increase the length and breadth of the petals rather than the number of petals. Large flowers mean a less number to the square foot, consequently increased cost, and he doubts whether a dollar flower will be profitable if attained. Replying to Mr. McMillan he said old authorities disagree as to the color of the carnation, but it was probably light blue or pale purple, and it is doubtful if it had any fragrance. In the early part of the seventeenth century a half dozen yellow varieties were in existence. Mr. Scott's greatest desideratum is perfect flowers rather than those of enormous size, three inches in diameter is large enough.

The report of the committee on exhibitions was then read, followed by a recess of thirty minutes for examination of the exhibits.

When the convention was again called to order at 5:30 p. m., a committee of three, consisting of Messrs. Pennock, Shelmire and Swayne, were appointed to draft suitable resolutions on the death of Mr. Chas. T. Starr.

The advisability of arranging for a test of new varieties by the various vice presidents was discussed. Messrs. Schoenfeld and Scott gave some very amusing accounts of their experiences in raising seedlings, and of the worthless and disappointing varieties produced. A decision was finally reached empowering the Executive Committee to act at its discretion in distributing new varieties for testing this spring and to report in full next August. This committee was authorized to publish society transactions in full with papers read.

Election of officers then took place and officers of last year were re-elected for the ensuing year. A vote of thanks was tendered to Professors Bailey and Arthur for their papers.

A vote of thanks was tendered to President Lonsdale for dignity and impartiality in the chair, and to the Buffalo florists for kind courtesies. The remainder of the evening was spent in social intercourse as guests of a few members of the Buffalo Club.

[See notes on exhibition elsewhere.]

Extracts from President Lonsdale's Address.

FELLOW MEMBERS:—It is my pleasant duty to announce to you that we are here assembled for the purpose of holding what will be known as the first *annual* meeting of the American Carnation Society. And although it has not been in existence one year, yet we are gratified to know that it is in a very healthy and thriving condition.

It was in this hospitable city of Buffalo, during the convention of the Society of American Florists held here in 1889, that our good friend John Thorpe predicted that within a very short time organizations devoted to the interests of special classes of plants and flowers would be established. It would do his generous heart good to be with us here to-day.

The time was ripe for the founding of this society, and I trust the good work so well begun will continue to go on and improve with the passing of time.

Much of the success which has attended the efforts of carnation lovers in establishing this society is due to valuable assistance freely given by the horticultural press. Advertising space, as well as that devoted to reading matter, has been generously placed at the service of the society, which is herewith fully appreciated and gratefully acknowledged.

Every member of this organization should be made to feel that he is a part of it. There is much work to be done, and the humblest among us can do something. We must all take it as a privilege, as it is our duty, to aid in every possible way in bringing the flower of our adoption to a higher state—nearer perfection—by improving the kinds we have, the methods of cultivation, and of the placing of them into the hands of those who regard them as a necessity.

The excellent example set by the carnation growers of Chester County, Pennsylvania in establishing a local organization devoted to the advancement of the divine flower, might with profit be followed by those so interested in other sections of the country. A place of meeting could be selected, centrally located, and meetings held at least monthly, and if deemed advisable act as auxiliaries to the American Carnation Society. All papers or essays that have been read before the society should be collected and published in pamphlet form. Those members who are unavoidably absent from the meeting are entitled to this consideration, besides every member would like to have them brought together in this convenient form for future reference and preservation. The time is not far distant, I hope, when the society will be able to engage the services of a competent stenographer who can give a faithful report of the proceedings of the meetings, for very often valuable information is brought out in the discussions that is too good to be lost.

New Varieties.—Our society will have to take a stand sooner or later to aid the members in discriminating between varieties that are no better than the kinds we already have and those that are a step onward. The question arises, how best to do this. It was proposed at the initial meeting in Philadelphia that new varieties be tested by the vice-presidents who represent the various sections of the country. These officers might hesitate to undertake so delicate a duty. But if the plants came to them through the secretary under numbers, there need be no objections raised, and all that would be necessary for each vice president to do would be to report to the secretary upon the behavior of all the varieties under trial. I hope that some such measure will be adopted before it is too late, for I feel sure that seedling carnations will soon be as plentiful as seedling chrysanthemums.

Mr. John Thorpe, chief of the Bureau of Floriculture of the World's Columbian Fair, invites all who may have new varieties of carnations which indicate decided merit to send at least six plants of each kind to be thoroughly tested. This ought to be accepted by all who possess new varieties which are believed to be improvements over existing varieties, and I hope some definite action will be taken at this meeting looking towards carrying out this excellent idea.

Classification.—The time may come when the society will find it necessary to establish classes similar to what is done in Europe with the garden Carnation such as Bizarres, Flakes and Picotees. There is an erroneous impression in some places that the latter, though a Dianthus, originated from a different species than did the carnation. This is not so. A Picotee is a carnation in every particular excepting in the markings of the flowers. The distinction is, the petals of a Picotee have a ground color, which are clearly defined, and are distinctly edged with another color. So far, I have not seen a flower with Picotee markings among the varieties which we cultivate. I would not be at all surprised to hear of one spring up at any time, since there are so many seedlings being raised nowadays.

Nomenclature.—The committee appointed to take charge of this matter is doing good work, and its duties will no doubt increase as time goes by. By the system of registering which has been adopted, the duplication of names ought to be reduced to a minimum. I am under the impression that there are two distinct varieties under the name of Zebra. One has been registered by Mr. C. W. Ward, and the other is offered by Mr. Wm. Maule in this spring's catalogue. The variety of carnation which is being grown for the New York market under the name of Lady Emma is not the same as our late lamented co-worker Chas. T. Starr raised and disseminated many years ago. Mr. Thorwald Jensen, who is growing the variety under consideration says that he obtained the stock from a private gardener some time ago under that name. Mr. Jensen has kindly consented to trace, if possible, where the original stock came from.

I regret to have to state that "May Queen" is still being offered by some florists as "Fred Johnson." The latter variety is, I believe, out of cultivation, while the true "May Queen" is likely to remain with us for a long time on account of its many good qualities.

CARNATIONS AT EXHIBITIONS.

I have been much disappointed with the carnation as an exhibition plant in bloom and as a cut flower. Both at Madison Square Garden, New York, last November, and at the Chrysanthemum show of the Pennsylvania Horticultural Society held in Philadelphia, they were almost entire failures, withering in a few hours after having been placed on the exhibition table. At New York the trouble was said to be the electric light; in Philadelphia the escaped unconsumed gas was to blame.

To have a successful exhibition of carnations, new devices will have to be adopted. My own ideas would be something in the nature of neat booths. This would protect the flowers from the cur-



EDWIN LONSDALE.

PRESIDENT AMERICAN CARNATION SOCIETY.

rents of air which are constantly in circulation in large buildings which, to some extent, I feel sure, is at the root of the trouble. I had fully expected to illustrate the idea at this meeting, but circumstances over which I had no control, have prevented. I trust this hint will be taken up by active minds, and a plan perfected which will be adopted at all flower shows everywhere, and forever put an end to this annoyance.

The improvement of existing varieties in the way of raising seedlings I hope will be treated at length at our next annual meeting, giving a list of those kinds which have proven to be of merit as parents.

Thanking the officers and members for their kindly assistance and advice in the past, and with the hope that the interest and enthusiasm, already manifested so conspicuously will continue for the benefit of all, will continue to make its influence felt, I respectfully submit this address to your kind consideration.

The Carnation in the Retail Trade.

BY WILLIAM SCOTT.

[*Read before the American Carnation Society at Buffalo Feb. 16.*]

I thing we will all agree that such an important place does the carnation occupy in our retail business that it deserves the recognition that this convention has given it in having a paper read before it under the above heading, and I wish the topic had been assigned to some one who was better able to do it justice. But I will do the best I can.

First I will speak about its position among flowers generally used in the retail trade. With the exception of the rose, we can better afford to dispense with any other one flower than the carnation. For my part, if I could not be among flowers, a bunch of mixed carnations would be more pleasing to me than any other, not exceping the rose. It seems to befit every occasion, be it festive or funeral, summer or winter. In my retail store the cry of late years has seemed to be always, "Give us more carnations and we can get through with our orders." I have remarked to my clerks, "Your demand for carnations seems to increase out of proportion to your demand for other flowers; how is it?" The reply is, the sale of carnations is always on the increase, and it is so. The white carnation a few years back was in demand for funeral work only. Now it takes its place as one of the flowers that are worn as corsages, carried as bunches, and used in house decoration. The colored carnation has always been in demand on all occasions, but only to a limited extent compared with their use to-day. Take the boutonniere as an instance of its popularity. What flower have we that fills the bill like the carnation? Any color for any taste, and good summer and winter, and although fashions change and the violet and the lily of the valley and the hyacinth have their day, the carnation still goes on forever. And so it should be, for the carnation has some good qualities that other flowers have not and some good varieties in greater proportion than others.

First, it has what may be called its toughness and lasting qualities. The rose has keeping qualities too, but how the smallest scratch or bruise mars them, and in many how soon the color goes, the fragrance is lost, and the petals drop. This applies to many other flowers more or less; but not so the carnation. The color will last, the fragrance will stay, the bruises and knocks will not show, and to the last the petals will not drop. Not alone that, they will close up with old age and try to assume the bud form again, although the bud is not so pointed, and in this stage the florist skillfully wires two or three of them together and almost persuades himself he has a nice double carnation good enough for funeral work. (I have not done this, but I have heard of it.) Then the fragrance of the carnation must not be overlooked. To me it is one of the most delicious, agreeable and spicy of all flower odors. With the exception of the violet I like it the best. Then again, the variety will always sustain its popularity, and the shades and improved colors that you are continually giving us will always insure its retaining its elevated position.

The carnation also combines with these qualties another (if you will allow me to call it a quality), and that is one that its rival the rose is very apt to lack—a moderate and reasonable price. In my experience behind the counter one of our most frequent demands from customers is a few bright, sweet-smelling flowers for a sick friend. We suggest Roman hyacinths—"Too strong"; violets, valley and roses—"Too expensive." The carnation is just right, combining brightness and fragrance with that of comparative cheapness. And this last is most desirable, as the majority of our patrons are not millionaires, and I may add that you can oftener sell carnations when you have not roses, violets or valley, than you can sell the latter in the absence of carnations.

"Secondly," as the ministers used to say, I will speak of the varieties and colors that I consider most valuable to the retail trade. To begin with white, of the different varieties I have handled lately, the one that pleases me best is Silver Spray. It can really be called a white carnation. We seem to be able to get it in good form at all seasons. The form is good, fine stiff stem and keeping qualities most excellent, and generally meets all demands for a white carnation. Hinze's White with me comes next; although often so richly marked it can be used for color, yet it can generally be sold for white; its odor is delicious and keeping qualities and length of stem good, and for bouquets always a favorite. Lamborn, a grand white flower, is so seldom seen by us in the best of shape that we cannot depend on it.

In pink I think it is generally admitted we have in Grace Wilder the best selling carnation up to the present time. It is at all times the most salable variety. It is so soft and pleasing in color, and in the absence of pink roses a customer can be oftener induced to take Wilders than any other flower. Tidal Wave grows in favor every day, and owing to its fine form and peculiar color is rapidly coming to the front. There are a few other beautiful pink varieties recently disseminated, but I have not handled them yet in my retail trade. J. J. Harrison is a good flower for the trade, and like the white ones can be used short stemmed in many designs. One objection, it bursts its calyx a good deal, and it is hard to teach some buyers that the flowers are fresh when they are bursted.

I now come to the two colors that I hope the carnationists here are going to show us an improvement on. I allude to yellow and scarlet. I have used very few Buttercups of late because they are difficult to procure and good ones are, I believe, very scarce. Any amount of fine yellow carnations could be sold. In scarlet I do not consider we have yet a very grand variety on the market. Garfield is a fine bright flower but lacks substance, and Portia although small is a fine color and has a grand stem. Alegatiere is perhaps the finest long stemmed flower in cultivation, but the color is dull. Red carnations have been in such great demand this past year or two that I hope some one will introduce a better market variety than we have at present.

There are many other varieties, not only new kinds but standard kinds, that are good, and favorites in certain localities, but I have made no attempt to comment on or criticize any varieties that I am not well acquainted with. I am prepared to see here to-day some new kinds that will make the retailers' mouths water.

With regard to the price of carnations, the law of supply and demand must in a great measure make the price; but, as I have before stated, they are always moderately cheap. We get much better prices than we used to do, owing to the larger variety and better quality of the new introductions of recent years, and as the size and substance of the flowers increase the retailer will be able to make yet an average advance in prices. I can say that, in my opinion, good long stemmed carnations should never be sold for less than 50 cents per dozen in winter, nor less than 25 cents per dozen in summer. At many times a good advance on these prices can be obtained readily. I only quote these prices as the lowest notch they should reach, and as a grower and store keeper both, I take this opportunity to offer my protest against that foolish and damaging practice of some men situated as I am, who, when they find themselves with a big crop of carnations, say in November or again in June, retail them over their counter at 10 cents per dozen. You have all heard of such cases—I know I have. Far better to sell half the quantity and send the balance to some charitable institution.

In buying carnations the retailer can do better than with almost any other flower from the fact that he can oftener buy direct from the grower. In and around all towns of any size there are growers of more or less extent who go into carnation growing and who prefer to sell to the retailer straight. I mention this as a prefix to what I am going to say in regard to getting carnations from the brokers in large cities. I have found it one of the most unsatisfactory flowers to order. One shipment may be good and the next one found to be in that stage which I attempted to describe as returning to the bud form. Now, I do not see why this should be, as they are the easiest flowers to ship, and prices from these sources are always well up. Perhaps from the fact that the carnation is such an old friend the shipper feels that he can stretch his conscience a little and depend on the well known toughness of his friend the carnation to carry him through.

Now, gentlemen, a few words as to the future of the carnation, and I am done. I know that the advance of the carnation in the favor of the flower buying public will be equally as rapid as it has been in the past, and more especially as this society has been organized and as a result will take more interest in improving the "Divine Flower," and will give to us a better article to offer our patrons. And as the carnation is a flower never in fashion, yet always in fashion, therefore nothing can dethrone it from its position in the trade, which is that of one of the best two flowers for the retailer to handle.

Do Varieties Run Out?

BY W. R. SHELMIRE.

[*Read before the American Carnation Society at Buffalo, Feb. 16.*]

In the propagation of our greenhouse plants it seems to have become the fashion to refer to the art of increasing them by cuttings as something unnatural and altogether out of the regular run of events. Many florists have an idea that the cutting bench is diametrically opposed to nature's laws, and that our plants increased in this way must become weakened, sickly, and the varieties eventually die out by a continuation of the process. It is asserted that propagation is not reproduction; that it is merely the old plant re-invigorated, and from the necessity of the case the stock must degenerate. If the opinions held are not quite so radical, there is still a general mistrust that rooting cuttings to perpetuate the life of a variety is merely a makeshift and sooner or later resort must be had to the seed—the natural and true plan to perpetuate the species.

The object of this paper is to combat these suppositions, and, while I may not be able to entirely convince, I hope at least to throw out a few crumbs of truth which may give food for thought and further investigation. To my mind there is nothing opposed to nature's laws in the propagation of a plant by layers, cuttings, grafts, and so on. All phanerogamous plants are built on the same general plan. The grasses, trees, herbs and cultivated forms of our houses (the carnation being no exception) can all be reduced to ultimate similar parts. This ultimate part is known in botany as the phyton, and merely consists of the stem from joint to joint, and the leaf or leaves attached thereto at the top. A bud starts from the axis of the leaf and stem, reproducing the same plan, varied only in detail by the species; and from the seed to the death of the plant growth is nothing but a repetition of the same process.

But this phyton, this plant part, is much more than a mere extention of growth. It is to all intents and purposes a new plant. It is not independent, because attached to the parent stem; but it is, nevertheless, a *unit*—so that a plant may be said to be a community of individuals; and is in reality as much so as a branch of living coral. Further, each part, each of these independent factors, is capable, under certain circumstances, of striking root and taking on a separate existence. This production of roots from the stems of plants is a general principle in the vegetable kingdom and the foundation of the art of propagation. In a natural state the process is resorted to far more than a casual observer would suspect, and the plants produced thereby, whether in a state of nature or from our propagating tables, are as much a new existence—they are just as truly independent and resuscitated beings as are plants grown from seed. Mr. Thomas Meehan, the veteran botanist, says: "If we take off a cutting and put it in the ground it becomes as truly a new individual as a chicken raised from an egg."

The sugar cane rarely or never produces seeds, but has been increased by layers and cuttings from time immemorial. The banana is another example of a seedless plant. In neither case does there seem to be any lost vitality, although they have been thus grown for ages. Indeed, in cultivation the tendency is to entirely lose the power of producing seeds. Wild plants are increased by layers and cuttings in a state of nature, and examples might be multiplied without number. Many herbs naturally annual are continued from year to year by means of cuttings as well as seeds, the common cardinal flower of our meadows being a prominent example.

But the author of "Carnation Culture" says: "Nature never propagated a carnation by cutting short an incipient cane from the side of the old plant and bid it take upon itself a separate existence." I would take exception to this statement, and make the assertion that it is not only possible but very probable nature *has* propagated the original native species in that very way. Of course it cannot be supposed that she cut the cane or pips by an invisible hand and inserted them in a bed of fine sand with bottom heat and all the modern accessories. But it is easily conceivable that a plant may become broken by wind or the tread of animals, and the parts thus partially broken or entirely separated take root and become new plants. I have observed in our houses when a stem has by accident become broken the separated ends will callous and eventually emit roots in the air if in a damp and shady place. There is no trouble in saving plants thus rooted. Nature does not revolt at the production of plants by cuttings. The phenomena of the cutting bench are in strict accord with nature's laws. It is the business of the florist to beat the old dame at her own game. She, always prodigal, may be satisfied by rooting one cutting in a hundred or thousand. By strict observance of conditions we can turn out 75, 90 or 100 per cent, and they will be just as good as the parent—every one of them—if our work has been properly done.

I will now try to show there is in reality, as far as can be seen with the eye, no difference between a cutting and a seed. This may seem to be a startling assertion, but there is nothing more true than this fact. All plants grow by a multiplication of plant parts (phytons). The one growing from the apex of the preceding one, until finally the branch flowers, bears fruit and forms seed—always borne on the end of the stem. Our microscopes reveal the fact that the embryo within the seed is merely a small phyton consisting of a stem (the caulicle) capable of taking root, and the minute leaves (cotyledons) which expand and produce a bud, which bud sends forth another stem and leaves—or plant part—and so on indefinitely. Note the fact that the stem of the embryo possesses no roots in the seed. These are developed when the seed is placed in the damp and warm ground, just as the roots of a cutting are produced from the lower end of *its* stem under like conditions. Too high or too low a temperature will make sickly and weak plants in the case of either a seed or cutting. And too much or too little water will totally destroy either the one or the other. The seed is a very wise provision of nature for bridging over uncongenial seasons of the year or transporting the species to a distance. Yet there *is* a difference. It is necessary to the formation of a seed that

sexual union shall take place in the ovary and the product of the parts thus brought together partakes of the characteristics of both parents. Thus variation is produced, and without entering into a prolix explanation it may be said in general that the greater the difference in the parents the greater the variation in the seed. The seed is simply nature's method of producing variety. Again I quote from Thos. Meehan: "Individual good is not subserved by seed-bearing, but the union of two distinct cells in one insures variety, which is ever a leading object in nature." Here, then, is the secret opened up to us whereby improvement may be made. The carnation was found a fixed type of single flower generally reproduced by seed. Man began the cultivation of this plant 3,000 years ago, we are told, but he has not yet succeeded in eliminating the single flower from plants grown from seed. By the crossing of varieties and the selection of the better kinds wonderful improvement has taken place until *Jove's own flower* is the rival of any in the market. The process of crossing varieties is one whereby we must discard the bad and hold on to that which is good, and when we have the better variety we must perpetuate it by *cuttings*. Without the seed we would get variation but slowly; without the cutting the improvement would be lost.

But after all we have said we are still brought face to face with the fact that the varieties of carnations grown to-day are not the same as were grown a generation or decade ago. Old kinds discarded, new ones taking their places. And why, I would ask, should this *not* be the case? Without resorting to any theory of disease we can readily see that better varieties have been produced to take the place of the old. A poor commentary it would be on our numerous hybridizers if this were not so.

Lizzie McGowan, Daybreak, Golden Gate, Aurora, etc., are taking the places of Edwardsii, De Graw, Astoria, La Purite, etc., not because they are any more robust or in any way more capable of resisting disease, but because their flowers are better, larger, more perfect and bring a better price on the market. The old must of necessity drop out of the race and give place to their more perfect prototypes.

That varieties run out in six years I do not believe. It takes that long or longer to get a new kind fully distributed. And I am quite confident that many of the older kinds can be found to-day growing as vigorously as ever. There is nothing inherent in the plant whereby they should not be as healthy after 100 years of propagation by cuttings as when they first saw the light of day. Disease may indeed get in its insidious work, but a seedling is just as liable to be so attacked as a kind that has been cultivated for years. Any one who has raised seedlings must have observed the sickly appearance many of the plants present.

It is a sorry thing to contemplate the fact that hardly one seedling in a hundred is worth saving, and that one may soon show signs of failing health. Many varieties in the very year of their introduction show more signs of disease than do those of long standing; and I would allude to Buttercup, Century, Wm. Swayne, Lamborn, Tidal Wave, and very many others if need be, as examples.

I believe this matter of running out of varieties lies entirely in our own hands. If we propagate carefully and judiciously we can preserve them indefinitely. If we are careless, reckless and unobservant they are lost to us forever. Many of the new introductions are spoiled in the beginning (and our entire stock may be ruined in like manner) by indiscriminate and reckless propagation. A good, healthy, fast-growing carnation plant will give us about as many *good* cuttings as flowers. But I am sorry to say there are too many of us not satisfied with the legitimate, but must resort to the reprehensible practice of cutting up the entire plant, and it is needless to add the plants produced from the flower stems are, in my opinion, utterly worthless—they will either die at once or stretch out a precarious existence.

In conclusion, I would make an earnest appeal to all florists for the better education of ourselves, for those who assist us, and for those who come after us. I mean to say, we should be better educated to our calling; and an important part of that calling is to endeavor to find out the laws that govern our every day operations. Science is not difficult to comprehend, and surely the pleasure to be derived from its pursuit will be alone ample compensation for the time thus spent. Of all the sciences *botany* is of the most importance to us. Not the mere lisping of long latin names, but the study of the hidden mysteries of plant life—growth of the seed, development of the embryo, structure of the stem and leaves, expansion of the flower, that culmination of nature's skill. Such studies will not only afford us pleasure, add unto us length of days and afford needed recreation, but will put into our pockets DOLLARS—the great bauble which we are all after.

Carnation Rust, A New and Destructive Disease.

BY PROFESSOR J. C. ARTHUR, PURDUE UNIVERSITY, LA FAYETTE IND.

[*Read before the American Carnation Society at Buffalo Feb. 16.*]



Fig. 1.

Leaf of Carnation with several rust pustules.

It is now three months since the first notice or intimation of the presence of carnation rust in this country was published, but in that time the subject has received much attention from the growers of carnations on the one hand, and from the students of vegetable pathology on the other hand. All agree that the new pest is to be looked upon with more than usual suspicion, and that it should be met with what skill and knowledge can be commanded to keep it within bounds.

Those familiar with the history of plant diseases will recall the rapid and destructive spread of the hollyhock rust in Europe, a rust closely related to the one which has appeared upon carnations. The hollyhock rust appeared in Spain in 1869, being introduced from South America. In 1873 it had extended throughout France and had reached the borders of England and Germany. In another year it had over-run Italy and Germany, and in 1876, seven years after its appearance, it covered all of Europe except the most eastern part of Russia, and proved so destructive that the culture of hollyhocks was all but abandoned.

Instances of the equally disastrous progress of other newly introduced fungous diseases, not so closely related to the carnation rust, however, could easily be multiplied. It will be seen, therefore, that there are no lack of precedents to serve as warnings in contemplating the possible seriousness of the case in hand.

When I first came upon this rust, I hoped that it had really been brought from Europe in the importations of the last season, and was confined to a few establishments, in which case I thought that vigorous measures might result in soon entirely exterminating it from the country. I have learned, however, that its distribution is already quite widespread. It is now known to occur in Massachusetts, Pennsylvania, New York, Ohio, Michigan and Indiana, and is reported from more than one locality in most of these states. I have no doubt that further inquiry will show that it has invaded other states, as the great interest now taken in the carnation has led to large sales and transportation of rooted

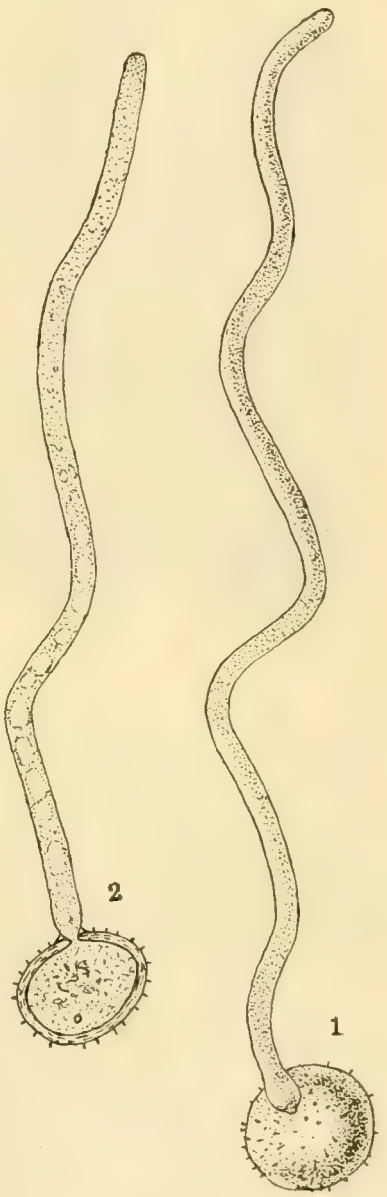


Fig. 2.

Two germinating uredospores. (1) surface view. (2) in optical section.

plants, and a few infected centers might easily distribute the rust as widely as there is a demand for the flower.

There is yet no evidence to show, however, that the fungus has been in this country any considerable length of time. The first impression, that it was brought from Europe with the importations of 1891, is found to be erroneous, as it was collected at Lansing, Mich., by Professor Taft in 1890, and specimens taken at that time are now in my possession. But it was probably established in some places along the Hudson River two or three years earlier yet, as I am informed that

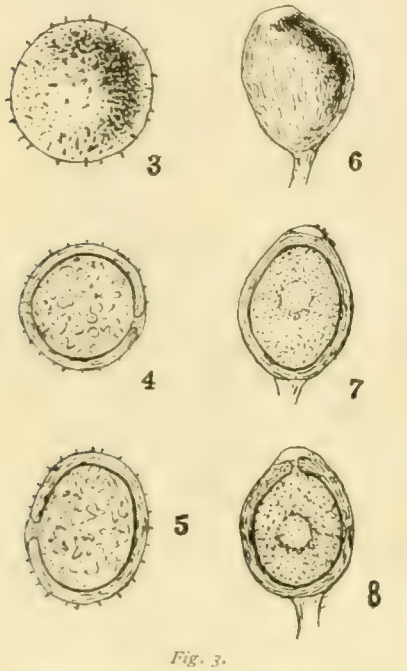


Fig. 3.

Three uredospores (3, 4 and 5), and three teleutospores (6, 7 and 8); numbers 3 and 6 are drawn as seen on the surface, and the others as seen in optical section.

Mr. John Smith, now superintendent of Mr. Robert Craig's place in Philadelphia, claims to have personal knowledge to that effect. As far as present information goes, therefore, the distribution of carnation rust in America has been accomplished within four years.

The rust has long been known in Europe, and is especially common in Italy and Germany. The earliest description of it was given by Professor Schrank in 1789, in a volume on the Bavarian flora. Although so long known, it does not seem to have excited much attention from the economic side, for most works on plant diseases do not refer to it. An Italian treatise by Cavara is the only one so far as I know, that does more than simply mention the name of the fungus.

The cause of the carnation rust is a vegetable parasite, Uromyces Caryophyllinus, that invades the stems and leaves of the plant, and after a time produces a quantity of spores to spread the malady. The first intimation the florist has that his plants are rusting, is the appearance of oblong pustules, a sixteenth to an eighth of an inch long, or even larger, somewhat raised above the surface of the leaf. At first the pustule is covered with the gray outer membrane of the leaf, but this is soon pushed aside, and a brown or blackish mass of spores is exposed. The spores come away easily, and readily adhere to the hands as a brown dust. The pustules are usually scattered, or somewhat clustered, upon both sides of the leaves and on the stem. Plants sometimes become so covered with the rust that they drop the spores as a dust whenever shaken or handled.

The fungus, which does the harm, is inside the leaf or stem of the carnation, and is quite invisible. Even under the microscope it can be brought into view only with much difficulty. After a time spores are produced by this concealed parasite, which forming in masses soon rupture the surface covering of the leaf and are exposed to view.

The spores are for spreading the fungus. There are really two kinds of spores, one for immediate service (uredospores) and and one for use after a considerable period has elapsed (teleutopores). The only difference the naked eye can detect between them is that the latter are slightly darker brown. The two also look somewhat alike under the microscope; but there is a very important physiological distinction that merits your attention. The uredospores will start to grow as soon as ripe, if placed in water, but the teleutospores will only grow after they have passed a certain period of rest. Growth of the uredospores takes place by pushing out a delicate tube from the spore, which reaches its full development in less than twenty-four hours, and dies unless it has in the meantime penetrated a carnation leaf. If this happens, the tube draws nourishment from the juices of the leaf, branches and ramifies through the tissues, and within a month, possibly in a week or two, is ready to bring forth a new crop of spores. In this way the rust is very rapidly propagated from leaf to leaf and from plant to plant, whenever the atmosphere is moist enough to permit a thin film of water to remain on the leaves a few hours, in which the spores may germinate.

The resting spores (teleutospores) do not behave in this way. They germinate (probably after some months) upon the ground, forming still more minute sporules, which are borne to the carnation plant by the wind, and there establish the rust again.

From this knowledge of the habits of the fungus, we may draw some very important suggestions to guide us in fighting it. So far as possible remove the affected leaves, or even whole plants, taking care not to scatter the spores unnecessarily, and burn them, in order especially to destroy the resting spores. Spray the plants with some solution that will check the formation of spores in the old pustules, and at the same time will render the germination of spores falling upon the surface of the plants impossible. When cuttings are removed for the next season's supply of plants, take no diseased branches, and watch the young plants closely to destroy any signs of disease that may develop. Use no soil for pots or beds, and do not plant in the open ground in soil that has become contaminated with spores. At the earliest opportunity remove the soil from benches that have grown diseased plants, depositing it at a safe distance, fumigate the house with burning sulphur to kill any stray spores, and refill the benches with clean soil.

The writer fully believes that careful and persistent attention of this kind will rid an establishment of the pest in one or two seasons. It is, furthermore, evident that by concerted action among carnation growers, it will be quite possible to remove all traces of the disease from this country, and by vigilance on the part of importers to keep it from again gaining a foothold. It is certainly a result much to be desired.

Wherever the rust has obtained much headway, and especially when it appears shortly after the plants have been housed in the fall, the use of some fungicide is almost imperative. Experiments are yet needed to determine what is the best fungicide to use and the best method of applying it, but there are indications that the search will not be a long or difficult one.

Through Mr. E. G. Hill I learn that an old Swiss gardener now at Richmond, Ind., is familiar with the European aspect of the disease, and says it can be controlled by spraying with water in which green vitriol (sulphate of iron) is used at the rate of one-third to one-half a pound in a gallon of water. I am inclined to think that this treatment would be reasonably effective. There are good reasons to suppose, however, that some form of copper solution will be more effective and lead to quicker results. The Bordeaux mixture* is the best known, but is not so easily prepared as the ammoniated copper carbonate.† The latter may be bought ready for use under the name of copperdine. The materials for these remedies

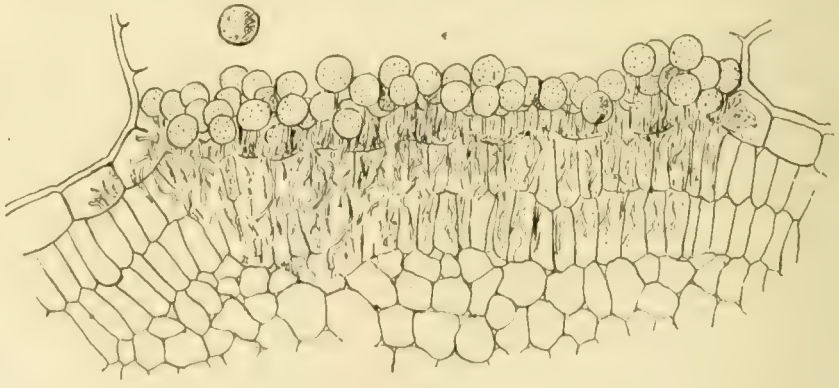


Fig. 4.

Section through a pustule of uredospores. All except Fig. 1 much magnified.

*Made by using 6 pounds of copper sulphate, 4 pounds of quick lime and 22 gallons of water. Make a solution of the copper sulphate in part of the water, make the lime into a thin whitewash, then add both to the remainder of the water mixing well.

†Use 6 ounces of pulverized ammonia carbonate and 1 ounce of copper carbonate to 10 gallons of water. Prepare it as it is needed.



ROSES AT THE LAST NEW YORK EXHIBITION.

are not especially expensive, and if a suitable spraying apparatus is at hand the application will cost but little in either time or money.

A precautionary measure after the rust has appeared in a house is to keep the air as cool and dry as compatible with the health of the plants, thus retarding the growth and distribution of the spores. It is interesting to note that some varieties are more affected than others, the Silver Spray proving itself particularly susceptible.

Carnations in Southern California.

BY C. J. HAETTEL, REDONDO BEACH, CALIFORNIA.

[Read before the American Carnation Society at Buffalo, Feb. 16.]

The following notes are not designed to be a systematic treatise on the cultivation of the Divine flower in this section, but will outline briefly a few points that may be of interest to those not conversant with methods differing materially from those of other localities.

Our soil is almost pure sand, of a dark color, plants grown from cuttings during the season and pinched back once attain a growth of about two feet in diameter and produce hundreds of fine flowers. We never lift them, but keep them always in the ground.

Plants set out in February will bloom until the young plants commence blooming. These will be set out in January direct from the cutting boxes out of the sand to the open ground, and come in bloom in June, when the old plants will be destroyed. Seedlings, I never pinch back, but let them bloom at once. They are set out in rows, 3 feet apart and 6 inches in the row.

We make cuttings from the best in the fall and destroy the remainder.

In planting carnations here, the loss is about one fourth by the borers. They are very troublesome during the months of July and August, but later in the season their ravages cease entirely. We are not troubled with any disease as yet. In making cuttings we use no fire heat, but always choose the coldest season of the year and cuttings will root successfully in 3 or 4 weeks, while in the summer months they damp off in about one week.

January 27th we had our first rain since early in March '91, and during November, December and January our carnations suffered much from the drought, the ground having become so dry that irrigation was of little value. After such a long dry spell the first flowers will split, but in a short time they will be all perfect again, and from now on until May or June we will have an abundance of flowers on our old plants; by that time the young plants will come in bloom, when we will burn the old plants. This season I shall make a planting about the middle of July to 1st of August for a succession of bloom.

Our method of fertilization is probably different from that employed by other growers, and while it is more complicated and expensive than some other modes, I believe it very effective; from 7 to 9 a. m. according to the amount of moisture in the air, the flowers will be ready to pick for the purpose of extracting the pollen, which should then be dry. I use a clean plate to receive it. The easiest way to extract it from the flowers, is to turn the petals back and with a sharp pair of scissors cut the stamens off, after all is gathered, cover the plate with a clean plate of glass, and turn it over occasionally as some moisture will collect on the glass. Under the ordinary circumstances the pollen will be ready to put away early in the afternoon. It is then put through a fine sieve and allowed to fall gently upon a clean sheet of paper, from which it is transferred to a 1 oz. bottle. When we are ready to hybridize we make use of a pair of pincers, such as jewelers use, with this we extract the stamens early in the morning before the flowers have been fertilized by insects or self fertilized; a little later we pass with the pollen bottle and shake a little of it in the calyx covering the pistils when the operation is complete. The same method is employed in fertilization for seedlings of roses, gladioli, amaryllis, cannas, dahlias, etc. We use the best flowers for seedling purposes to retain only the best from which to propagate.

The experience during our past dry winter shows us that we would have better success in growing our seed of carnations the latter part of February, because as we use no fire heat, many of our young seedling plants are lost during the cold dry winter if the seed is sown in the fall.

Twelve Variegated Plants.

It is not always easy to decide just what plants will prove most effective for exhibition purposes in a given class, and it is with this thought in mind that the following list has been made, for these things require attention in the spring if a satisfactory showing is to be made in the fall.

The small number of species here noted may form the nucleus of a much larger collection, there having been no attempt to include crotons, calatheas, caladiums, and many other fine variegated plants that are suited to this purpose, it being an easy matter to increase the number to twenty-five varieties by such additions.

The first to which attention is directed is Phrynium variegatum, one of the most effective plants of recent introduction, when in a good condition, and which may be well grown under similar treatment to the warm house calatheas. This plant may be increased by division of the roots, and requires plenty of water during the season of active growth.

Ficus Parcelli is by no means a new plant, yet comparatively few good specimens are seen, though the plant is easy to grow providing sufficient heat and moisture be given it, and is more easily propagated by means of cuttings than are some of the other members of the same genus. The foliage of this plant is somewhat thin, and consequently will not stand as much sunlight as will the following species, and is also somewhat liable to attacks of red spider unless well syringed.

The next place is admirably filled by Ficus elastica variegata, now so well known as not to need special description. It may be noted, however, that this handsome plant requires plenty of light in order to develop its best coloring, and during the winter it does not need much water overhead, especially during dull weather, as under these circumstances the edges of the leaves will sometimes suffer.

Alocasia macrorhiza variegata is one of the noblest of fine foliage plants for exhibition purposes, its leaves attaining nearly the size of Caladium esculentum under favorable conditions, and being marbled and blotched with large patches of pure white, are remarkably attractive. This alocasia, like most of its congeners, will not grow to any great extent during the winter, but still does not need to be dried off entirely, and can be increased by offsets and small bulbs, which are frequently formed around the parent plant.

Eurya latifolia variegata should by all means be included, for although this plant is not specially quick in forming a large specimen, from its camellia-like habit, yet it is worth waiting for, the foliage being so prettily variegated and the plant usually of symmetrical shape. A temperature of 50° is enough for the well being of this eurya; in fact, one of the finest specimens I have ever seen was grown in a night temperature of 45°, and potted in an open, well-drained compost, composed of about equal portions of coarse loam and peat.

Hibiscus Cooperi is an old-fashioned plant, but one of considerable merit, the leaves of which are of irregular shape and profusely blotched and marbled with white and crimson, the edges of the leaves frequently being of the latter color, as are also the young shoots. This plant can be grown into a shapely specimen by means of a little pruning and pinching, and in order to develop its brightest coloring, should be grown in a warm house. Cuttings root readily, and may be put in at any convenient time of the year.

Heliconia aurea striata has been frequently seen at exhibitions for a few years past, and invariably attracts much attention, its bold canna-like foliage being profusely striped with fine yellow lines, and the leaf stalks usually pinkish in color. Heliconia aurea striata enjoys liberal treatment in heat, moisture and soil, but if grown too soft will frequently suffer from the exposure of a draughty exhibition hall.

Phyllotænium Lindeni is another handsome stove plant of variegated foliage, the leaves of which bear some resemblance to those of an alocasia, and are light green in color, with the midrib and larger veins marked out in white. This plant requires thorough drainage and a rich, open soil, and though it needs an abundance of water when in active growth, yet should never be allowed to become sodden.

Pandanus Veitchii will of course be included in all good collections, and is so popular as not to need description in the present article.

Alpinia vittata is a very pretty representative of the Ginger family with leaves about six to eight inches long, these being handsomely marked with broad stripes of creamy white. This also is an easy plant to grow, and may be increased by division.

The variegated pineapple, Ananas sativa variegata, is one of the finest exhibition plants in cultivation, the coloring of the leaves being so bright and distinct. And to secure the best result in the matter of coloring, the plants should have plenty of light and heat, and in the growing season an occasional watering with liquid manure is beneficial. There is also some difference between crown cuttings and suckers, the first named producing the best plants.

One member from the Dieffenbachias, namely, D. Bausei, will complete our list, and though not one of the latest introductions in this genus, still remains a very good representative of it, the leaves being about one foot long and broad in proportion, the ground color being yellowish green and marked with dark green and white. D. Bausei is comparatively dwarf in habit, and will make a showy plant in about a ten-inch pot; and like all the members of this family, it is best suited in a warm house.

W. H. TAPLIN.

The Violet Disease.

In each number of our good AMERICAN FLORIST I find something relating to the violet disease, but very little is said that I consider valuable. I have raised violets for winter blooming ever since 1863, in cold frames. In the first two years I had this same disease. I changed my treatment, and since then have never seen any of the disease except when I varied from my rule.

I plant my rooted cuttings right in the frames or house. Over the frames I put up a frame work of 2x3 joists, two feet high on lower side and three feet on upper side, on which I lay my sashes, and which I then shade by the use of common laths.

From the time the violets are planted I never give the leaves any water, only water with the hose between plants. When I find red spiders I take boiled water with soap, cooled down to 100° and syringe in the evening. Towards spring, when the sun is hot and the air



THE VIOLET DISEASE.

dry, I syringe with water at 100°, to get the flowers out quicker and kill red spider.

I have noticed that with all violets when planted in the open air under our hot sun, in case of a sudden rain when the ground is hot, the leaves get cooked and in a few days are down on the ground, with scarcely a bit of green to be found. When this happens early in August, they may outgrow it in a measure by November, but they will alway show it.

I often find the spots on the leaves where the wind may happen to drive some of the rain in. On one occassion last winter the rain came from the east very suddenly, and before I had time to get all the ventilators down, it drove in, and just so far as the rain went the plants were spotted and lost their leaves. In the fall I remove the standards and lower the sashes and give all the sun there is, with plenty of air when possible. Take my advice, keep the cold water off your violet foliage and you will have no disease.

VIOLET.

Azaleas.

Will some of your readers through the columns of the FLORIST tell us how to treat old plants in 9 and 10 inch pots, three to four feet high? Is it best to throw them away and buy new young stock?

H. H. H.

When the azaleas have done blooming, it would be well to knock the plants out of the pots and ascertain if they are pot bound—that is, if the pots are full of roots and need shifting. If that is the case, it would be well to take a knife and reduce the ball a little and shift the plant into one size larger pot than what it was growing in, using a good light soil to which has been added some leaf mould. It would be well if the plant was trimmed into proper shape at the same time by cutting in some of the straggling shoots. Place the plant into a temperature of 55° to 60° and if not diseased it will soon break out into a vigorous growth. When making its young growth the plant should be kept well syringed.

JAMES DEAN.

Frozen Callas.

"Subscriber," page 543, has had a not uncommon misfortune in the freezing of callas. If he wishes to have them in salable condition by May, he should put them in a cool, dry place till about March 10, and then he can easily force a fine growth by the early part of May.

H. C. M.

New York.

The discussion on the relations of employers and employes to each other at the last meeting of the Florists' Club, was very interesting. It seemed to be the general opinion that the happy medium between that leniency which personally attaches the employe to his employer, and that severity which regards the employe as but part of a machine, is difficult to attain. Equal parts of "justice, firmness and kindness," was the specific prescribed by Mr. O'Mara.

Theo. Roehrs is receiving some very handsome Magnas, Laings and Luizets now, a large part of them coming from Mr. Julius Roehrs' Carlton Hill establishment.

Wholesale trade at W. F. Sheridan's seems to be booming. Tulips are plenty, and he is receiving quantities of very fine Mermets and Brides.

Trade at the 34th St. market has been rather dull lately, stock not very large and buyers not very eager.

Alex. McConnell made a unique table decoration for a Silver wedding on Feb. 10. It consisted of two hearts with the points joined by a silver ribbon, on the oval table. The hearts were composed of cattleyas, Roman hyacinths and adiantums. The corsages were of orchids and lily of the valley, tied with narrow silver ribbon. For the gentlemen the popular rosettes, consisting of several carnations tightly wired together, were provided. This rosette fashion is the most abominable thing that has been introduced into the business for many a year. The florist is not to blame for it. Customers demand it and he must submit.

Robt. B. Young's first auction sale for the season is booked for March 1. It will consist of Holland stuff, dormant.

Robt. Craig of Philadelphia has so far recovered, that he has been spending a few days with Mr. J. N. May, where he can enjoy the bracing air of Summit.

The orchid show of Siebrecht & Wadley will open on March 2, at the Eden musee, remaining open until March 10.

Mr. A. Ingram, representing Messrs. Hugh Low & Co. of London, England, has arrived in town.

Dailledouze Bros. are cutting some handsome Wabans.

The Madame Cusins, coming in from F. R. Pierson at present, are superb.

Baltimore.

Let not our neighboring villages think we are asleep or gone fishing because we are not heard from every week. There is no sleep for the steam boiler man, and the woods hereabouts are full of them (the man who runs, not the man who sells them), and as for fishing, we are only getting our tackle ready, after that there will be such a going over the waters of these United States for shy and fat biters as has not been seen for a while.

The Florists' Exchange has passed a rather tempestuous week, but is still doing business at the old stand—and big business at that. At the last annual election of directors the stockholders present decided to pool all flowers received each morning in three grades for each variety, and make growers who had flowers in any pool share alike in the sales or waste of that particular lot of flowers. This was to prevent the possibility of any partiality being shown to one grower or another; but it did not meet the approval of some of the stockholders, who mustered their forces, called a special meeting and, after a somewhat acrimonious debate between the pros and the cons, reinstated the former order of things, in which each grower's stuff is kept strictly separate from the time it is received until sold, or wasted.

The Gardeners' Club has determined to admit a class of members to be known as passive members, who, upon payment of $3 annually, will be admitted with their families to the library and all exhibitions, but not to the business meetings of the club.

The club is just now greatly exercised over the present place of meeting. It is a hall in the second story of a large building, well lighted and warmed, commodious and central. But (the printer should print with a capital b) there is another hall above and perhaps on one side, and a dime museum across the street, all of which places seem to be doing their very best, whenever the club meets; so that it is no uncommon thing to have the tap of of the president's gavel lost in the thunder of feet from the hall above; or for some eloquent speaker to pause one, five or ten minutes to let the band of whichever place has the go get through the popular piece of music (?) which they happen to have selected. A committee has accordingly been appointed to get better quarters, and to combine, if possible, the comforts of a reading room and bowling alley with a hall for meeting, a store to rent the exchange, and maybe even a place where lunch and refreshments of various kinds may be secured.

The essay at the last meeting was by Mr. A. Cook on "The Carnation," and though it is to be feared that the editor will chop "Baltimore's" head and tail off or throw it away altogether, if this report doesn't stop soon, yet for the sake of some one who may be helped, here goes for a synopsis of the essay.

Cuttings in January or February, of side shoots after blooming. Rooted in cool house; then set in boxes two inches deep filled with one-third each sand, loam and manure. Set two inches each way. Keep cool, and, as soon as the weather permits, plant out of doors one foot apart each way. A severe frost after planting will not hurt them. Top them during summer to make bushy; but not later than August. In Ocober plant in houses one foot each way, on benches five inches deep, filled with equal parts of sod and rotted manure. Finds them very impatient of wet soil. Thinks the cooler they are kept the better the flowers will be; never above 45° or 50°. Syringes freely every clear day. Has grown Swayne, Lamborn, Grace Wilder and others; but for white prefers Lizzie McGowan; for pink a variety called by him Pride of Boston, which, indeed, he considers the most profitable of all except Buttercups.

Mr. Cook grows really fine carnations, and a good many of them, and so his opinions were listened to with interest; but there was no debate afterwards.

Business generally has been very fair during the week, despite the weather, which is tropical one day and arctic the next, a goodly number of receptions and parties helping things along. Possibly the bad weather really helps the market for white flowers, as it certainly increases the amount of funeral work.

More anon. MACK.

Connecticut.

Mr. J. S. Allen was appointed secretary of the Hartford County Horticultural Society, in place of Mr. C. H. Pember, who has resigned.

Governor Bulkeley of Connecticut has invited all persons interested in the World's Fair to meet at the State Capitol on Feb. 22. It is desired that all florists and nurserymen interested in the Fair will be present.

The Board of Directors of Storrs' Agricultural College were re-elected at their last meeting. This college has done much in the interest of horticulture in the state.

Mr. Wm. H. Rand, representing Wm. Elliott & Sons of New York, was in Hartford the past week. Mr. Rand reports a good trip.

For many years the florists have been talking of forming a Connecticut Florists' Society, but nothing has ever been done. It is desired that any florist, seedsman, nurseryman or florists' supply man of the state, who is interested in the forming of a state society, will forward his name and also his ideas of a state society to the following address: Florist, P. O. box 1,015, Hartford, Conn., before March 1. Let us hear from everyone.

Boston.

At the meeting of the Massachusetts Horticutural Society on Feb. 13 there was a fine display of camillia blooms shown by Mr. F. B. Hayes, and flowers of forced hardy shrubs; also, Christmas roses and native cypripedi by C. J. Dawson.

Mr. C. M. Atkinson showed some fine plants of a grand single violet which came fom St. Augustine, Fla., some years ago, and which he alone has in this vicinity. He also exhibited a plant of Sander's Cattleya labiata, bearing three fine flowers.

The long talked of bowling contest between members of the G. & F. Club to decide who should be the owner of the cup won at Toronto, came off at the Allen gymnasium on Monday, Feb. 8. The cup was won by W. H. Elliott with a score of 486 for three games. W. J. Martin came second with a total of 458 and L. H. Foster third, with 454. There were 14 contestants all together. Nine of them were Dorchester men and with this numerical advantage they feel rather dejected over the fact that the cup went to Brighton.

A meeting for the purpose of organizing a permanent bowling club under the auspices of the G. & F. Club was held at the Tremont House on Feb. 13. There were about twenty gentlemen present, and much enthusiasm was manifested. A membership list was opened and is already half full, the number being limited to twenty-five.

Jackson Dawson has some fine plants of the beautiful Andromeda speciosa in full bloom at the present time. This is one of the loveliest as well as most easily forced hardy shrubs.

There are some fine blooming plants of azalea in most of the florists' windows, among which the peerless Vervæneana stands out pre-eminent.

MEDFIELD, MASS.—J. W. Paige, for the past twenty five years a florist of this town, died on January 23. He was widely known and much esteemed in the community. He had been a member of the Society of American Florists for the past two years.

UTICA, N. Y.—The Florists' Club met on February 3, at Bagg's Hotel. The violet disease was the topic for discussion. Mr. Peter Crowe claimed that the disease is a fungous growth, which is subdued most readily by placing sulphur and limeon the heating pipes.

Notes from the Buffalo Convention.

THE EXHIBITION.

Displays of older sorts were as follows: J. Breitmeyer & Son of Detroit showed Century very fine in their collection; the Essex Heights Floral Co. made a large display; Messrs. Geo. Smith. J. M. Gasser, H. Dale, Chas. T. Starr, Webb Bros., W. Muston, Geo. Hancock, J. H. Rebstock, Edward Swayne, Nathan Smith & Son and others showed good collections; T. B. Lewis shows Nellie Lewis and others, the former was also shown by Messrs. Vick and Hill; J. A. Smith exhibited Garfield in good shape. White seedlings not yet sent out were shown as follows: White Beauty, by L. Fawcett; Florence Van Reyper, by Essex Heights Floral Co.; a fine collection by Fred Dorner, three of them grand; other white seedlings by J. Breitmeyer & Son and Chas. T. Starr. In light pink, seedlings were shown by Fred Dorner, two especially fine, Grace Battles by Edwin Lonsdale, and dark pink seedlings were shown as follows: Princess, by Lothrop Wight; Rosalind, by J. Breitmeyer & Son; Tendress, by Essex Heights Floral Co.; Richmond and Spartan, by Fred Dorner. Crimson seedlings, by Fred Dorner, improvements on Anna Webb. Dorner's number 72, a fine scarlet, also five grand fancies from Dorner, whose number 37 was of especially fine form; Golden Triumph, by R. T. Lombard, and Puritan in good shape by Wood Bros.; White Dove, Sea Gull and Mrs. Hitt in good form by Dorner; good plants of Mrs. Fawcett, by Mr. Fawcett.

Webb Bros., vase of seedlings; Wm. Scott, vase including a fine pink; Fred Dorner's whole collection was a revelation, simply magnificent, and the room was packed with visitors; Snow Crest Daisy, by Wm. F. Dreer.

The badge subject was discussed and postponed indefinitely.

On the president's table stood vases of grand Mermets from Gasser and Webb Bros.

Chief John Thorpe, Sec'y Wm. J. Stewart, Professors J. C. Arthur and L. H. Bailey were unanimously elected honorary members.

Mr. Schoenfeld praised warmly the hardy yellow border pink Germania (referred to in AMERICAN FLORIST, issue of Jan. 28, page 522), but said he was unable to get either seed, cuttings or layers from it.

The Committee on Nomenclature presented their printed report containing names and descriptions of new varieties registered by various growers. It was voted that every seedling registered with this society shall have filed with it parentage and pedigree as far back as possible.

Vice Presidents for 1892 were elected as follows: For New England, Benj. Grey, Malden; for Middle States, William Scott, Buffalo; for Western States, Fred Dorner, Lafayette, Ind.; for Northwestern States, R. J. Mendenhall, Minneapolis; for Pacific States, C. J. Haettel, Redondo Beach, Cal.; for Canada, Walter Muston, Deer Park, Ont.

NEWPORT, R. I.—An extensive petition has been presented to the City Council, signed by prominent residents in the vicinity, representing that Mr. J. M. Hodgson's lily pond is the cause of excessive wetness in the neighboring sub soil, and asking that the pond be filled up. The petition was referred to the committee on streets and highways.

St. Louis.

The meeting of the Florists' Club on Feb. 11th, was well attended. The business transacted was for the most part in connection with the list of premiums for the 2nd annual chrysanthemum show. The expected discussion on growing chrysanthemums for exhibition purposes, which was to have been led by Mr. Koenig, was postponed on account of the lateness of the hour. A committee was appointed to revise the constitution.

Trade has been exceptionally good. Flowers of all kinds are scarce, except violets and colored carnations. This is especially true of roses. Not a few would-be customers were disappointed on Saturday with the words "Not a rose in the house" and it might have been added with truth in many cases, and very few of any other flowers for that matter. Set work keeps up to the average. Prices average about the same.

Probably the most expensive and tasty piece of table decoration of this season was done last week at the Southern Hotel by Mrs. Ellison, who has already established quite a reputation in this line of work.

The center piece contained a large loose bunch of Easter lilies, around which the decoration resolved itself into a piece of scroll work. Immense quantities of Von Sion daffodils, narcissi and freesias, all in small glass vessels, nestled among the wealth of maidenhair fern, each separate piece surmounting a circular mirror forming a simple but very artistic arrangement. Sixteen and a half inches were allowed for service.

A plant of Eupatorium ianthinum is in bloom at the Missouri Botanical Garden. With its large, serrate leaves and terminal corymbs of purple flower heads, it forms an attractive house plant. It does not bloom very freely with us. A remarkable plant of Pittosporum Tobird is also in full bloom and fills the air with its perfume. This plant stands about six feet high and is about four and a half feet in diameter. Manettia bicolor is showing itself to advantage at the garden just now. The profusion of scarlet and yellow flowers make a pleasing sight. It does not prosper in this locality when planted during the summer. The excessive heat and clayey nature of the soil may account for this fact. J. W. D.

Philadelphia.

In a circular letter addressed to the trade, in reference to the proposed flower market, Mr. Grigg says that "owing to the lateness of the season and in view of existing contracts, it is deemed inadvisable to continue further efforts towards starting the wholesale market or exchange as proposed, at the present time. In the meantime plans will be modified to meet the changed conditions, and a centrally located headquarters will be opened under the title of the Philadelphia Flower Co. where cut flowers, plants and other goods will be received and sold upon commission. Growers desiring to do so will be welcome to the free use of this establishment as their city headquarters and facilities will be provided for their accomodation." Mr. Grigg adds, "knowing full well that no good thing was born and carried to completion in a day, we will continue to 'agitate' on this line and will use every endeavor to put into operation plans which shall have for their object the betterment of the florist trade in this city."

Trade has been fair the past week, though there has not been the activity we expect to see at this time of the year. Hybrid roses are now to be had in quantity. Heacock and Anderson are cutting some fine Brunners and Laings, both having houses worth going to see. The plants are very well set with buds and the flowers are cut with good long stems. There will be a continuation of this stock until spring, as other houses are in various stages of growth and look very promising. Mr. Heacock's houses of Brides and Mermets are particularly fine. A large tank with a coil of steam pipes in the center is used to heat all the water required for watering.

One large grower thinks seriously of giving up the forcing of hybrids early, as he says that after overcoming the many difficulties that seem to stand in the way of producing good flowers, they must come to the market when there is a good demand, otherwise the prices realized will not pay for the trouble.

If all the baby rubbers that are to be seen in this neighborhood, manage to live through the various tribulations of childhood there should certainly be enough to supply the demand next fall, they are in the hands of men who will likely make a success of them.

The prices of roses and other flowers remain about the same, with the demand equal to the supply. Tulips and narcissus are now very fine and in good demand.

Robert Craig has returned from Summit, and says he feels much benefited by his trip, he is still weak, but is slowly gaining strength, and with the return of spring will no doubt be himself again.

The interest in the Bowling tournaments at the club is increasing, in the first class. Kennedy is now leading with McLean a good second. Kennedy is now the fourth man who has had the lead and many changes are expected before the prize is won. Campbell and Crawford head the list in the second class, while Knopp and Watson are the first and second in class three. In the practice games many high scores are put up, 200 or better is now seen almost every day, John Westcott having several such scores recently. The pool tournament seems to have been sidetracked, the committee ought to switch it on again.

Edwin Lonsdale has one of the prettiest benches of Cypripedium Lawrencianum in the country. He has been cutting a good many blooms of Dendrobium formossum giganteum, which have brought as good prices as cattleyas. His collection of dendrobiums and cattleyas is quite extensive. Pointing to a cypripedium seed pod he says, "You see Pitcher & Manda and I are both in the same business of hybridizing, only I am a million or two behind them, that's all." A house of carnations of every hue, with tagged seed pods innumerable, gives some idea of the study and labor Mr. Lonsdale is putting into the improvement of the carnation, and as he does it with a method, there is no doubt that within a short time great results will be apparent. He loves the work and goes into it with heart and soul. "There are lots of things we fellows don't know about this business yet, and I'm glad of it", he says.

WARREN, O.—The supply was not nearly equal to the demand at the holidays. Prices about the same as last year. Trade is brisk now.

COLUMBUS, O.—C. A. Roth, florist, reported damaged by fire Feb. 13.

Washington.

Business in cut flowers is very active here at present. Fine roses command exceptionally high prices. The White La France, Pierre Guilliot and Beauty are seemingly the favorites, but the supply is not always equal to the demand. Lilies of the valley, tulips, hyacinths, jonquils and narcissus are plentiful, while good violets seem scarce, and even the standard roses are by no means too plentiful.

At the Washington Assembly ball, which took place this week in the spacious white and gold banquet hall of the Arlington Hotel, the leading feature of the decorations consisted of arches, dados and panels made of South Carolina palmetto and pine boughs with an abundance of canes on the latter. The effect was quite striking and pleasing. The favors for the ladies consisted of tiny prettily made up straw swan-like baskets some eight inches long filled with lilies of the valley, violets, pink carnations and select Perle buds arranged just below the balcony on a bank of green, at the base of which was an immense mirror encased in smilax and ferns, upon the face of which floated a stately white swan daintily decorated with garlands and surrounded by his progeny laden with floral favors.

Montreal.

The last meeting of the club here was a lively one. After routine business a motion to have the nomination of officers take place at the meeting previous to the annual one, was voted down. The main argument against it being that it was unnecessary and that nominations and elections were better on the same night. Next came the "pull de resistance" of the evening, this was a motion to affiliate and assist the Horticultural Society, now that the society was in the hands of practical men with an enthusiastic secretary, to try and work it up again. Some of the club members, however, refused to see any good in the society and after discussing the question pro and con for about an hour and a half, the motion got six months hoist.

The annual social will take place on Thursday evening, the 18th inst, at the Athletic club house, where supper, dancing etc. will be enjoyed by some, others will probably try their speed on the piece of road known as the 100 yard dash. Business generally is fairly good. The weather has been simply wretched for flowers, as it has snowed more or less for about a month nearly ever day.

The directors of the Horticultural Society appointed D. Williamson Sec'y, at the last meeting of the board. Mr. W. has been instructed to communicate with the Worlds Fair Chiefs in respect to space for an exhibit of fruit from this province, which will probably open the eyes of some people, at least so far as apples are concerned. They also intend to have the exhibition in September next a credit to the city and not let people go away disgusted. J. B.

"Chrysms."

How will "Chrysms" do for short? "mums" is slangy, "Chrysanths" is frivolous, but "Chrysms" seem to me to be both dignified and euphonious.

R. FERRIS.

BALTIMORE, MD.—The Franklin Davis Nursery Co. has been incorporated here with a capital stock of $100,000, to carry on the nursery business.

Toronto.

Trade lately has been in about its normal state for this time of year. Bulbous stuff is plentiful, but there does not appear to be a glut. Some very good violets are coming in now too, and they go out as fast as they come in.

Mr. Aylett, gardener for a long time at Goldwin Smith Esq's. place (the Grange) was reported to be dying from the effects of the "grippe." Mr. A. was a good old-fashioned, kind hearted English gardener, and would be very much missed amongst the fraternity.

Most of the florists' windows nowadays besides being gay with hyacinths, tulips etc., have a tone given to them with plants and sprays of orchids. Two years ago it was a very rare thing to see an orchid here except at a few private places. We are progressing. E.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By one who knows nothing; 20 years in the business. Address ALPHA, care American Florist, Chicago.

SITUATION WANTED—As a cut flower worker by a young man 24 years old; 7 years' experience. Address C. DORSEY MISH, Lebanon, Pa.

SITUATION WANTED—By young man in a wholesale establishment, to learn the trade. References. Address Box 312, Waynesboro, Pa.

SITUATION WANTED—By practical florist to take charge of place; thorough commercial experience. Age 29; single. Good references. Address ENERGY, care American Florist, Chicago.

SITUATION WANTED—By young man, single, 5 years' experience in growing and forcing roses; best reference as to being sober and steady Address Box 93 Coatesville, Pa.

SITUATION WANTED—By a first-class florist and rose grower; commercial or private place—private preferred; sober, industrious; best of references; 25 years' experience. Address FLORIST, care Ludwig & Richter, Allegheny City, Pa.

SITUATION WANTED—By competent florist and gardener on private place; age 30, single, German; 7 years charge of a place; 10 years in this country. Best of references. Address CHAS. TAILBE, Penna. Hospital, 8th & Spruce Sts., Phila., Pa.

SITUATION WANTED—By a thoroughly practical gardener—private place. Has had charge of some of the best places around Philadelphia. First-class references. Address G S, care John Burton, Chestnut Hill, Philadelphia.

SITUATION WANTED—By a first class German florist; single, 30 years old, about 10 years in this country; understands well to propagate and raise cut flowers and hothouse plants; private or commercial. OTTO LIEB Box H, Edgely, Bucks, Co., Pa

SITUATION WANTED—By a first class man, as head gardener; have had 20 years' experience in Europe and America; understand all plants, orchids especially; have laid out some of the foremost places in the country. Address S. J. F., care Am. Florist.

SITUATION WANTED—In nursery (western place preferred); practical experience in grafting, pruning and propagation of fruit and ornamental trees and shrubs, general greenhouse work, irrigation; age 25; references. Address Q, care Am. Florist.

SITUATION WANTED—By a first-class gardener having a thorough knowledge of all branches of gardening. Had several years' experience in this country. Can furnish the best of references Address R C. care W. J. Stewart, 67 Bromfield St., Boston, Mass.

SITUATION WANTED—By a thorough, practical florist, fully competent to take charge of a large commercial place. Has had experience in leading places in England and the states. First-class references. Good wages expected. Address COMPETENT, care American Florist.

SITUATION WANTED—As manager or foreman by German of 30 years; married; in private or commercial place. Held such position for the last 6 years. Thoroughly versed in growing roses, carnations, violets and all other florists' stuff. Good references. CHAS. JOHNSON, Jackson Ave. Jersey City, N. J.

SITUATION WANTED—By a thorough practical florist and gardener, 14 years' experience, as manager or foreman in a first class wholesale or retail establishment; well posted on general greenhouse stock, roses, carnations, chrysanthemums and violets a specialty, also good landscape gardener. Adrress, stating salary B S, care Am. Florist.

SITUATION WANTED—By a practical gardener and florist, competent to take charge of a large place where roses, carnations, violets, smilax and bulbous stuff is grown; experience in making up, 22 years in the business, sober and good disposition, aged 42; have a son, a hustler about greenhouse, can steamfit and run steam boiler, aged 19. Address R, care Am Florist.

SITUATION WANTED—By gardener in private place; married, small family; 18 years' experience; have a general knowledge of the business; understand the cultivation of grapes, etc. under glass; is a good plantsman and vegetable grower. Wife can make butter if required. Can be well recommended from last employer. Address W B K, 7 Morgan St., Somerville, Mass.

SITUATION WANTED—By a thorough, practical florist and landscaper; fully competent to take charge of a first-class private or commercial place. Has had experience in leading places in Switzerland and France, and in this country for 5 years. Swiss; married: age 30. First-class references. Good wages expected. Address HENRY RELLSTAB, 215 High St., West Mt. Vernon, N. Y.

WANTED—Good man to work in greenhouse. THOMAS F. DELAHUNT, 13th and Potter Sts., Chester, Pa.

WANTED—Catalogues of florist and nursery stock. FAIRVIEW PARK GREENHOUSES, box 29, Mapleton, Ind.

WANTED—A good, reliable man for growing general class of plants and cut flowers. JNO. D. IMLAY, Zanesville, Ohio.

WANTED TO RENT—Greenhouses, dwelling and some land near market. Address WISE, Mt Prospect Ave., Newark, N. J.

WANTED—Vegetable gardener for public institution. Wages $40 and found. Address with full particulars A S, care Vaughan's Seed Store, Chicago.

WANTED—Competent gardener and florist; sober and industrious; for commercial place. Man familiar with irrigation preferred. Address W. N. TEN EYCK, Boulder, Montana.

WANTED—Cut flower man, first class, for A1 trade in big western city. Address with full particulars W, care Vaughan's Seed Store, Chicago.

WANTED—On private place in suburb of Chicago a steady man experienced in greenhouse and garden work; must be a worker with references; state wages. A B, care Am. Florist, Chicago.

WANTED—Thorough working florist, either on salary or as a partner. Party with a few hundred dollars to invest preferred. References. Address C S F, care American Florist, Chicago.

WANTED TO RENT—With privilege to buy by 1st or 15th of March, a garden business with 2 or 3 acres of land in good location where a live man could make it pay. Address CASPER LONG, Oconomowoc, Wis.

WANTED—A good florist and gardener; single. Steady work; salary $40 a month and board. Must be sober and honest, and come well recommended. Address MATH. KRANZ, Great Falls, Montana.

WANTED— or general greenhouse work, a young man who has had some experience and who desires to improve his knowledge of the trade. Address, with all necessary particulars and wages desired Assistant, P. O box 502, Cincinnati, O.

WANTED AT ONCE—A capable young man with some experience in soliciting market gardeners' trade and putting seeds, will find permanent position with prospect of advancement; state experience and wages expected. Address HARRY CHAAPEL, Williamsport, Pa.

WANTED—Correspondence with commercial or private party in search of first class florist and gardener as foreman by thoroughly competent man; well posted in all branches of the trade; specialties roses, carnations, violets, cyclamens and all sorts of decorative plants; married, no family; 23 years' experience; best testimonials Please state wages W. MILLER, 1019 Seventh St. N. W., Washington, D. C.

FOR SALE—Five greenhouses and stock on large lot, location best in the city, with a good trade. Address WM MILLER, box 39 Chillicothe, O.

FOR SALE—150 feet frontage, 164 feet deep, only 4 miles from Chicago, Ill., with three greenhouses in full stock, and a neat six room cottage. Apply for particulars, O F, care American Florist.

FOR SALE—Two greenhouses, well stocked with general line of plants in healthy condition; good dwelling house, wind engine and 3 to 5 acres of good land; natural gas; town of 5 000. For further particulars address P. O. box 430, Portland, Ind.

FOR SALE—At the low figure of $2000, a well established florist business located in the heart of the city of Portland, Oregon, containing 4 500 square feet of glass, well stocked, and dwelling house with store. Rent $30 per month. For further particulars write to P. HEFTY, Portland, Oregon

FOR SALE—Eight miles from Boston on Boston & Maine R. R. greenhouse establishment comprising four hothouses, containing 8,000 feet of glass; dwelling of seven rooms and one acre of land; on two streets; land worth two-thirds of whole price asked; a bargain. For particulars apply to, or address JAS. ASTLE, Melrose Highlands, Mass.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Exhibiting Roses.

In this issue we present an engraving from a photograph of a display of roses at the Madison Square exhibition at New York last November. The loose arrangement of the flowers and the massive, richly decorated ware in which they were placed, made them a much more attractive feature than when displayed in smaller bunches without these accessories. Such displays are to be highly commended, and we trust that exhibition managers generally will profit by a view of the one illustrated.

WE HAVE ADDED two more new features to our forthcoming trade directory and reference book. They are lists of leading Park and Cemetery Superintendents of America. We believe that these lists will be a great convenience to the trade in many ways. We shall also give a list of Botanic Gardens in America.

STARK BROS., the nursery men, Louisiana, Mo., are to be commended for the fruit illustrations they are sending out. The engravings are by the half-tone process, direct from photographs. They are bound to be accurate and carry conviction every time.

YOU WILL certainly want a copy of our new Directory and Reference Book, to be issued this month. The price is $2 and it will be worth many times that to you. Order a copy now.

EXCELLENT photographs of Begonia Baumanni and flower spikes of Gladiolus Nanceianus have been sent us by M. Victor Lemoine, Nancy, France.

CEDAR Pot Labels, makers of such would do well to advertise in the Florist. They are enquired for.

CARNATIONS.

Send for trade list of ROOTED CUTTINGS.

J. J. STYER, CONCORDVILLE, PA

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

Mention American Florist.

CLEMATIS.

Strong heavy plants doz. $4.00
Lighter, equal to imported " 3.00
ROSES H. P. 2 year, own roots, choice kinds per 100 $10.00
DAHLIAS — 50 vars., whole roots, proved sorts per 100 $8.00

F. A. BALLER, Bloomington, Ill.

Mention American Florist.

United States Nurseries.

Our Trade Catalogue is just received from the printer. If you have not received one by this time, send in your business card and we will forward you a copy. In this catalogue you will find everything you need in **Seeds, Plants** and **Bulbs.**

Respectfully,

PITCHER & MANDA,

SHORT HILLS, N. J.

SOW THIS WEEK.

Timely Hints on Seed Sowing; from Gardiner's, Philadelphia.

Remember, you were a little late last year with your sowing. Be in good time this season. NOW is an appropriate time for sowing the undernoted species:—

COBEA.	CARNATION, (Marguerite).
PANSY, (International Prize Strain).	COSMOS.
PETUNIA, (Nana).	LOBELIA.
PETUNIA, (large fl'g).	PHLOX, (Nana).
VERBENA.	PHLOX, (large flow'r'g).
AMPELOPSIS.	THUNBERGIA.
CYCLAMEN, (Giant str'n)	TORENIA.
CHRYSANTHEMUM, (Golden Gate strain).	PYRETHRUM, (Uriginosum).

Full descriptions of all the above species and many others in our new Trade List. Send for a copy. A **trade packet** of any of them supplied **for 50c** each. On orders for $2.50 or over we will supply on application,

"ONE OUNCE SMILAX, FRESH SEED, CROP 1891, FREE!"

as a premium. Remember the Smilax Seed is **ABSOLUTELY FREE,** as we give full value on all the other seeds.

Free Smilax for a Limited Time Only!

Remember us on **Gladioli, Begonias, Tuberoses, Caladiums** and other **Spring Bulbs.**

WE SELL CHEAP,

But don't imagine that quality is absent. Quality first, price second. We are noted for reasonable prices combined with perfection in quality.

JOHN GARDINER & CO.,
PHILADELPHIA, PA.

Mention American Florist.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

SEED POTATOES SEED

I have a large stock of all the leading **NEW** and **STANDARD** varieties.

Prices on application. In submitting list always state quantity of each variety wanted. Catalogue on application

E. H. VICK, 631 Park Ave., ROCHESTER, N. Y.

CARNATIONS.

Rooted Cuttings of the three leaders in the Boston market, TIDAL WAVE, SILVER SPRAY, and PORTIA; extra fine stock at lowest prices.

H. L. CAMERON, No. Cambridge, Mass.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Special Attention.

First Importation of the Season of 100,000 pounds of

CYCAS REVOLUTA,

in sizes from 6 inches to 6 feet, guaranteed to be the only TRUE LONG-LEAVED VARIETY, which for beauty in foliage is far excellent to any of its kind; fast becoming a most favored Palm, highly recommended by most leading nurserymen and florists.

By weight, fronds and roots cut off.

Price, not less than per 100 lbs. $10 00.
Per 1000 lbs. $85.00, f. o. b.

Extra inducements on larger lots.

DELIVERED FROM JAN. 20th.

Send orders for RHAPIS FLABELLIFORMIS. Delivered from Feb. 1st.

Per 100 shoots, from $25.00 to $40.00.

Send for new Catalogue.

FELIX GONZALEZ & CO.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.

Verbenas

FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4 00	$30 00
" " Rooted Cuttings	1 25	10 00
General Collection, stock plants	3 00	25.00
" " Rooted Cuttings	1.00	8 00
Lemon Verbenas, 1 year old, strong	6.00	

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1 00	8 00
Feverfew (Little Gem), extra strong	2 00	15.00
Salvia splendens, extra strong	1.50	12 00
Moon Vine	2 00	
Ageratum, blue and white	1 25	10.00
Achyranthes Emersonii etc	1 00	
Heliotrope, light and dark—no rust	1.50	12.00
Begonias, assorted, fine	2 00	
Gazenias, splendens and variegata	2 00	

WOOD BROTHERS,
FISHKILL, N. Y

KAE SHEAN CO.,

Growers of CHINESE SACRED LILY,

HONG KONG.

Goods can be obtained at the following houses:
John L. Childs..... Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R. Pierson..... Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

Geo. W. West,

GROWER AND EXPORTER OF

BERMUDA BULBS

Lilium Harrisii,	Lilium Longiflorum,
Freesia Refracta Alba,	Calla Lily.
Amaryllis Johnsonii,	French Cannas, best vars.
Amaryllis Regia,	White Roman Hyacinths.

CYCAS PALM LEAVES A SPECIALTY.

SHELLY BAY, BERMUDA.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price-list write for same
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

JOHN C. BRUCKNER,
WHOLESALE DEALER IN
CUT FLOWERS,
AND FLORISTS' SUPPLIES,
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
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Wholesale Florists
LA ROCHE & STAHL
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13th and Chestnut Sts.
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ELLISON & KUEHN,
WHOLESALE
FLORISTS
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S PENNOCK.)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

SMILAX.
4 to 6 feet long, heavy, 20 cents per string.
E. DAVIS & SONS, Morrison, Ill.

WANTED—CUT SMILAX.
WISCONSIN FLOWER EXCHANGE,
131 Mason Street MILWAUKEE, WIS.

25,000 ROOTED CUTTINGS
CARNATIONS
NOW READY.
New and Standard sorts, all grown from fine healthy stock. Send for price list.
GEO. B. WHITEHEAD, Green's Farms, Conn.

Wholesale Markets.

Cut Flowers.

	BOSTON, Feb. 16.
Roses, Bon Silene	3 00@ 4.00
" Gontier, Niphetos	4 00@ 6 00
" Perle, Sunset	6 00@ 8.00
" Mermets, Brides	8 00@10 00
" Hybrids	25 00@40 00
Carnations	1 00@ 2 50
Harrisii, Callas	8.00@10.00
Violets	1.00@ 1 25
Valley	4 00
Tulips	3 00@ 4.00
Romans	2 00@ 3 00
Daffodils	4.00@ 6.00
Marguerites	1.00
Nasturtiums	1 00
Freesia	2 00
Smilax	12.00
Adiantums	1.50

	NEW YORK, Feb. 16.
Roses, Gontiers, Perles	4 00@ 6 00
" Mermets, Brides	8 00@10.00
" Cusins, Watteviles	8 00@10.00
" La France	8.00@15 00
" Beauties	50.00@100 00
" Niphetos	4.00@ 5 00
Valley	2 00@ 4 00
Tulips	2.00@ 3 00
Daffodils	4.00@ 6 00
Narcissus, small	2 00
Callas	10.00@12.00
Harrisii	12 00@15.00
Carnations, Violets	1.50@ 2 00
Freesia	2 00
Cattleyas	50 00
Smilax	12 00
Adiantums	1 50

	PHILADELPHIA, Feb. 16.
Roses, Brunners	60 00
" Laings, Beauties	30 00@35 00
" La France, Albany	10.00
" Mermets, Brides	8 00
" Bennetts, Hostes	8 00
" Cusins, Watteville	6 00@ 8 00
" Perles, Niphetos	5 00
" Gontiers	4 00
Carnations	1.50@ 2 00
" Wilders	2.00@ 3 00
Mignonette, Romans	2 00@ 4 00
Freesia	1 50@ 2 00
Tulips	5 00
Violets	1.25
Valley	4 00@ 5 00
Smilax	15.00

	CHICAGO, Feb. 16.
Roses, Am. Beauties	15 00@25 00
" Mermets, La France	5 00@ 8 00
" Albany, Bride, Waban	6 00@ 8.00
" Bennetts, Dukes	5 00@ 8 00
" Perle, Niphetos	4 00@ 6 00
" Gontiers	3 00@ 6 00
" Bon Silenes	3 00
Carnations, short	.75@ 1.50
" long	1 50@ 2 00
" " fancy	3 00
Romans, Narcissus, Valley	3 00@ 5 00
Callas, Harrisii	12 50@15 00
Violets	1 00@ 1 75
Smilax	15 00@20 00
Adiantums	1 25@ 1 50
Tulips	3 00@ 5 00
Daffodils	4 00@ 6 00
Freesia	3.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

CUT SMILAX
Over ¼ acre solid beds. First-class quality, 25c. per string from Nov. 1st to May 1st. Orders by wire promptly filled.
JOS. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
BOUQUET GREEN and FESTOONING of all kinds in any amount always on hand.
HARTFORD & NICHOLS,
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BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

GEO. MULLEN,
WHOLESALE FLORIST.
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

YOU MAY THINK
you know all about it, but do you? The use of **LONG'S FLORAL PHOTOGRAPHS** while taking orders of your customers will do more for you over and again than you might think. A trial is convincing to any enterprising florist. Circular list with prices, free.
DAN'L B. LONG, Florist,
BUFFALO, N. Y.

FLORAL DESIGNS,
The Cut Flower Worker's friend. Fine book of 160 pages. Send **$3.50** for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

NOTICE.

WHEREAS, Parties in the trade contrary to agreement and general understanding, and in violation of the principles of business honor and integrity, are offering and selling, rooted cuttings of Lizzie McGowan Carnation at a much less price than they agreed to so offer and sell the same. And

WHEREAS, I have the largest, finest, and healthiest stock in the country of this superb carnation, therefore, be it

RESOLVED, That hereafter my price for fine, strong well rooted cuttings of this valuable pure white **LIZZIE McGOWAN** Carnation will be $20 00 per thousand, and five hundred at thousand rate.

H. E. CHITTY.

Paterson, New Jersey, Feb. 10, '92.
Mention American Florist.

ROOTED CUTTINGS OF
Lizzie McGowan
CARNATION.
$3.00 per 100: $25.00 per 1000.
JOHN McGOWAN, Orange, N. J.

Rooted Carnations.

	Per 100	Per 100
HINZE'S WHITE	$10 00	$1 25
PORTIA	12 50	1 50
GRACE WILDER	12 50	1 50
SILVER SPRAY	12 50	1 50
LAMBORN	15.00	1.75

Cuttings put in Jan. 1, on Feb. 8 99 per cent. were well rooted.
DE WITT BROS.,
Cash with order. BRISTOL, PA.
Mention American Florist.

ROOTED CUTTINGS AND PLANTS,
From 2 to 4-inch pots.
CARNATIONS, 10 New and Standard varieties. 300 Primulas Chinensis and Obconica, flowering size, strong.
COLEUS, 5 best varieties. GERANIUMS. CHRYSANTHEMUMS. HELIOTROPES and other bedding plants.
Send for prices to
J. A. HAGSTROM,
PARKESBURG, Chester Co., PA.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

From Omaha.

I have made up my mind to stay with this growing business and make it larger and more of it.—*Frank T. Emerson.*

THE Yoakem Seed and Nursery Company, with a capital stock of $10,000, has been incorporated at Tyler, Tex., by L. W. Wells, John Boughton and J. P. Douglass.

THE STATEMENT of T. W. Emerson & Co., reads: liabilities $75,000, assets $25,000. At a meeting of creditors a committee of the latter recommended acceptance of a cash offer of 25 per cent, to be paid in one month.

SPINGFIELD, MASS.—The B. L. Bragg Co., with a capital stock of $40,000, has been incorporated. They will deal in horticultural and agricultural supplies and implements. The officers are N. C. Newell, Pres., and B. L. Bragg, Treas.

THE RECIPROCITY agreement between the United States and the British West Indies, which went into effect on Feb. 1, admits to this country free of duty, trees, plants, vines and seeds of all kinds, used for propagation or cultivation, also all packages or covering, in which these goods are imported.

KOKOMO, IND.—The thermometer registered 25° below zero here at 6:30 a. m. Jan. 20.

How do we KNOW that BURPEE'S SEEDS GROW?

Because they have all been thoroughly tested by us before they are offered to you. We know their Vitality and Vigor. We also know that their QUALITY IS THE BEST. We raise them from the choicest selected strains, either upon our own farm or subject to our personal supervision, and we are justified in the warrant given in our Catalogue—that there are NO BETTER SEEDS than BURPEE'S. From good seeds only can good crops be grown; nothing should induce you to risk planting any others. You can learn all about THE BEST SEEDS, and what they cost in

BURPEE'S FARM ANNUAL for 1892.

WRITE FOR IT TO-DAY.

W. ATLEE BURPEE & CO.
PHILADELPHIA, PA.

1892. GREGORY'S SEED CATALOGUE 1892.

For Over Thirty Years

we have always had very pleasant dealings together, the public and myself, and I again have the pleasure of presenting to them my Annual Vegetable and Flower Seed Catalogue. It contains the usual immense variety of seed, with such new kinds added as have proved to be real acquisitions. Raising many of these varieties myself, on my four seed farms, and testing others, I am able to warrant their freshness and purity, under such reasonable conditions as are contained in my Catalogue. Having been their original introducer, I am headquarters for choice Cory Corn, Miller Melon, Eclipse Beet, Hubbard Squash, Deep Head, All Seasons and Warren Cabbage, Etc., Etc. Catalogue FREE to all.

J. J. H. GREGORY & SON, Marblehead, Mass.

ROOTED CUTTINGS.

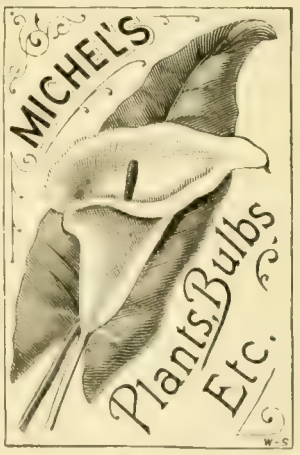
CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.

Mention American Florist.

BUY NORTHERN CROWN SEEDS
SALZER'S
FAIRY PANSY
This strain is the acme of perfection. Nothing that we can say can give you any adequate idea of their beauty and splendor. Just the strain for the Florists. My catalogue contains a colored plate of same. Note low price to florists.
PRICE.
Trade pkt. 50c., ½ oz., $1.75; oz. $3.25, ¼ lb. $12, ½ lb. $22. Choice Exhibition Mixed, $2.50 per trade pkt.
Mailed Catalogue free.
JOHN A. SALZER, LA CROSSE, WIS.

THE SOWER HAS NO SECOND CHANCE.
Good sower sees make the most of the first.
FERRY'S SEEDS
have made and kept Ferry's Seed Business the largest in the world—Merit Tells.
Ferry's Seed Annual for 1892
tells the whole Seed story—Sent free for the asking. Don't sow Seeds till you get it.
D. M. FERRY & CO., Detroit, Mich.
P. O. Box 1067



Write for wholesale list.
MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

SEEDS!
PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

FOR SALE—FOUR GREENHOUSES.

Containing 3,000 feet of glass; established 1874; well stocked; water heat with good boiler; all in good repair. Cut flowers a specialty—ready sale for them. Large dwelling house, nearly new, on same ground; all located three blocks from State Capitol. Buyer can step into well running business. Reasons for selling: poor health and advanced age. For terms apply to

FRED. SCHEIBEL, 402 E. Wash Ave., Madison, Wis.

Tobacco Stems.

I make a Specialty of packing stems for flower growers.

Prices and references sent on application.

H. A. STOOTHOFF,
417 E. 76th Street, NEW YORK CITY.

FOR RENT,
ON ACCOUNT OF BAD HEALTH.

Ten greenhouses with stock. This is one of the best places in the United States for shipping purposes. You can ship plants all through the South in Jan and Feb'y in open boxes, and that is a great advantage to a florist. You can establish a very large shipping trade from here south, as it is a great point to ship cut roses, as a man can ship all the roses he raises to Mississippi, Louisiana and Texas, and all other principal cities. There is one drawback to shipping roses from the North here—it is too far. This place has a large local trade and has been established since '88, and is all heated by low pressure steam. We will be ready to rent by the 1st of June—with or without stock—and that is plenty time to plant your roses. Those that are planted in July produce more roses for the holidays than any other time. This is a good chance for a man to get a big start on a little money. For further information, apply to H. MOORE, 54 Beal St., Memphis, Tenn.

Send for descriptive list of
CALIFORNIA RAISED and SELECTED, CHOICE JAPANESE IMPORTED CHRYSANTHEMUMS for 1892
JOHN H. SIEVERS,
25 Post Street, SAN FRANCISCO, CAL.

RARE SEED OFFER.

For sale 1 oz. each of high grade seed of fine pkt. each of Verbenas, Imp. Giant Pansy, Mammoth Stocks, Pkt. of Drumm. extra, Poppy, Japanese Sunset, Shirley Poppy, Crimson Viola, Antirrhinum white Platycodon blue, Morning Glory Plant, Hibiscus new Carmine & Orange Red, new Tomato The Stone. JOHN F. RUPP, Shiremanstown, Pa.



2,000,000 EVERGREEN CUT FERNS
NOW READY.

Special attention paid to supplying the wholesale trade.

Single thousand, $1.25; in lots of five thousand and upwards, C. O. D., $1.00 per thousand.

per barrel; 6 barrels, $5.00. 20 barrels, $15.00.

SPHAGNUM MOSS. Long, clean fibre, hand sorted, DRY or GREEN, $1.00 per barrel. BOUQUET EVERGREENS, $2.00 per barrel.

L. B. BRAGUE, Hinsdale, Mass.

ROSES.

A Chance to Triple your Money.

NOW READY. (Safe Arrival Guaranteed.)

50,000 ROSES, from 2-in. pots, $3 per 100; $30 per 1000.

Plant in 3 inch pots, and they will bring you from 10c to 15c each readily.

50,000 ROSES, from 3-in. pots, $5 per 100; $50 per 1000.

Plant in 4 inch pots and they sell readily from 20c to 25c each.

N. B.—Our stock is not forced nor are the plants long and drawn, but have an abundance of leaves and roots.

Varieties you can select from by the 100 or 1000, provided one or the other sorts is not sold:

Agrippina,
Archduke Charles,
Aline Sisley,
Archduchess M. Immaculata,
Bon Silene,
Chas Rovolli.
Comt. de Labarthe (D. de Brabrant),
Catherine Mermet,
Croquette de Lyon,
Hermosa,
Etoile de Lyon,
Gloire de Dijon,
Jules Finger,
La France,
Lady Washington,
Louis Phillipe,
Marie Guillot,
Malmaison,
Marie Van Houtte,
Miss Ethel Brownlow,
Mme Caroline Kuster,
Marechal Niel,
Mme. de Watteville,
Mme. Pauline Labonte,
Mme. Brett,
Mme. Abel Carriere (M. Noisette),
Mme. Jos. Schwartz,
Mme Laur Marring, (pure new Bengal),
Ophelia,
Perle des Jardins,
Queens Scarlet,
Rubens,
Suzanne Blanchet,
Sombreuil,
The Bride,
Reine Olga,
Pink Daily,
Nic de Waulier,
Waban.

We also have **50,000 HYBRID ROSES,** strong, 2-inch pots in 25 best leading sorts, $5 per 100; $50 per 1000.

20 000 4-INCH POT ROSES, $10 to $20 per 100 according to variety and quality.

POT ROSES, in bud and bloom, $20 to $25 per 100.

Wholesale and Retail Catalogue upon app'ication. Lists cheerfully priced and samples mail d if desired

FOR EVERYTH'NG IN THE FLORIST LINE,

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

Dwarf Budded Roses

The stock offered this season is of the same quality distributed by us last year and includes all the leading and popular varieties. Parties contemplating stocking up for spring sales will do well to place their orders at once, as plants are now dormant and can be shipped without any soil at reduced Express and Freight rates.

Alfred Colomb,
Baron de Bonstettin,
Baroness Rothschild,
Fisher Holmes,
Gen. Jacqueminot,
La France,
Mabel Morrison,
Magna Charta,
Merveille de Lyon,
Mons Boncenne,
Paul Neyron,
Prince Camille de Rohan,
White Baroness,
Queen of Queens,
Mme. Gabriel Luizet,

$12 per 100; $110 per 1000.

Antoine Mouton,
Boule de Niege,
Cavier Olibo,
Coquette des Alps,
Chas. Lefebvre.
Duke of Edinburgh,
Duke of Albany,
Eugene Furst.
Gloire de Dijon,
John Hopper,
Jean Liabaud.
Jules Margottin,
Louis Van Houtte
Mme Marie Finger,
Marie Bauman.
Mme. Eugene Verdier,
Earl of Dufferin,

$15 per 100; $130 per 1000.

A fine lot of MARECHAL NIEL ROSES with canes 10 to 12 feet long, pot grown, very strong, $1.00 each.

HENRY A. DREER,
714 Chestnut St, PHILADELPHIA.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

A Good INVESTMENT

FOR NEXT SEASON.

Sup-plant Mermets: plant HUGHS.

THE HUGH may be seen growing at the

SUNNYWOODS GREENHOUSES,

CIRCULARS ON APPLICATION. **AT CHATHAM, NEW JERSEY.**

Address **FRANK L. MOORE.**

ROSES FOR FLORISTS

La France, Perles, Gontiers, Woottons, Mermets, Brides, Niphetos; best quality, two eye cuttings,

FROM 3-INCH POTS, $5.00 PER 100.

We also have a large and well selected stock of **PÆONIES** of all colors, which we offer, single eyes, $5.00 per 100.

FOREST GLEN FLORAL CO.,

250 West Madison Street, CHICAGO.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

ROSES.

From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, at $4.00 per 100; La France and Duchess of Albany, at $5.00 per 100; Meteor and Waban, at $8.00 per 100; American Beauty, at $10.00 per 100; Climbing Perle and Climbing Niphetos, at $12.00 per 100.

We are headquarters for the Meteor and Climbing Perle des Jardins.

ALL FINE HEALTHY STOCK.

JOHN HENDERSON CO.,
Flushing N. Y.

ROSES.

FINEST STOCK FOR FORCING IN THE NORTHWEST.

SMITH FLORAL CO.,
77 Seventh Street, MINNEAPOLIS, MINN.
Mention American Florist.

JACK ROSES.

5,000 1 year old, 2½ to 3 feet high, well branched, $15.00 per hundred.

1,500 2 year old, 3 to 4 feet high, $18.00 per hundred.

JORDAN FLORAL CO.,
706 Olive St., ST. LOUIS, MO.
Mention American Florist.

DAWSON AND

Wicharaiana Roses. Every lover of plants must have these and other Novelties which we shall have ready for delivery in April. Descriptive catalogue of these and of an unsurpassed stock of Trees, Roses, Rhododendrons, Rare Conifers, Choicest Perennials, etc., sent free.

WM. C. STRONG & CO.,
WABAN, MASS.

ROSES, CARNATIONS, VIOLETS,

Bouvardias, Chrysanthemums, double white and single Primroses, Echeverias Alternantheras, Smilax, Coleus, Begonias Poinsettias, Cyclamens, Adiantums, Geraniums, Fuchsias, Pandanus Veitchii, Ferns, Hydrangeas, Palms, Dracænas, etc. Healthy plants; large stock, and low prices. Best new and old varieties. Write for price list.

HENRY SMITH,
30 Monroe St., GRAND RAPIDS, MICH.

1,200 BEST DOUBLE FEVERFEW.

ROOTED CUTTINGS $1 50 a hundred, or $15 for the lot.

HENRY KRIEKLE. 43 Jessamine St., St. Paul. Minn.

FRECH CANNAS

STRONG ROOTS

In assorted varieties and colors, at

$8.00 per hundred.

E. W. WEIMAR, Mt. Vernon, N. Y.
Mention American Florist.

Every Florist! Every Nurseryman! Every Seedsman!

SHOULD HAVE OUR TRADE DIRECTORY.

Address AMERICAN FLORIST CO., 54 La Salle St., CHICAGO.

Black Aphis on Alyssum.

Replying to "Kœniga" (page 563) he can easily destroy the black Aphis on sweet alyssum by using the following. To two gallons of water add one teaspooful (not heaping) of Paris green. After mixing thoroughly, syringe the affected plants, taking care that the spray reaches the lower as well as the upper surfaces of the foliage. One application will be sufficient.

Though as a usual thing, I do not believe in the use of poisons in the greenhouse, I note no bad effects on the alyssum from the solution mentioned above, and no stain or undesirable odor is left on the flowers or foliage. Until I began to use it the black fly made it impossible for me to profitably grow alyssum. But do not make the solution any stronger than recommended. N. SINGLER,

Washington Heights, Ill.

WHEN sending us small amounts in postage stamps, please select those of the 2-cent denomination.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

BEGONIAS.

2000 Begonia Gloire de Sceaux, $10 per 100

100 Begonia Manicata aurea, $16 per 100

50 PALMS, Areca lutescens, 3 feet high, 4 to 5 leaves, $1.25 each.

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GERANIUM,

MRS. OTTO

SCHUCHT



This Geranium is a dwarf, growing but 1 foot high, the entire stem is white with pink tints, the leaves are light green with white variegat on (not yellow), the young foliage is tinted pink but loses this tint when it is fully developed, flowers single, scarlet. It has been propagated and bedded out successfully for two years without sporting, excepting an occasional shoot of a pure white, but never going back.

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100 PLANTS FOR $25.

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Thirty minutes from London.

New Double White Daisy Snow Crest.



—)o(—

A most distinct variety and an improvement on all existing sorts. Its habit of growth and size of flowers, in comparison with older varieties, is gigantic. The flowers, which are borne on stout, stiff stems from 6 to 10 inches long, are of the purest white and full to the center. When fully developed they rise to a conical or sugar-loaf form, and well grown specimens will cover a silver dollar.

It makes an admirable hardy garden plant or may be forced for cut flowers under the same treatment as violets. $2 per doz.; $15 per 100.

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Lilium Candidum, Paper White Narcissus, Grandiflora, Double Roman, Incomparabilis, Aurantius double, Von Sion, Trumpet Major, Freesias, Allium, Anemones fulgens, A. Rosette, very early, and Cardinal's Hat, Amaryllis Vittata, Etc., Etc.

BENJAMIN RIMBAUD, Bulb Grower,

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WILL SEND on demand THE LIST OF HIS PRICES for the aforesaid Bulbs, to be delivered free Toulon Railway Station, and also free from packing and carriage expenses on board TO NEW YORK.

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GOLDEN TRIUMPH.

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Also a pink Carnation named "**DORINDA,**" a seedling of 1888—one of the best.

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PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN,** besides the best novelties and a full list of standard sorts.

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2 ¼-inch pots, $30.00 per 1000.

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SMILAX, 2½ inch pots	$1.50	$12.00
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Also a very choice assortment of Coleus and Geraniums. LANCASTER BEAUTY is the finest novelty in Verbenas ever offered; entirely distinct from all others. It sells at sight and no florist can afford not getting it. Perfectly clean well rooted cuttings $2.00 per 100. I have complete control of the stock, which is limited.

SMILAX AND PANSY season is soon here and I am headquarters for choice stock at low prices.

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Portia, Robert Craig, Grace Wilder and Hinze's White, $1.50 per 100
Tidal Wave, $2.00 per 100.
Lizzie McGowan, $3.00 per 100.

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Place your Orders at Headquarters for **"Grace Darling,"** **THE LEADING NEW PINK CARNATION of '92.**

Received First Premium at Penna. Hort. Society, Philadelphia. And Awarded Certificates of Merit and Honorable Mention at New York, Boston, and Baltimore.

Growers of Carnations exclusively, send for general price list.

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NOW READY. UNSURPASSED IN QUALITY.

Golden Gate, grandest new pure yellow; J. R. Freeman, fragrant crimson scarlet; Constancy, glowing bright scarlet; $3.00 per 100; $25.00 per 1000. We have a fine stock of these.

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Price of all other standard varieties on application. For well established plants from small pots see illustrated catalogue, mailed free.

Best home grown Double Excelsior Pearl Tuberose bulbs, $8.00 per 1000 by express.

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Winner of the Ladenburg Cup for best pink

CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

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NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

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Also an unlimited quantity of pips of the above varieties. Send for price list.

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All over our land new greenhouses are being erected, many by untrained men and women, and thinking that older heads (in business,) would be willing to give advice to such, I venture to ask (for the first time) for answers, through the FLORIST, to the following:

1ST. Located 200 miles from Kansas City and St. Joseph, about the same distance east of Denver, with abundance of land to grow plants or bulbs or shrubbery, (but no cut flowers trade, unless by shipment above distances)—what would be best to grow?

2ND. How far can cut flowers be shipped, to wholesale men, with good success? O. A. A. G.

Byron, Neb.

Obituary—Robt. J. Burgess.

It grieves me very much to announce the sad death of Robert J. Burgess, who lost his life at the recent Hotel Royal fire, Fortieth street and Sixth avenue, New York, Sunday morning, February 7.

Mr. Burgess was 22 years old, and was in the employ of the Klunder Company. He was the son of William Burgess, formerly of Glen Cove, L. I., the well-known Marechal Neil rose grower.

He was a young man highly esteemed for his many good qualities, and proved himself to be a most efficient florist, and will be missed by his employers and numerous friends. His friends will be gratified to know that his body was thoroughly identified.

He was buried from his father's house, 230 Seventh avenue, Brooklyn, Sunday, Feb. 14, at 2 p. m., in Evergreen Cemetery. A. W. MERRITT.

Manager Klunder Co.

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SPECIAL OFFER. Per 100

Var. Rose Geraniums, 2¼ inch	$ 5 00
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Begonia Rex, assorted	4 00
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"I have no doubt whatever but what you can recommend this seed very highly as likely to produce some choice and distinct varieties." EDWIN LONSDALE.

"Golden Gate" Chrysanthemum Seed.

A remarkable strain saved by an enthusiastic specialist, collected from **choice varieties only**, and matured under the sunny skies of California. The grower of this seed writes (under date of October 28th, 1891):

"In regard to the Chrysanthemums, I have about 2,500 seedlings in bloom and coming into bloom. I will try and send you some of my best varieties. I always grow them in a natural way without disbudding, as that is the best way to test the true value of a variety. I keep the very best for seed and destroy the balance. I have secured some beautiful varieties the past two years."

Mr. Edwin Lonsdale, Secretary of the American Chrysanthemum Society, (through whom we received the seed referred to above) has tested the sample and finds it of very strong vitality, and adds:

"I have no doubt whatever but what you can recommend this seed very highly as likely to produce some choice and distinct varieties."

The seed germinated freely in 8 days. The whole stock of this remarkable strain of seed has been placed in our hands for distribution. Trade pkts. $1.00 each. Apply early. Stock limited. **JOHN GARDINER & CO., No. 21 N. 13th St., Philadelphia.**

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Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine	$5.00	per 100;	$40.00	per 1000
TWO YEARS, 18x24 inches, fine	6.00	"	50.00	"
TWO YEARS, extra selected, 2½x3 feet, strong	7.00	"	60.00	"
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00	"	70.00	"

Packed in best manner and delivered to Express or R. R. free of charge on receipt of proper remittance.

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100,000 VERBENAS.

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Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

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Aralia Sieboldi, 2-inch pots	$10.00
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Areca lutescens, 2-inch pots	10.00
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Begonias, tuberous, single, finest flowers, distinct colors	10.00
Begonias, tuberous, double, very fine	20.00

(Begonias are started, but can be mailed for next three weeks)

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6 superb singles, distinct colors, for	$1.00
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Large packet seed of prize singles,	1.00
Half packet,	.50

Price list and pamphlet on culture, gratis.

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Coleus Rooted Cuttings.

S. B. Field,
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Mums.

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COLEUS. COLEUS. COLEUS.
ROOTED CUTTINGS.

By the.....Hundred
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By the.....Ten Thousand

Write me for prices.

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10 SORTS COLEUS at.....$1.00 per 100
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GREVILLEA ROBUSTA, 2 ft. high, $4.00 per doz.; 2-inch pot plants, $5.00 per 100.

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The strain we offer this year is far ahead of that sold last season with such satisfactory results. Only the richest colors have been retained, and the largest flowers selected for seed. Seedling plants are now preferred by the leading florists for spring sales because of their vigor and freedom from rust. With this strain to depend on there can be no doubt about the success.

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Smilax Seed, per lb. $8 " 60c. Gymnocarpa, " 50c. " " 35c.

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Our own grown Superior Strains.

TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

TESTED SEEDS of VICTORIA REGIA and all other WATER LILIES.

FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

ROSE HILL NURSERIES. **SIEBRECHT & WADLEY, New Rochelle, N. Y.**

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NOW IS THE TIME TO SOW SEED.

SINGLE OR DOUBLE MIXED.....trade pkt. $1.00
SINGLE TO COLOR (9 colors $4.00)..... " .50

Half packets if desired. Send for new descriptive catalogue.

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BEGONIA
AND CHOICEST CHRYSANTHEMUM SEED - 25¢ PER PKT.
"LIST FREE" T.H.SPAULDING., ORANGE, N.J.

CHRYSANTHEMUMS.

Discard old and unsalable varieties which every one has and no one wants to buy. Freshen your stock with new and recent prize winners. Your selection 100 plants, 20 kinds 5 of each, $3.00 expressed; post free, $3 50. Cash with order. Stock limited. Buy at once. A. Swanson, Eda Prass, Emily Dorner, Dr. Brigham, E. D. Smith, E. Stein, Innocence, J. Firth, J. Westcott, L. Cartledge, Anna Dorner, Mattie Bruce, Mrs. D. D. Farson, Mattie Stewart, R. Maitre, Colorado, J. C. Vaughan, Michigan, L. Canning, Syleth, R. George, Triomphe, Tyro, White Wonder, W. W. Lunt, Geo. Daniels, F. McDonald, E. G. Hill, California, Brilliant, Leon Frache, J. R. Pitcher, M. Ward, J. T. Emlen, Mrs. J. L. Childs, L. B. Bird, Baronald, A. Lunden.

T. H. SPAULDING, Orange, N. J.

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HYDRANGEAS, CALLAS, 3-in. Cheap.
BRAUER & RICHTER, McConnelsville, Ohio.
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VINCA MAJOR.

5 and 6-inch pots, strong, $2.50 per dozen. Will exchange for Roses; Brides, Mermets, Papa Gontier, Perle, Am. Beauty, Bon Silene.

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EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER
QUEDLINBURG, GERMANY.

Chrysanthemum Eva Hoyt.

This new Chrysanthemum gives promise of being a very acceptable addition to our list of yellow sorts. It is in the way of H. E. Widener but a brighter color, and it flowers later than that variety, hardly ever being in bloom previous to Nov. 20, and lasting until Christmas. In habit it is dwarf, much resembling Ivory in growth. It is anticipated that this variety will take rank as the best late yellow in commerce. It was raised by W. K. Harris who sold it to T. H. Spaulding.

NORFOLK, VA.—The twenty-fifth annual meeting of the Norfolk Horticultural and Pomological Society was held here last week and the following officers were elected for the ensuing year: G. F. B. Leighton, president; J. L. Babcock, first vice-president; E. V. White, second vice-president; W. I. Dickerman, third vice-president; Walter A. Edwards, secretary; W. G. Tate, treasurer. Col. Leighton has been president of this society for twenty-five years. It was decided to hold a floral exhibition in May and another in November. The society is to meet monthly in future.

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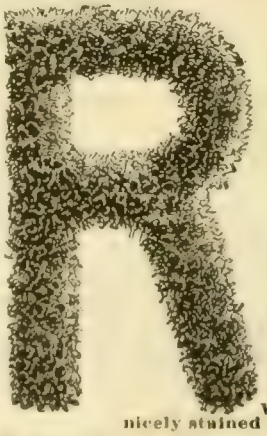
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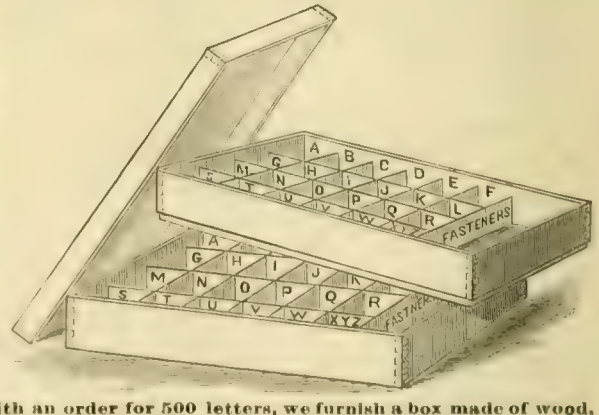
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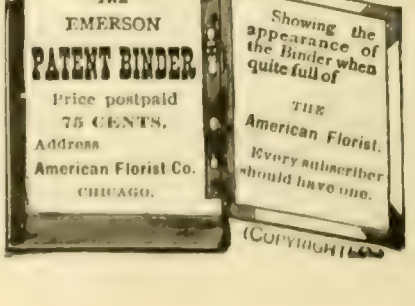
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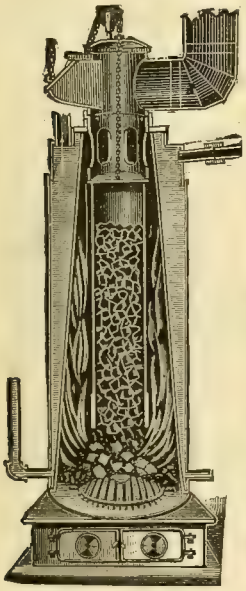
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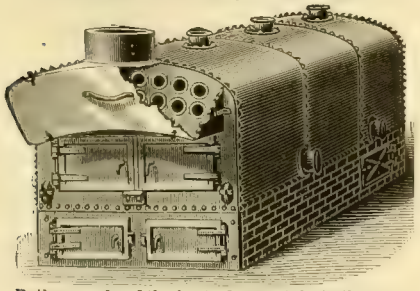
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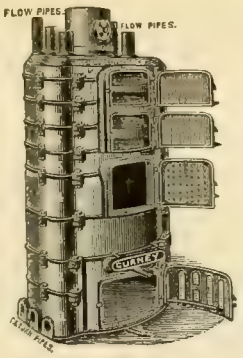
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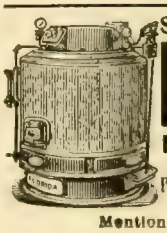
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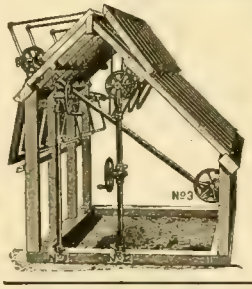
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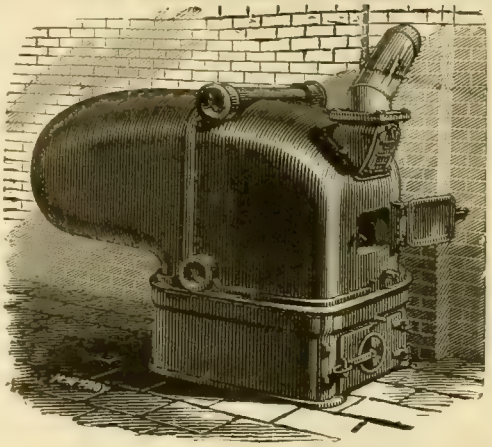
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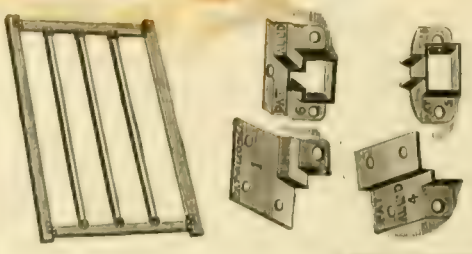
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American is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

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JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892.

AMERICAN CARNATION SOCIETY.
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Carnation Novelties.

The article in your Jan. 28 number by Mr. A. M. Herr was very good, witty and wise. But it seems to me there may be room for an honest difference of opinion. It is all well enough for a man to spend his time, bench room, brawn and brains on seedling carnations with merely the æsthetic side in view—the production of the ideal, the "Will-o'-the-Wisp;" that incomparable vision of a perfect pink, which, like to-morrow, never comes; that striving after the unattainable; for as the standard is neared it is shifted forward and never reached. Still we must strive, but in doing so we must take that road (consistent with honor) which leads in the most direct way to the pocket. For it is certainly a fact that most men enter the business of raising carnations not for glory alone, but as bread winners,—and most of us like a little butter on it, too.

Far be it from me to advocate the placing on the market of a seedling until we are satisfied it is, in some degree at least, better than any before it, but who shall be the judge? I hold to the opinion, there is no righteous judge but its owner, and the man who originates a flower which he believes to be a step in advance is not doing justice to himself unless he puts it on the market at once. Every man in the carnation trade should know the varieties already in cultivation. He should know whether a seedling produced by him is any improvement; and if he be an honest man he knows this better than any one else can tell him. By his judgment in this respect he must stand or fall. If he be at fault in that judgment, or if he errs more seriously and attempts to foist on the market an inferior article, sooner or later he suffers the consequence of his indiscretion: bad reputation, lost trade. I believe the course pursued by our late friend, Mr. Chas. T. Starr, to be the correct one. His seedlings were distributed at a good price but a year or two from the seed. The price being high, few were purchased by any one party, but it gave all an opportunity to test their merits and the way was opened to sell in larger quantities at a fair price the next year. I would certainly rather give a good round price per dozen for a new carnation for trial than invest a large sum in a variety, however good it is represented to be, only to find I cannot grow it. The trade do not want large quantities of a new thing. Not because it is regarded with suspicion, but they wish to give it a fair trial on their own grounds before investing largely in it. I think no plant is more particular as to its surroundings than the carnation pink, and no one variety can be universally grown. Because I can grow Chester Pride and Lamborn it is no reason I should recommend them to every florist in the land. If my neighbor can grow Lizzie McGowan and Mrs. Fisher, well and good. *I* cannot, therefore, they are not the kinds for me. The matter of new introductions is the same. If I should invest largely simply because I saw a variety doing finely in another place I *might* possibly make a good thing of it, but it is hardly likely that I would. There is one thing certain, I know very well there would be nothing for me in that variety if, after having purchased the rooted cuttings in the spring at—say $10 per 100, I find the same kinds selling in the fall out of the field at $5, $8 and $10 per 100. This is, indeed, a matter sadly in need of correction by the trade and one result of getting up a large stock of a seedling before putting it on the market.

All honor to Mr. Edwin Lonsdale's disinterested efforts in behalf of the carnation! His efforts should be appreciated by all. No doubt the varieties he will shortly introduce will be much finer than any that have gone before; but no matter how good they may prove to be in his soil and situation, I must try them on my own ground before I can determine whether or no they will do for me; and I should prefer to try them in a small way first.

There is one other very important matter to the man who grows seedlings for profit. He must not hold that seedling too long before introduction. For, in this age of progress, that other fellow will in the interval loom up with one far better, and his beloved child will be "Born to blush unseen, and waste its fragrance on the desert air." W. R. SHELMIRE.

Avondale, Pa., Feb. 3, 1892.

The Carnation as It is Grown in Europe.

BY E. G. HILL.

[*Prepared for the Buffalo convention of the American Carnation Society, but received after meeting adjourned.*]

In every country of Europe, and also in the British Isles, the carnation is an eminently popular flower. Go where you will, cloves, pinks, carnations, are seen in fragrant profusion on every hand. Cottagers in England grow them in excellent style both in pots and in the garden plot. The peasants of France and the housewives of Germany show beautiful plants of both the carnation and the hardy pink. All over Europe, as in America, the carnation is dividing honors with the rose, and while the rose still

leads, the carnation is not many paces behind in popular favor.

The immense quantities of carnations grown in the nurseries of Europe attest its commercial value and give a faint idea of the great number of plants annually distributed, to say nothing of the immense quantity of seed harvested yearly. The great seed establishments of Erfurt, Quedlinburg and other points are fairly a-glow with carnations during the month of July; it is no uncommon sight to see from one to three acres comprising a carnation field: of course these are used for seeding purposes. The method of culture is very simple: the seedling plants are germinated in frames under glass, and when about two inches in height they are transplanted to the field in rows that are 24 inches apart, and spaced 12 inches in the row, where they are most carefully tended and where they flower the second year. A sight of such a carnation patch in bloom is something to be remembered. The prevailing colors are scarlet and crimson of varying shades. The finer strains are divided into classes called Bizarres, Flakes, Fancies and Selfs, and are grown on what are termed stages, this being simply a series of steps usually five in number rising like a stair. This staging is protected on the north by shutters or matting, and is invariably roofed over to keep out the rain. The plants on this staging when in bloom are carefully hand fertilized. The multiplication of the plants is universally accomplished by layering the shoots in the pots in which the plants are growing. The German seedsmen grow and flower their stage plants in wonderful manner. At one of the establishments in Erfurt they had thousands of plants in six-inch pots, every plant carefully tied up and carrying a wealth of bloom little dreamed of in this country. To an American their method of reproduction seems antiquated; as these plants only bloom once a year, it would seem that other methods of propagation might be adopted. The prices realized for the layers of the finer named varieties would astonish even our Pennsylvania growers. The variety Germania is justly esteemed at Erfurt, but is not considered a valuable cut flower variety in this country, I believe.

The Malmaison type is largely grown by the florists and gardeners in France and England. These somewhat approach the perpetual in character. I believe that flowers of this type produce the largest blooms to be found in the entire Dianthus family. Messrs. Veitch's foreman told of a grower who produced flowers of the Malmaison that were six inches across. These he has grown for a number of years, and her majesty the queen is annually presented with these regal beauties, which surpass in size even Mr. Thorpe's ideal flower. I believe there are already some six different shades of the Malmaison, and it might be wise to try cross breeding our perpetual varieties with members of the Malmaison family with a view to increasing the size of the perpetuals. I saw very few blooms, however, but what had burst their calyx.

Lyons, France, is the center from which has emanated the pioneer varieties of the class known as Perpetual flowering carnations, and we are all debtors to M. Alegatiere for the origination and introduction of the perpetual or tree carnation. In fact, most of the varieties cultivated in our country owe their origin to the race originating at Lyons. Alegatiere, Mlle. Carle, Miss Joliffe, Vulcan, Andalusia, Jean Sisley, LeFavori, L'Hermine are varieties of Lyons type well known here.

M. Carle is probably the largest commercial dealer in this particular class of any on the continent. His method of culture is identical with ours as to summer treatment. His plants were growing in the field and had been trimmed or cut back to induce a bushy growth. He was the first to lay stress upon the fact that the life of a carnation is limited; that is, that its usefulness is largely over after having been in existence for 8 or 10 years. Of course there are exceptions to the rule. Your essayist predicts that it will not be long until American varieties of the carnation become popular in Europe, for even now the later productions in America equal the finer of the less free flowering European varieties.

Carnations are not grown to any great extent in England for winter bloom; efforts in this direction always result in partial failure owing to the damp, murky weather which prevails the greater part of the season. But if the Englishman does not possess the pink and the clove in the dull winter months, he makes up for the loss by a profusion of bloom during the spring and summer. Border carnations, as they are termed in England, command a great amount of attention, and the demand for them is largely increasing, and no wonder, for they bloom abundantly the summer through. This section of the family has been much improved in size, and many beautiful new colors have been added. A strong spicy fragrance pervades them, and when their free flowering qualities are considered, we cannot wonder at their popularity with the British public. Varieties of this section imported from the best collections in Europe, failed to give any returns either in growth or bloom when treated similarly in this country.

The "Marguerite" section was beginning to create interest at the time of my visit two years ago; and it was even predicted that they would supersede all other types of the carnation. We have heard similar predictions in this country, but the type will have to be greatly improved before it can divide honors with our American varieties.

Would it not be well for us in this country to raise and breed a race of carnations that will be to American amateurs what the border carnations are to the British people—varieties that would bloom and flower the summer through. Of course our present varieties will bloom fairly well during the summer if properly treated; but we need a dwarfer, more robust race, and I predict it will not be long ere such a class will be known and grown in our own country. In fact, have we not thrown away many varieties that flowered too late in the season, which might have proved the nucleus of a summer flowering race? If hardiness could be added, then indeed would such a race prove valuable to our amateur friends.

It is a sight worth a journey across the water to see the carnations at one of the carnation societies' shows. The plants are grown in a certain sized pot, neatly tied to slight sticks with green twine, the flowers are shown on cards and receive no end of dressing and adjusting of the petals to a nicety with the aid of tweezers and gum. Undoubtedly our worthy president can give us the mode of procedure incident to the staging of plants at the English shows.

I append a list of the varieties of Malmaison type for the benefit of any one wishing to experiment in cross breeding them with the perpetuals. They are Malmaison, pink Malmaison, crimson Malmaison, Gloire de Nancy and Comtesse de Chambord. I thank you for your kindly courtesy and attention.

Echoes From Buffalo.

"Far better than I anticipated."—R. T. Lombard.

"A great success."—E. Swayne.

"Never was there such an array of carnations."—Everybody.

Everybody took rubbers, but, Great Scott! they did not need them.

0° Tuesday morning.

The professors did much to make the meeting a success.

The society should adopt as its own the classical ballad "The Duke of York" and all members learn the verses.

Everybody was sorry E. G. Hill came too late for the meeting, but his genial smile did one good when he did arrive.

A number of the members "took in" Niagara Falls on Wednesday.

The "venerable" from Wayland, the "Grand Duke" and "Eastern Manager" formed a trio for Boston.

Wednesday evening the Buffalo Florists' Club did much to make our stay a pleasant one.

For pointers on "steam heat" and "violets by lamp light" apply to the vice-president for the middle states.

Any who failed to see Palmer's greenhouses at Lancaster missed a treat. The Grace Wilders and Silver Sprays are a fine sight.

President Lonsdale's display of Grace Battles attracted much attention, and Dorner's grand display stands unrivalled in the annals of carnation exhibits.

The Philadelphia delegation to the Buffalo meeting consisted of Pres. Lonsdale and Messrs. Herr, E. Swayne, Styer, Shelmire and Pennock. Pres. Ladley, delegate from the Chester County Carnation Society, was obliged to forego the pleasure of the trip on account of sickness in his family. They reached Buffalo early Tuesday morning and stayed over until Wednesday morning.

Sec'y Pennock went with W. J. Palmer for what was left of the night after the "social" and returning early Wednesday a. m. All went over to the falls except Pres. Lonsdale and saw the sights thereabouts. The president returned home via Boston, Herr direct to Philadelphia and the remainder of the party via New York and Orange, N. J., where they visited John McGowan. He is full of business, and no chance to get off to Buffalo.; has bought several acres near Orange and will build extensive greenhouses the coming summer. John has several promising seedlings and not enough room now to spread himself. "New Jersey" as a large bright scarlet is fine and when it is exhibited will speak for itself. A new canna, bright yellow, and two new coleus are being grown for early distribution. A "How Do" to Dreers, Harry Michell, Battles and Baker in Philadelphia ended a memorable and profitable trip to several carnationists.

Another Carnation Pest.

EDWIN LONSDALE BEFORE AMERICAN CARNATION SOCIETY.

A few weeks ago Mr. Isaac Layer, florist, brought a few worms here which he said were eating his carnation buds. They worked at night; and all the buds submitted for examination were operated upon by the worms before the flower had expanded. In some cases the base of the calyx was eaten clear through; in others the aim of attack was where the petals had commenced to unfold. In all cases the objective point seemed to be the



CHRYSANTHEMUM ANNIE MANDA.

nectar, or saccharine matter, which is secreted at the base of the flower. At the same time, the petals seemed to have been devoured also. Not having seen or heard anything of these pests before, they were forwarded to Prof. Riley, Entomologist U. S. Department of Agriculture at Washington, D. C., who replied as follows.

"The worms which you send are Cut Worms of the species known as Agrotis saucia. Its vernacular name is the 'Variegated Cut Worm.' You will find some account of this insect on pp. 297-8 of the Annual Report of Entomologist for 1884. Judging from the time of year, I suppose they are infesting some green house into which they were probably brought with earth from sod land last fall. As a remedy I should advise spraying the plants with paris green and water in the proportion of ¼ pound of the poison to 50 gallons of water. I would further advise the thorough wetting of the soil from which the worms came with a dilute kerosene soap emulsion made according to the formula given upon page 3 of the enclosed circular. I have heard of a number of similar cases recently where this identical species of cut worm was introduced into greenhouses in the above manner."

After communicating the above information to Mr. Layer, he writes under date Feb. 10 as follows: "I have sprayed the plants with the paris green once as recommended, also the kerosene emulsion. Last evening I found only three worms where I had been finding 15 to 20 heretofore. I will continue using both until I am entirely rid of them. From 400 to 500 buds have been eaten in less than a month in one house. Had I not persevered and caught them, they would have eaten every bud in the house. I will advise you later if I get entirely rid of them."

Carnation Crops.

In this number of your valuable journal we wish to make a final report of carnations cut from the two houses we reported up to Jan. 15 in No. 192. From Nov. 1 to Jan. 15, house No. one, from 1,330 plants of Hinze's White, produced 12,430 flowers; to Feb. 1, 3,788, a total for 3 months of 16,218 flowers. The side benches in same house, planted with 1,270 Grace Wilders, produced in the same time 10,548 flowers.

House No. 2 is planted in center with La France roses; the side benches contain 1,120 Grace Wilders, which produced for November 4,763, December 5,007, January 3,135; total for 3 months 12,905.

The above shows we cut from 1,330 Hinze's White 16,218 flowers; from 2,390 Wilders 23,253; from the 3,720 plants in 3 months a total of 39,471 flowers.

The greatest proportion of flowers was cut between Dec. 15 and Feb. 1. The plants are in full vigor to-day and have not lost half a dozen since they were planted. We attribute this and the large cut to the small number of cuttings we take from each plant—from 3 to 5 is the limit and then only from the strong plants. We never take cuttings until after the first of the year. Our experience is that you cannot have both cuttings and flowers in abundance in December and January, when the flowers are most needed. We hope to hear from a few growers who have done better.

Bristol, Pa. DE WITT BROS.

American Carnation Society.

REPORT OF COMMITTEE ON EXHIBITION.

BUFFALO, N. Y., Feb. 16, 1892.

Your committee to whom was referred the cut flower exhibit, having attended to the duty assigned them, respectfully beg leave to submit the following report. We have found the exhibit a remarkably fine one in the old, the new and the novelty classes. A large number of really fine flowers and an immense diversity of color being shown.

Your committee desire to make special mention of the following exhibits: The large and fine display of new seedlings shown by Fred Dorner, La Fayette, Ind. Also, the very complete display of the older sorts shown by the Essex Heights Floral Company, Belleville, N. J. For the well staged specimens of older sorts by J. M. Gasser, Cleveland, O. Also, for the exhibit of plants by Lemuel Fawcett, Salem, O.

STANDARD SORTS.—J. A. Breitmeyer & Son, Detroit, Mich., show a fine collection in this class. The Essex Heights Floral Company, Belleville, N. J., a large display including a number of last season's novelties. J. M. Gasser, Cleveland, O., a tastefully arranged collection among which Buttercup, Tidal Wave and Daybreak were exceptionally good. Geo. Smith, Manchester, Vt., six varieties in good shape. F. B. Lewis, Lockport, N. Y., Nellie Lewis, J. J. Harrison, and Garfield in fine condition. H. Dale, Brampton, Ont., a good display. Chas. T. Starr, Avondale, Pa., a large display, among which were some extra well grown Golden Gate. Webb Bros., Corfu, N. Y., a fine display of four varieties, Grace Wilder being especially fine. Smith & Son, Adrian, Mich., a fine vase of Garfield. Walter Muston, Toronto, Ont., vase of mixed sorts. W. J. Palmer & Son, Buffalo, N. Y., a large and fine display. Vick and Hill, Rochester, N. Y., a good exhibit of Nellie Lewis, a flat bouquet of same on black card, making a very attractive exhibit.

VARIETIES BEING DISSEMINATED THIS SEASON.—Wood Bros., Fishkill, N. Y., a vase of Puritan, a remarkably good white. R. T. Lombard, Wayland, Mass., a fine vase of Golden Triumph. Lemuel Fawcett, Salem, O., vases of Mrs. Lemuel Fawcett in excellent condition; also, two plants of the same. Fred Dorner, Lafay-

ette, Ind., vase each of White Dove, Sea Gull and Mrs. Hitt. E. G. Hill & Co., Richmond, Ind., vase each of Mrs. Hitt, Fred Dorner, Hoosier and Sentinel, all in good shape.

NOVELTIES NOT BEING DISSEMINATED.—J. A. Breitmeyer & Son, Detroit, Mich., an unnamed white seedling and a vase of Rosalind, a dark pink. Lemuel Fawcett, Salem, O., a single flower shown of White Beauty. Essex Heights Floral Company, Belleville, N. J., vase of Florence J. Van Reyper, a new white; also, Tendresse, a dark pink. Chas. T. Starr, Avondale, Pa., vase of white seedling unnamed. E. G. Hill & Co., Richmond, Ind., fine vase of Edna Craig, a beautiful light pink. Lothrop Wight, Framingham, Mass., vase of Princess, a good dark pink. Edwin Lonsdale, Chestnut Hill, Philadelphia, Pa., a fine vase of Grace Battles, a very delicate solid-colored pink. Fred Dorner, Lafayette, Ind., a number of white, in your committee's estimation the following being the best: Nos. 5, 44, and 87, all of '91; in light pinks, Nos. 50 and 112 of '91 are especially fine; Richmond and Spartan are fine specimens in the darker pink; in fancies, Nos. 34, 55, 20 and 37 all of '91, and 122 of '90 are good flowers of this class; No. 72 of '91 is a very good scarlet, Nos. 12 and 66 single specimens of the crimson class. Webb Bros., Corfu, N. Y., a vase of seedlings. Wm. Scott, Buffalo, N. Y., vase of seedlings, among which was an excellent pink one. Henry A. Dreer, Philadelphia, Pa., a vase of the new daisy Snow Crest, in fine condition. J. M. Gasser, Cleveland, O., several fine vases of roses.

Your committee would recommend that a scale of points or printed regulations be gotten up before another show, as we find such a similarity in the carnation family that it is a hard matter to decide their merits.

Committee { JOHN F. COWELL. DAN'L B. LONG. ALBERT M. HERR.

Some Queries.

ED. AM. FLORIST:—Will you please submit the following to the practical men in the business. Latitude Boston.

1. In building greenhouses, ¾ span, for blooming carnations will it pay to put in upright sash on south side—in front of bench—say 16 inches in depth?
2. Are sash bars grooved for drip, to be used?
3. Will eight 2-inch wrought iron pipes (ample boiler capacity) be sufficient to heat new carnation house 18x100; ridge board 12 feet from ground; house double boarded, papered and partly sheltered by buildings on north?
4. Particular information desired as to the value of syringing foliage of carnations. How often and how liberally from December to March? Benches used.
5. Is it good practice to smoke once a week, fly or no fly, as a preventive?
6. Is spreading stems on the walk or small bunches placed between the plants preferable to smoking?
7. What is the most economical method of applying fir tree oil and other insecticides to foliage? BEGINNER.

Lizzie McGowan as a Keeper.

ED. AM. FLORIST:—We send you in this mail a spray of six Lizzie McGowan carnations. The upper three flowers have been fully open for six weeks and the lower three for two to four weeks on the plant. We took out the terminal bud. This carnation is a great keeper with us.

Clyde, O. E. HALL & SON.

[The flowers arrived in fair condition. —ED.]

American Carnation Society.

REGISTRATION.

Mr. George Creighton, New Hamburg, N. Y., registers Crimson Coronet, from Crimson King crossed by a red seedling. Early and continuous bloomer, robust and healthy, flower of good form and substance, of fair size lasting a long time in perfection.

Peachblow Coronet, from Crimson Coronet, and partakes of the qualities of its parent. The name describes the color perfectly.

White Coronet is from Crimson Coronet crossed by a white seedling. Comes into bloom about midwinter, flowers large, not very full, plant bushy and makes a splendid pot plant for sale or exhibition purposes.

Netherwood, from Portia and Crimson Coronet. Flowers are a very bright scarlet on stiff stems and the habit of the plant is the same as Portia, but later in coming into flower.

King Dianthus. Flowers very large white. Plant tall and an early and continuous bloomer.

Rob Roy. Flowers red, of flat shape, full and early bloomer.

Village Maid. Flowers of blush marked carmine. Plant vigorous, early and free. A model flower on stiff stems.

Notes on Flowering Plants.

Aphelandras.—These bright colored species are but seldom seen among the trade, though quite pretty enough to deserve a place, even though their flowers do not last very long. The aphelandras are easy to grow and do not take up very much room, the most essential in their cultivation being moderate heat and plenty of water while in active growth. A light, rich soil completes the requirements, and in order to secure pretty little plants it is best to raise them from seed, though if this is not readily obtainable, cuttings will answer very well, and are not specially difficult to root.

One of the oldest members of the genus is A. aurantiaca, an upright growing plant with dark green leaves of ovate form, and in common with its fellows bears terminal spikes of flowers, which in this instance are bright orange in color. It is quite an attractive plant while in flower, but is perhaps exceeded in beauty by A. Roezlii, this being an improved form of the above.

A. Roezlii is of similar habit to the preceding, but has a shading of silvery gray over the leaves, and the flowers are more inclined to scarlet.

Another remarkably handsome species is A. nitens, this having dark olive-green leaves which are very glossy and smooth and bright red flowers. A. nitens is one of the finest of the genus and enjoys a temperature of 65° with a moist atmosphere.

A. fascinator is also good, and is of more recent introduction than those already noted, and has sharply pointed ovate leaves of dark green color, broadly veined with silvery white. The flowers of this species are dark scarlet or vermilion and consequently very showy.

Several other species have been introduced at various times, but those briefly referred to above are probably the best for general purposes.

Seeds are generally produced quite freely and do not take long to germinate, but if there are any mice about the place the seeds will require close watching for these vermin are very fond of them.

Mussænda frondosa is a somewhat old fashioned stove plant that has become comparatively rare of late years, though when nicely grown it makes a very pretty object, and will flower at almost any season of the year. This plant has dark green leaves of moderate size and slightly pubescent, the flowers being bright yellow and produced in a terminal cluster, the latter being more or less surrounded by pure white bracts, these producing a very odd effect.

As noted before, Mussænda frondosa requires a stove temperature in order to make a rapid growth, though I think it is quite possible that this plant could be grown outdoors during the summer just as poinsettias are treated, and by pinching the growth occasionally it would make nice bushy plants. Cuttings root readily when kept moderately close for a time, and the young plants should not be allowed to become very much pot-bound or they may be stunted thereby.

Scutellaria Mociniana is also a pretty little thing for winter blooming, and would help to brighten a conservatory during the dull days of winter, though the individual flowers are not large and the spikes are of little or no value for cutting from. This is not essentially a stove plant, but can be nicely grown in a temperature of 50° to 55°, young plants being the most satisfactory for all purposes, as old specimens are apt to become scraggy. The flowers of S. Mociniana are produced in racemes and are orange scarlet in color and tubular in shape. Cuttings root almost as readily as those of verbenas, so there is no difficulty in securing a stock. W. H. TAPLIN.

Dipladenias.

As warm greenhouse or stove climbers the dipladenias are among the most beautiful flowers there are. The flowers are mostly pink or rose and purple. D. Boliviensis is white with yellow throat; this is the only white one.

They require a moist warm temperature when in growth and must be very carefully watered, for no plant is more impatient of a sour or waterlogged soil. A rough coarse soil suits them best; peat and sand does very well if the peat is fibrous and in lumps.

They flower towards fall after making a good growth, the flowers coming on the young wood. Some of the varieties have flowers 4 and 5 inches in diameter, are very showy and lasting. The several sorts grown here by Mr. McWilliam flowered finely last season and were much admired by all who saw them, some of the flowers being exhibited in Boston attracted the eye at once on entering the part of Horticultural Hall where the cut flower table was. Very little water is needed when the plants are at rest and then they must be kept in a warm house. In potting keep the plant well elevated above the rim of the pot, which should be half or two thirds filled with potsherds to provide thorough drainage. The young shoots must be carefully watched as they grow and kept to the wires provided for training them up under the glass. If insects appear a soft sponge is as good as anything to wipe them off.

When the plants have done flowering cut back the shoots to several eyes and keep dry till signs of growth appear; water at the root sparingly at first and



MARANTA VIRGINALIS MAJOR.

syringe the top to encourage the young buds and in due time, if all has been attended to rightly, the plants will again repay you for your trouble with a wealth of bloom. W. S.

Whitinsville, Mass., Jan. 14.

Marantas.

There are in this genus of very ornamental leaved stove plants, very many varieties, most if not all of which are extremely beautiful and effective.

The comparative ease with which they may be grown, provided certain essentials are observed, and their usefulness for decorative purposes makes them exceptionally valuable to the florist and indispensable to the collections of amateur growers.

The present may be considered a favorable time for overhauling and dividing marantas. In order to increase the stock shake out whatever old plants may be on hand and divide into as many pieces as there may be separate crowns, potting each piece separately, afterwards plunging them into a little bottom heat to encourage fresh root action.

Marantas delight in a rich open compost; a mixture composed of good fibry loam, peat and leaf soil in equal proportions with a liberal sprinkling of sand and broken charcoal, will be the most suitable; this with clean pots well drained will be a potent factor in obtaining success.

To have the plants in fine healthy condition a temperature of say 65° to 70°, with plenty of atmospheric moisture should be maintained, careful attention being paid to watering; syringing frequently will aid materially in preserving a clean healthy foliage.

Liking a nice shady position, they may be grown under vines or creepers; by so doing much room might be profitably employed that would probably otherwise be practically useless and unprofitable.

Among the many varieties most useful for florists' decorative work might be mentioned:

M. Massangeana, a fine compact grower, the leaves beautifully covered with rich markings.

M. Kerchoviana, a useful little fellow, leaves grayish green, prettily blotched with purple spots.

M. pulchella, leaves bright green with series of deep green markings.

M. micans, leaves dark shining green with white feathery stripe down the center.

M. bicolor, an old but pretty spreading species, ground color of leaves pale glaucous green with irregular shaped blotches of polished dark olive midway between the midrib and margin.

The above will be found especially adapted to the filling of jardinieres, etc., lasting well and massed with other plants produce a pretty effect.

M. virginalis major, one of the most striking of the genus, has large light green leaves, broadly ovate, midrib white, having a white band on each side, and when well grown makes a very showy and effective specimen.

M. Warscewiczii, a grand variety with deep velvety green foliage, pleasantly relieved by a feathery stripe of yellowish green on either side of the midrib.

M. Veitchii, leaves rich glossy green marked along each side the midrib with crescent shaped blotches of yellow, softened by shades of green and white, under surface light purple.

M. rosea-picta, glossy green foliage, prettily striated with delicate rose colored markings.

These with other fine varieties such as Vanden-Heckei, princeps, albo-lineata, Makoyana, Lindeni, fasciata, Leitzei, media-picta, eximia, Porteana, Chimboracensis, zebrina, Legrelliana, etc., when well grown would attract and gladden the heart of the admiring amateur and bring the ducats to the capacious pocket of the florist. JOHN R. JOHNSON.

Begonia Coralina.

The pink form of Begonia coralina (Syn. rubra) referred to in the FLORIST of Feb. 11, was first obtained by Robert Veitch, the well known florist of New Haven, Conn., four or five years ago, which he named B. coralina rosea. Mr. Veitch says that the name rubra is a misnomer. It is also catalogued in some of the European lists as coralina. JOHN DALLAS.

Long Island Notes.

BY WM. FALCONER.

KALANCHOE CARNEA doesn't improve any with longer acquaintance. But as a seedsman's novelty it is a gem, it ripens such a lot of seed.

MARGUERITE FLOWERS are very apt to wilt soon after being cut, but I find by dipping them overhead in water as soon as cut as I do maidenhair ferns and then shaking them and setting them in water as usual they are not as apt to wilt as they would be were they not dipped.

FREESIAS.—Although the white flowered forms are the most in demand the yellow bloomed ones seem to have the stoutest stems.

RUDGEA MACROPHYLLA comes from Brazil and is a large thick leaved evergreen shrub that blooms in our greenhouses in winter. The flowers are creamy white of thick, spongy, rather than leathery consistency, and arranged in large globose bunches set close onto the end of the shoots and between the two terminal big leaves. More odd than beautiful, at the same time quite showy when in bloom. But it is a plant that submits patiently to a good deal of ill treatment, and never fails to bloom when the time comes around.

PRIMULA OBCONICA resents any interference on my part by stinging me, still it is so pretty and full of flowers all winter long that I can not give it up. When in full bloom it is a gem of a pot plant for greenhouse, shop, parlor or window decoration, and its sting although irritating is not at all virulent. For cut flowers its blossoms are exquisite and last well, and I have never had any complaint about the hairs on the flower stems stinging any one. It seeds freely, comes readily from seed, and one year old seedlings make nice blooming plants. It likes a little shade. Although it has lived out of doors with me for two or three winters in a desultory way, it cannot be regarded as a hardy plant. Different plants differ a good deal in the size and fullness of their flowers, so when one saves his own seed he should aim carefully at selection.

SMILAX VS. ASPARAGUS.—Ex-President Norton has one of the most aristocratic trades in Boston, and he assures me that he has given up smilax altogether—his customers won't have it—and have taken to Asparagus plumosus.

ASPARAGUS PLUMOSUS NANUS.—I have had "nanus" from two parties, but in due time away it went into a full-sail plumosus. When at Washington in January I heard the Clark Brothers had got the genuine nanus, so went out to their place to see it. I found it there, both it and plumosus, in quantity and in vigorous form. It is not a bush plant any more than is plain plumosus, except in a young state. When planted out and liberally treated it runs 8 feet long, about half the length of the other; and in all its parts—vines, fronds and leaves, it is smaller than plumosus. Another peculiarity about it is a tendency to run or sucker at the root. The nanus is simply a refined form of the plumosus.

THE VARIEGATED-LEAVED Elæagnus pungens.—A few years ago I saw some pretty bushes of these at Westchester, Pa., and I was informed that they seemed to be hardy enough. A year or so later I saw it again at Washington, and Mr. Smith very kindly sent me a plant which I planted out of doors, left it out, and it is out still, and apparently happy enough. This plant pleased me so much that I sent to Europe and got every variegated elæagnus I found offered in England, France and Berlin. But, oh, for the nomenclature! Eleven names for four varieties! But to my story: When in Washington last month I found Mr. Smith's plants very snugly huddled under sashes in a cold frame, while ours were locked in frost and mulched with snow on Long Island. No, I haven't taken them in; when I got home I laid another pine branch or two over them and will let them stay there. They survived last winter unhurt, then why not this one?

Influence of Plants on the Air of Living Rooms.

ED. AM. FLORIST.—One of our high-school pupils wishes to know whether plants in a bedroom vitiate the atmosphere. I am not able to reply to this question quite so positively as I would like. Will you please give in the FLORIST the conclusions recently arrived at upon this point, with any explanations of the relations of living plants to the air of rooms, both night and day, which may maket he subject more clear to the school. W. F. BASSETT.

Every green plant, whether flowering plant or fern, takes carbonic acid from the air, and water from the soil, and these substances are separated into their chemical elements (carbon, oxygen and hydrogen), and the elements recombine to form starch or some other carbohydrate in the green parts of the plant. This formation of organic matter out of inorganic is sometimes spoken of as the fixation of carbon, since this element, which previously existed in the form of of an invisible gas, is thereby fixed in the solid or liquid structure of the plant; it is also sometimes spoken of as assimilation. Taking starch as representing the first evident product of assimilation, which is generally the case, although it may not be the first product actually formed—it is observed that decomposition of an amount of carbonic acid and water sufficient to furnish carbon and hydrogen for a given amount of starch liberates a certain quantity of oxygen not used in forming the latter, and the oxygen thus set free is equal in quantity to that previously combined with the carbon in the carbonic acid removed from the air. It may be said, then, that green plants remove from the air carbonic acid,—which, beyond a certain percentage, renders air unfit for the respiration of animals,—fixes its carbon in their own substance, and returns the entire amount of oxygen contained in this carbonic acid to the air as free oxygen, thus increasing its value for respiration. But this fixation of carbon and the consequent liberation of oxygen occur only in the green parts of plants, and under the effect of strong light like daylight or the electric light; so that the plants of a living room exercise this purifying influence on the air only during the daytime, and so far as this is concerned, are inert at night.

On the other hand, the organic matter which results from this process undergoes within the plant many changes, some of which fit it for transportation from one part of the plant to another. While others attend its conversion from mere food material into the substance of the plant itself. Some few of these changes result in the liberation of a further amount of free oxygen, and to this extent may be said to purify the air. But the greater number of them are accompanied by a sort of combustion, some of the carbon previously fixed becoming combined during the change with oxygen taken from the air, and thus again forming carbonic acid that is returned to the atmosphere, which is consequently vitiated to a corresponding extent. While assimilation is confined to the green parts and to daylight (or its equivalent), these processes of food elaboration attended by the absorption of oxygen and the formation of carbonic acid occur in all parts and at all times, but more especially in the parts of the plants which are not colored green, and during the hours of darkness, when growth is most rapid. This giving off of carbonic acid during the nutrition and growth of green plants is, in point of fact comparable with the similar release of carbonic acid in the nutrition and growth of mushrooms, yeasts, and other plants which are not green, and of animals, so that it really corresponds to the respiration or breathing of animals by which they vitiate the air. But although the respiration of green plants occurs at all times, the carbonic acid given off as a result in the daytime is far less than that taken up by them for the fixation of its carbon during the same time.

So far as the effect of a collection of plants on the air of a room is concerned, the following statement may, therefore, be made: During daylight they purify the air by removing from it carbonic acid and giving off free oxygen far in excess of the opposite result of their respiration. While at night their influence is exactly that of animals, since their respiration then goes on with even increased force, while the fixation of carbon has ceased. Taking the average of night and day together, however, their effect is to purify the air, because they remove more carbonic acid in the daytime if in good condition and properly lighted than they give off at night. It must be evident also that plants with variegated leaves, or those largely in flower and fruit, will have a smaller balance to their credit than those with abundant green foliage and few flowers, because the variegated plants have a proportionately smaller assimilating power, while repiration is much greater from developing flowers and fruit than from ordinary foliage. So far as even these plants are concerned, however, their average effect is nearly always to purify the air by removing its carbonic acid and adding to its oxygen. With sickly or poorly lighted plants, the balance may be more nearly destroyed, owing to their diminished assimilation; and it is never desirable to have in a sleeping room any large number of plants with a profusion of highly scented flowers, because of their greatly increased respiration and the disagreeable effects their perfume causes on some persons.

Filthy flower pots, or those containing a disproportionately large amount of soil, —especially if richly manured and undergoing decomposition,—constantly give off carbonic acid, and may also, possibly, breed disease germs under some circumstances, so that their condition should be frequently looked to. But the growth of green moss on the pots or the contained soil, which is usually looked on with disfavor, is beneficial unless it implies too great neglect of cleanliness, since the moss plants assimilate.

One other point deserves mention in this connection. All plants bearing leaves are constantly pumping water from the soil and giving it off into the air in the form of invisible vapor. While the amount of water thus evaporated from foliage is largely influenced by the structure of the leaves, which differs much in different kinds of plants, in a general way it may

be taken as proportional to the leaf surface expanded. Our systems of warming dwellings in winter are nearly all open to the objection that the heated air within doors is far drier than the cold air without, colds being a very frequent consequence of passing from one to the other. During the winter, therefore, properly watered plants in our dwelling rooms contribute to no small extent, to keeing their atmosphere from becoming too dry.

W. T.

Naming Plants.

Pellionia pulchra and P. Daveauana are two pretty little creeping plants from Cochin-China and now not infrequent in our greenhouses. They are close-growing, flat-spreading, ornamental evergreen-leaved plants that seem to enjoy moisture, warmth and a little shade. They are allowed to spread on the gravel on the benches, run over on the surface of the earth in pots containing large specimens of other plants, or on indoor rockwork and they make nice basket plants in a small way. They are easily raised from cuttings and a large stock of them can be gotten up in a season.

For a couple of years I have known the plants well, but till the other day couldn't find out their name. I tried botanist and horticulturist without avail. The latter wrote "a kind of peperomia" (as peperomia is a common genus of tropical American plants well known in our greenhouses, evidently this name was a guess from memory of the lost label that came with the pellionia from Europe), but any one with a fair idea of plants would repudiate this name, as the pellionias are nettles and not peppers, as the peperomias are. The botanist replied "nearly allied to pilea." This was right so far as family went. And the scientist was excusable for a closer identification, for the plants are comparatively new and not yet generally distributed in herbariums.

My first introduction to the true name was in the greenhouses of the Agricultural Department at Washington; there I found a plant labelled Pellionia arguta, which I noted and afterwards found to be correct.

Here is food for the Committee on Nomenclature. Suppose we get hold of a real nice little plant of this sort, propagate it in quantity and wish to catalogue it or sell it, but cannot find the name of it, what are we going to do about it? Let me give you a practical illustration: A certain florist raised a large stock of it and got up a nice illustration for his catalogue, but although he tried hard to find out the name of it he couldn't (among others he sent it to myself, but I couldn't help him), so he catalogued it under the name of Mexican peperomia. The name peperomia was given to him as to me and as these plants have headquarters in Mexico and other warm parts of the Americas he thought that name would be about right.

Now I have always contended and I insist upon it still that one of the best things the S. A. F. can do is to provide means of naming unknown (to us) plants to its members. Gardeners, florists or horticulturists—specialists in their several lines—could furnish the names of cultivated varieties of plants, but no gardener or florist is competent to handle genera or species; for these we want the aid of the systematic botanist, and he should be one who has ready access to a large botanical library and herbarium.

Most every state has a state botanist; and as citizens of the state I believe we are at liberty to call upon him for assistance. But when we consider that the material at the hands of these botanists is more the native flora and economic plants and that our garden plants come from everywhere on the face of the earth, one can understand how powerless in many cases our state botanists must be in identifying for us the newer discoveries from tropical regions. But great educational centers, as Harvard College, Columbia College, Shaw's Garden and the Department of Agriculture at Washington, should be perfectly competent to identify any species of plants submitted to them.

The question that now occurs is, could arrangements be made with some one of these institutions to name such plants—species only—as the members of the S. A. F. might submit to it?

One of the ambitions of the S. A. F. is to get floriculture recognized as a division of the Department of Agriculture. This would be to our advantage in many ways. In the matter of nomenclature alone just consider the benefits we would derive, as explained in the following letter anent this subject from Prof. George Vasey, the botanist of the department, and which I publish in the FLORIST with his permission. WM. FALCONER.

U. S. DEPARTMENT OF AGRICULTURE,
BOTANICAL DIVISION,
WASHINGTON, D. C.

MR. WM. FALCONER, Glen Cove, N. Y.:

Dear Sir:—Your letter of the 5th inst. has been duly received.

In reply to your inquiry I may say that I am quite sure in case you succeed in getting floriculture added to the work of the department you will have the assistance of this division in determining any questions as to the names of plants. There has been too much carelessness and guess work as to names used by horticulturists and floriculturists and we shall be glad to give what help we can in rendering unnecessary such mistakes in the future. Of course it will be understood that we are to be furnished with material in the proper condition for investigation. We frequently do this work now for individuals and shall be even more willing to do it for your floricultural association.

Respectfully yours,
GEO. VASEY, Botanist.

Clubs Again.

Does the list of subjects selected for the next convention of the S. A. F. (AM. FLORIST 21 January) strike anybody as being an advance on that of former years? To me (I am speaking only for myself) I must say that beyond one or two subjects perhaps it seems to be about the same old thing we have had for years back and almost any one of the subjects might be heard at any good club meeting and would in all probability be handled just as effectively.

Many of the members have to travel long distances to reach the convention wherever it is held and though there is other business to be done besides listening to essays I do think that a list might be got up that would be productive of more benefit and provoke more discussion among the members. Things were bad enough at Toronto, essays were simply read to probably not half the members present in the city and the discussions afterwards did not amount to a row of pins. I heard many members say "O! well, we shall see it all in the report." Now, if things were like this in Toronto how will it be at Washington where the counter attractions are so much greater? It does really seem to me as if the S. A. F. had got on to a track that led to nowhere. Of course the mere fact of so many of the same profession from all over the country meeting together and exchanging views, etc., is of itself a good thing and tends to broaden men's minds and there is some business to be done in connection with the trade exhibit, but still there seems to be a lack of result from the amount of energy and money expended.

It seems to me that the S. A. F. should act as a sort of mother to all the Horticultural Clubs (yes, perhaps I have a club on the brain), there are many subjects that clubs are forever hammering away at and never settle, could not the S. A. F. do it for them? There are also many subjects that clubs want advice on. Could not the S. A. F. give it? Again, do not clubs want a sort of grand lodge over them to appeal to and to settle disputes and other matters as they crop up. I do not at all know what the feeling is on this subject or whether there is any, but I am pretty sure that if the matter was brought into "practical politics" most clubs would favor some such a project. Then the clubs could have something to say about what the essays and discussions should be about, there would be a rivalry created between them and I think the S. A. F. would get on to a track that led to somewhere and that somewhere would not be a hole in the ground, but the goal that all true horticulturists look to though they may never attain it.

As things are it appears to be a case of "great cry and little wool" as the devil said when he shaved the pig. We have got the gas which was a great improvement on tallow candles, now let us have the electric light. The S. A. F. has done great things in the past, but it must change its gait if it wants to keep up with the times, at least that is my humble opinion. These ideas are no doubt very crude, but everything must have a beginning. A. H. EWING.

Toronto, Ont.

The Verbena Mildew.

In bulletin No. 37 of the Cornell University Agric. Exp. Station Prof. L. H. Bailey says: "The verbena mildew (Oidium erysiphioides), which is often very destructive to house-grown plants, has been held in check in our houses by the use of sulphide of potassium (¼ oz. to a gallon of water). A lot of thrifty and stocky young plants which were badly attacked was divided into two lots for treatment, the lots being placed in separate houses. The treated plants received a spray of the sulphide about twice a week and, although a little of the mildew could always be found, the plants were not injured. The other lot was ruined and the plants died. It is probable that copper compounds, as the ammoniacal carbonate of copper, will be found still more effective, but our simple treatment was so successful that we found no occasion to try any other. This mildew appears upon the leaves and young shoots in white mold-like patches."

Stigmaphyllum Ciliatum.

Noticing in the FLORIST a note by Mr. Falconer on this beautiful vine, I would like to indorse what he says about it, as it is surely deserving of all the praise given it. I have had it planted in a nook of the greenhouse, and the flowers have been greatly admired by visitors. The flowers, when cut, have a resemblance to orchids, and are quite useful for cut flower work. Have not tried it outside here yet. Have found it rather hard to propagate though, only succeeding with ripened wood. Would like to ask Mr. Falconer how it is best propagated.

Minneapolis. GUST MALMQUIST.

Boston.

The cut flower trade has been on a steady jump during the past week. All the florists have been busy and the wholesalers report trade as first class. Roses and carnations have sold well, roses particularly. Violets are rather plenty with a prospect of a drop in price soon. The florists' windows begin to have a spring like appearance, the brilliancy and abundance of the display giving a strong suggestion of the Easter season, although Easter is still a long distance off. Azaleas, Harrisii lilies, cinerarias, ericas and tulips for plants, with roses, carnations, daffodils, nasturtiums, coreopsis, forget-me-nots and violets furnish an abundance of bright color.

Edwin Lonsdale honored the "Hub" with a visit on his way home from the meeting of the Carnation Society at Buffalo. He was kept busy during his short stay by the boys, who were anxious to show him as much as possible of the prosperous establishments in the suburbs.

Lawrence Cotter has a grand lot of lilies, both candidum and longiflorum, which will be just right for Easter. His house of La France and Albany is at present one of the sights of the town. Such a crop of buds is seldom seen.

At Waban Rose Conservatories there is a fine crop of Magnas just coming in. Later there will be several houses of Jacqs, which, if they fulfill their present promise, will be of splendid quality.

W. H. Elliott is watching his asparagus grow. It is making good headway towards the top of that 25-foot house. In the meantime he is cutting a good crop of Gontiers and Brides. His Wabans have been good, but are now off crop. There will be some fine Jacqs here later on.

Sewall Fisher is credited with having produced more meritorious carnations up to the present time than any other man in this country. He has several good white ones which have not been sent out yet and is constantly making new crosses.

R. T. Lombard attended the Carnation Society meeting at Buffalo and says he would not have missed it for anything. He still vigorously asserts the superiority of the Mrs. Fisher over all other white carnations and is prepared to substantiate his claim.

Orchids are coming in quite abundantly now and seem to sell better than ever. Norton Bros. had a dinner decoration this week at which no flowers except orchids were used. The center piece was very handsome. The laurel draping in Horticultural Hall on the occasion of the Bachelors' Ball was one of the finest jobs of festooning ever done in this city. It was done by Galvin Bros.

The G. and F. Bowling Club held its second meeting on Feb. 20. The meeting was followed by a practice game at the alleys of the Boston Athletic Club.

The dinner committee will recommend that a banquet take place on March 31, the price of tickets to be made very moderate, that a large gathering may be assured.

Prof. Sereno Watson, botanist of Harvard College, is seriously ill. He is failing gradually and his recovery is considered doubtful.

Geo. W. Wilson of Malden, well known as one of the oldest rose growers for the Boston market, died at his home on Friday, Feb. 19, aged 78. In the old Bon Silene days Mr. Wilson was a large producer of that popular bud, which he shipped in quantities to New York and Philadelphia. He also grew a great many Jacqs and of late years has made a favorite of the Gontier. He retained his interest in his greenhouse work to the last, even having the material brought to his room so he could make cuttings, after he was unable to go out. He had amassed a considerable fortune through good business management and shrewd real estate investments.

At the meeting of the Mass. Horticultural Society on Feb. 13 Prof. Jas. Humphrey of the Amherst Agricultural Experiment Station gave a practical talk on fungous diseases. The first part of the lecture was an interesting explanation of the algæ and fungi and their relationship to and difference from ordinary flowering plants. The speaker expressed much regret regarding the general haziness of ideas about fungi, which he asserted was due to neglect of proper education in the schools.

Disease in plants he described as anything which prevents the roots, leaves, wood or bark from performing their natural functions and thus interferes with the normal distribution of food material and when this condition results from parasitical fungus sending their fibrous roots into the cells and living tissues of plants, it becomes what is known as a fungous disease.

As to remedies Prof. Humphrey said that they are generally impracticable, for we can hardly hope to kill a parasite without at the same time killing its host. Chance experiments are but wild leaps in the dark. We should investigate the organism in all its details before either prevention or remedy. The real work is to study the fungi themselves and ascertain what conditions check and what favor their development and this settled it becomes easy then to know how to destroy or prevent.

We should not forget that sometimes a fungus accompanies a disease of which it is not the cause; and again, that neighboring plants may be important agencies in propagating fungous disease. Treatment to be effective must be preventive rather than remedial. As a rule a leaf or plant once attacked is lost. Of first importance in preventing are, first, a healthful condition, a strong vigorous plant will resist attacks; second, cleanliness; allow no rubbish about; dead fruit, leaves, etc., are favorable agencies for the development of fungous disease.

Speaking of the Bordeaux mixture and other preparations which are applied to the surface of plants in liquid form, he emphasized the essentially preventive nature of the treatment, for after a plant is once attacked no amount of spraying is of the least service. Powdery mildew, because growing on the surface of the leaf only, may be controlled by vapor of sulphur, but any internal growing fungus cannot be reached by any such treatment.

New York.

The past week has been a busy one all round. Valentine's Day, Purim ball, the Arion ball and a host of other gaieties, public and private, have furnished a brisk demand for flowers of every description. It is fortunate this is so, otherwise prices would quickly go to pieces. Already there are indications that it will take but a few days of sunny weather to work havoc, and Lent is but ten days off. The last week before Lent is always a gay one, however, and it is hoped that the steady run of trade which has favored us this season will at least continue unabated until Ash Wednesday.

Prices of roses have been maintained with a regularity unknown in recent years. Whether this is entirely the result of good demand and we can feel reasonably hopeful that the long looked-for balance between supply and demand has been reached, or whether it is due to short and insufficient crops is not quite apparent, but it has had a healthy influence on the trade nevertheless. The "Greeks," as the street peddlers here are called, have had but little show at the roses this season, and as the carnation has also been out of their reach as a cheap flower, they have been obliged to fall back upon the bulbous stuff or charge respectable prices for other goods.

The retailers are claiming, however, that they have made no money this year and have been able only to hold their own. It would seem, though, as if it were time for the growers to make a little money, which has not been generally the case in recent years.

The demand for the Madame Cusin rose continues unabated and the run on this variety has been almost phenomenal. American Beauties are off crop everywhere, so prices of good specimens are still at a high notch. The small stubby specimens that this variety always produces when out of crop are poor stock to handle, however, and do not bring much more than good carnations, so while good blooms bring from 50 cents to 75 cents each readily the rubbish goes hard at 4 to 5. There is a fair supply of good Brunners, Diesbach and Magnas, good specimens of which sell from $6 to $9 per dozen. Jacqs are getting more plenty and can be bought at from $2 to $3 per dozen.

As to carnations the demand still exceeds the supply and there is no indication yet of any overstock of blooms or decrease in prices. Violets on the other hand are too plenty and as the demand is local and transient the prices fluctuate badly from day to day, some lots of extra quality bringing as high as $1.50 per 100, while at times quantities are sold as low as $5 per 1,000. Lilacs are also badly overstocked at present, an unusual condition. The large mignonette in the market at present does not hold its advanced price above the commoner kind and there seems to be a reaction from the craze for the mammoth varieties at mammoth prices.

Bulbous stuff in general is over-abundant. Harrisii lilies are in such quantities that it is impossible to find a market for them, and the same is true of freesias. Lily of the valley is badly broken in price also. Tulips and daffodils hold their own a little better, but there are too many of them, and the aid of the "Greeks" is necessary in order to unload them. Smilax is suddenly scarce. Good smilax will undoubtedly sell at sight for some time.

Considerable excitement has been caused among the florists by the information from Boston that the big floral piece which the Columbia College boys had commissioned Florist Scallen to arrange and deliver to a favorite actress now playing at the Hub had been refused admission to the theatre. The enforcement of such a rule in the theatres here would mean a big loss to the florist trade.

Pitcher & Manda's great orchid exhibition will be given at Short Hills, N. J., February 29 to March 5 inclusive. The display of Cattleya Trianæ will be something marvelous.

Prof. C. V. Riley lectured before the Brooklyn Institute on Feb. 2 on the interrelation of flowers and insects. The first part of the lecture was devoted to a consideration of the different and curious ways in which the fertilization of plants is brought about and the prominent part

taken by moths, bees, wasps, etc., in the pollination of many species.

The second part of the lecture was devoted to insectivorous plants. By means of the stereopticon the movements, structure and digestive powers of these curious plants were illustrated, and it was shown that most of them do digest and absorb the food they capture, and that there is a remarkable parallellism between the functions of the glands of some of these plants and those of the animal stomach.

Prof. Riley concluded with a masterly argument in support of the theory of evolution in the vegetable kingdom and a corresponding development in the insect world through the past ages, claiming that if it had not been for insect aid in the past we should now see instead of our gorgeous flowers of orchids, lilies, magnolias and roses a vegetation consisting chiefly of ferns, cycads, conifers, willows, alders and rushes.

Baltimore.

Business has been a little quiet this week say the most of the dealers, though many think the season as a whole, so far, an improvement on last year.

Mr. Robt. J. Halliday in his new store No. 111 North Charles street, is one of these, and looking around his new quarters it seemed as if he had a perfect right to say it. That the trade is advancing rapidly is evident from the number of new stores opened in the city every year, all of whom must make a living or they would quit. Galloway & Cristie have opened one at No. 8 Charles St. Avenue.

Then again there is every year an increase in the glass of growers. Even though the complaint is heard: "Oh, there's nothing in it. It is overdone." Yet the tearing down of commercial houses is a rare sight unless for the purpose of erecting new and larger ones. Even when some wary capitalist concludes to save at the spigot of his greenhouse what he wastes at the bunghole of horse races and stock gambling, there is always some one to buy the said greenhouses and put them to account in making an honest livelihood.

The schedule of premiums for the chrysanthemum show is being distributed and shows the effect of two years experience. To say that it is in every way an improvement on those of the past years is the very least that can be said of it. One specially meritorious feature is that the prizes for commercial florists, amateurs employing gardeners and amateurs not employing gardeners are carefully segregated in three classes.

The list contains prizes for all other plants that will probably be in condition for showing at the same time with the "mums," and while the size of the premiums is still necessarily below those offered by some of our neighboring villages who have been at it longer, they are such as would have terrified the cautious ones three short years ago.

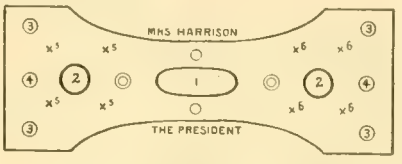
The Gardeners' Club has concluded to try holding a banquet and general reunion of the craft after the annual election of officers which takes place early in March. If some plan could be devised to make it free to all, so that the least as well as the greatest of those interested in floriculture might partake, it would undoubtedly do much good and swell the membership list; as it is it will no doubt be enjoyable, and perhaps afford a little entertainment to those who hear tell of it.

Prices are low here at present, first class La France bringing $8, Perles $6, violets 50 cents a 100, callas 75 cents a dozen, tulips $3 to $5, Roman hyacinths $3, carnations $1 to $1.50 a 100; other stuff in proportion. MACK.

Washington, D. C.

The annual dinner given by the President to the Diplomatic Corps is generally looked forward to by our foreign friends here as *the* event of the season, as the White House on that occasion more than on any other puts on its choicest colors and more elaborate floral attire. This year orchids were selected, or rather, twelve months ago it was determined that orchids should reign supreme at the 1892 diplomatic dinner, and consequently Pfister all this time has been marshalling his forces in the orchid line, and on the 2nd inst. brought out an array of superb blooms and plants that must have astonished the diplomats.

The several parlors on the first floor, including the East room and corridors, as usual were liberally supplied with foliage plants interspersed, however, on this occasion with a profusion of azaleas, Harisii lilies, primulas, cinerarias, amaryllis, freesias, bletias, hyacinths and tulips. In the state dining room groups of palms, Ficus elastica, marantas and different varieties of potted ferns adorned the corners and window recesses, relieved by bright foliage plants and an abundance of choicest cut flowers. The table, which was laid for forty covers, had the following form:



The floral decorations of the table consisted exclusively of orchids. The large oval centrepiece (No. 1), four feet six inches long, was filled with Cattleya trianæ and Adiantum cuneatum; at either end of this stood two pyramids of fruit tastefully arranged; next (2, 2) were two large circular pieces composed of dracænas, crotons and maiden-hair ferns, the centre plants being fine specimens of Ananasa sativa variegata three feet in height, cypripediums being interspersed among the ferns; four baskets (3, 3, 3, 3) at the four corners of the globe were filled with Dendrobium nobile and ferns, while midway between these (4, 4) were baskets filled with Phajus grandiflora, dendrobiums and ferns.

In place of corsage bouquets the ladies received as souvenirs a corsage bow of ribbon of a color to match the Cattleya Trianæ. On one lapel the south front of the Executive Mansion was printed, while on the other lapel the lady's name and the date in gold letters appeared. Each gentleman had beside his plate a boutonniere of Dendrobium Wardianum on a fern frond. The two crystal chandeliers and the three large mirrors in the state dining room were trimmed and festooned with smilax. Z.

Buffalo.

The carnationists have come and gone and the lively ripple they caused among the local fraternity has passed away. Most of the visitors stopped in town the following day and many of them visited a few of the city greenhouses. The worthy president, Mr. Lonsdale and Mr. Stewart of Boston called on the boys. Canada was well represented by two of her best growers, Harry Dale of Brampton and Walter Muston of Toronto; and most of the towns in western New York sent one or more delegates. Mr. E. G. Hill, who failed to make connections somewhere and who was missed at the meeting, arrived in the city the next morning and was shown the "remains" of the carnation display. Mr. Fancourt and his friend Mr. Long of Wilkesbarre did the falls the following day and they seemed to have been greatly impressed with the Niagara spray. There are several kinds of spray in that vicinity and your correspondent could not readily perceive which kind received their greatest attention.

There is certainly much to be learned about exhibiting carnation blooms, or rather how to keep them on exhibit. As soon as unpacked the flowers were put into glasses and their stems in water. The room was small and crowded, but certainly not more so than rooms often are at parties and receptions. Yet in less than twenty-four hours every flower was utterly collapsed. Those coming from a long distance might have been expected to wilt soon, but those exhibited by some local growers, which were picked fresh that a. m., were in equally bad condition as those that came 600 miles and that must have been picked two days earlier than the home grown flowers.

The Buffalo men all unite in thinking the meeting a most instructive and profitable one and we hope for the visitors an enjoyable one. The local florists, who felt real sorry to part with their visitors, have had their drooping spirits somewhat revived by the presence of three hustling agents of big firms, Mr. Walter Mott of Henry A. Dreer, Mr. Killen, representing J. C. Vaughan, and now with us we have the retiring but talented young man Mr. Harry Bunyard of Pitcher & Manda's great house. How cheering to have these gentlemen call and tell you "how nice your place looks." It puts vim into us.

In spite of sloppy, dull and dirty weather business has been very good and flowers of all kinds, though plentiful, have been well used up. A Main street florist supplied for a wedding last week six hearts of violets, carried by the bridesmaids, using up several thousand flowers.

G. S.

Wm. Scott's greenhouses are in splendid condition at present. Azaleas, cinerarias, primulas, cyclamens, violets, tulips and daffodils are all in bloom. The Chinese primroses are from Kelway's seed and are a fine strain. There is a big crop of callas, Harrisii and candidum lilies in prospect for Easter, and calceolarias promise well. Among the rarities are some fine dendrobiums and Acasias Drummondii and armata. Mr. Scott has caught the carnation craze, evidence of this fact being apparent in the rows of little pots with big numbers attached.

St. Louis.

Our retail men report business good with a good prospect for next week. Roses of all kinds still in demand. Funeral work somewhat lighter, but for other set work there have been some large orders, among them being an order for a large bouquet of 150 roses in some six or eight sorts filled by Sanders & Beneke, and a large table decoration in which 100 Am. Beauties were used, filled by Mr. Weber. Roses are off crop now with many of the growers.

There seems to be a remarkably good showing for specialists in this city. We can grow good roses and carnations and

why send east for stuff that often disappoints on account of delays and lack of freshness. An agent of Pitcher & Manda's was doing the rounds on Saturday.

J. W. D.

Philadelphia.

Messrs. Harris and Craig have just returned from a two-day's trip through the carnation belt, and report the girdle sadly in need of repair, it being very rusty in spots; portions of it, however, were quite bright, notably in the vicinity of Chambers Brothers, whose plants are in fine condition and flowering abundantly.

At Dingee & Conard's rose nursery everything looked prosperous. One million plants are to be seen in all stages of growth from the cutting bench to plants ready for mailing, which is their principal business. Their spring trade is just commencing, and an idea as to the magnitude of their business may be gathered from the fact that their mail now numbers over 1,200 letters a day.

During the recent troubles of the Ferguson Brothers, John Westcott advanced money to help them out, and as a result at the sheriff's sale of their place recently, was obliged to buy it in to protect his interests. His brother William, now on North 2d St., will remove to and conduct the business, as John, who is a dealer, does not want to be a grower also, his interest in the city store demanding his whole attention. It should certainly be a good stand, being adjacent to two large cemeteries.

Robert Craig has just completed a house 20x100, "to make it warm for his crotons," so he says, he having a large stock of these plants coming on.

Trade the past week has been lively, plenty of business and good stuff to do it with makes the average florist happy, and that has been the condition of things lately.

Flowers as a rule have been fine and in good demand. Prices are about the same; perhaps a shade lower.

In the bowling tournament things are getting red hot. McLean, Kennedy and Heron are leaders in the order named in the first class with only 3 pins between them, while 3 others are within 60 pins of them, and there are still 5 series to come, in which there may be many changes. In the second and third classes there is, we believe, no change, the present leaders holding their own.

Toronto.

The Gardeners' and Florists' Association held its monthly meeting on the 16th and as usual it was a lively one. The prize list for the chrysanthemum show in November next was the topic that created most interest. The "single stem" fad was again to the fore and this year the advocates of that system showed a decided falling off and those who felt strongest on the subject were not uninclined to meet the opposition half way. To me the whole thing seems to lie in a nutshell; we want a good show, we want the best plants that can be grown at the show, if they can be grown better otherwise than on single stems by all means let them be grown the better way; why should it be a matter of compulsion to grow them one way only? But these old fashioned notions do die so very hard. There will be another silver medal for competition, but for what section has not been decided yet.

The flower table was richly adorned at this meeting with orchids and other beauties. Mr. Thos. Manton brought blooms of two varieties of the white Cattleya Trianæ; Mr. A. McPherson, gardener to Col. Sweeney, brought a Jacqueminot colored seedling carnation, a cross between Portia and Silver Spray, large, well formed and strong of stem; Mr. Geo. Vair brought some single blooms of extra large and bright colored cinerarias, a spray of the hanging basket Begonia glaucophylla grandiflora (I think that is right), blooms of Lycaste Skinneri, L. aromatica, Cœlogyne flaccida (smelling strong of the stable) and others. Mr. Hollis brought blooms of Cyclamen grandiflorum, pink and white, which for size and color could not be beaten; they were taken from plants 15 months from the seed.

It was suggested that at the next meeting members should bring specimens of any flowers the names of which they did not know or had forgotten and I think an interesting half hour will be the outcome.

From some cause or other for which no doubt forty reasons could be given by forty different florists, trade has not been up to the mark this last week, but expectations are high for next week—the week before Lent.

The association has changed its night of meeting and it is now held on the third Tuesday of the month. This being a pious city and the gardeners and florists thereof being especially pious people, it was found that the prayer meetings usually held on Wednesday evenings made it inconvenient for many to attend the meetings of the association. I have no doubt that those of your readers who were here last August can quite believe this.

E.

Cincinnati.

The February meeting of the Cincinnati Florists' Society was one of the most enthusiastic meetings that we have had for a long time. Chrysanthemums and chrysanthemum shows were largely discussed and J. A. Peterson favored the society with a paper entitled "The Cultivation of Chrysanthemums." The preparations for our show are advancing rapidly and we shall endeavor to have the best show that has ever been given in Cincinnati, the details of which I shall have the pleasure of giving you later.

Trade is exceptionally good in all branches of the cut flower business and stock is very scarce. Hybrid roses are beginning to show their faces at the wholesale houses. Orchids are coming into bloom nicely and so far the supply has equalled the demand.

E. G. GILLETT, Sec'y.

Chicago.

Emil H. Mailander, the West Madison St. florist, died Feb. 21, after a brief illness, aged 26 years. He was married only six months ago. He was a strong looking young man, and his death was a great shock to his friends, none of whom had expected a fatal termination of his illness.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As a cut flower worker by a young man 21 years old; 7 years' experience. Address C. DORSEY MISH, Lebanon, Pa.

SITUATION WANTED—By young man in a wholesale establishment, to learn the trade. References. Address Box 312, Waynesboro, Pa.

SITUATION WANTED—By a florist and gardener; German; age 32; small family; strictly temperate; 19 years in the business First-class reference. Either private or commercial Address FLORIST, East Moriches, L. I., N. Y.

SITUATION WANTED—By a first class man, as head gardener; have had 20 years' experience in Europe and America; understand all plants, orchids especially; have laid out some of the foremost places in the country. Address S. J. F., care Am. Florist.

SITUATION WANTED—By a thorough, practical florist, fully competent to take charge of a large commercial place. Has had experience in leading places in England and the States. First-class references. Good wages expected. Address COMPETENT, care American Florist.

SITUATION WANTED—On private place as foreman by first-class florist and landscaper; thoroughly competent to take charge of large place; 20 years' experience. Married, no family. Best of references. Please state wages. WM. MILLER, 1019 7th St., N. W., Washington, D. C.

SITUATION WANTED—By a practical gardener and florist, competent to take charge of a large place where roses, carnations, violets, smilax and bulbous stuff is grown; experience in making up, 22 years in the business, sober and good disposition, aged 42; have a son, a hustler about greenhouse, can steamfit and run steam boiler, aged 19. Address R, care Am Florist.

WANTED—Good man to work in greenhouse. Steady position. R S, care Am. Florist.

WANTED TO RENT—Greenhouses, dwelling and some land near market. Address WISE, Mt. Prospect Ave., Newark, N. J.

WANTED—Boy or young man with some experience in greenhouses. State wages and experience. Address GEO. S. BELDING, Middletown N. Y.

WANTED—Competent man to take charge of cut flower and plant departments in commercial greenhouses; must be a good rose grower. State wages CRABB & HUNTER, Grand Rapids, Mich.

WANTED—A young man for general greenhouse work; must have some experience. A good potter, with some experience in making up, preferred. State wages, etc. Address D. B. WOODRUFF, Macon, Ga.

WANTED—Rose grower. I want a man to take charge of rose houses at Kansas City, Mo., June 1st. Must be competent, sober, honest and reliable. Must come well recommended. None but a first-class man need apply Address N. S. GRIFFITH, Independence, Mo.

WANTED—At once, as foreman, a thoroughly competent plantsman, experienced in growing of usual assorted stock for cut flowers and plants for a general shipping trade. Also an experienced and capable assistant Must come well recommended. Apply to CURRIE BROS., Milwaukee, Wis.

FOR SALE—Five greenhouses and stock on large lot, location best in the city, with a good trade. Address WM. MILLER, box 99, Chillicothe, O.

FOR SALE—At great bargain, all or any part of 200 glazed door and window frames; just the thing for greenhouse use. CHICAGO FORGE & BOLT CO., 40th St. and Stewart Ave., Chicago.

FOR SALE—150 feet frontage, 164 feet deep, only 4 miles from Chicago, Ill., with three greenhouses in full stock, and a neat six room cottage. Apply for particulars, O F, care American Florist.

FOR SALE—Two greenhouses, well stocked with general line of plants in healthy condition; good dwelling house, wind engine and 3 to 5 acres of good land; natural gas; town of 5 000. For further particulars address P. O. box 430, Portland, Ind.

FOR SALE—My florist business, dwelling, hothouse well stocked; good trade; smart city; best location. Come and see. Low price; half purchase money may remain on mortgage. Sickness. LEWIS R. FOX, Gloversville, N. Y.

FOR SALE—At the low figure of $2000, a well established florist business located in the heart of the city of Portland, Oregon, containing 4,500 square feet of glass, well stocked, and dwelling house, with store. Rent $30 per month. For further particulars write to P. HEFTY, Portland, Oregon.

FOR RENT,

ON ACCOUNT OF BAD HEALTH.

Ten greenhouses with stock. This is one of the best places in the United States for shipping purposes. You can ship plants all through the South in Jan and Feb'y in open boxes, and that is a great advantage to a florist You can establish a very large shipping trade from here south, as it is a great point to ship cut roses, as a man can ship all the roses he raises to Mississippi, Louisiana and Texas, and all other principal cities. There is one drawback to shipping roses from the North here—it is too far. This place has a large local trade and has been established since 1868, and is all heated by low pressure steam. We will be ready to rent by the 1st of June—with or without stock—and that is plenty time to plant your roses. Those that are planted in July produce more roses for the holidays than any other time. This is a good chance for a man to get a big start on a little money For further information, apply to H. MOORE, 54 Beal St., Memphis, Tenn.

Please mention the AMERICAN FLORIST every time you write any of the advertisers on this page.

ROSES.

A Chance to Triple your Money.

NOW READY. (Safe Arrival Guaranteed.)

50,000 ROSES, from 2-in. pots, $3 per 100; $30 per 1000.

Plant in 3 inch pots, and they will bring you from 10c to 15c each readily.

50,000 ROSES, from 3-in. pots, $5 per 100; $50 per 1000.

Plant in 4 inch pots and they sell readily from 20c to 25c each.

N. B.—Our stock is not forced nor are the plants long and drawn, but have an abundance of leaves and roots.

Varieties you can select from by the 100 or 1000, provided one or the other sorts is not sold:

Agrippina,
Archduke Charles,
Aline Sisley,
Archduchess M. Immaculata
Bon Silene,
Chas. Rovolli.
Comt. de Labarthe (D. de Brabrant),
Catherine Mermet,
Coquette de Lyon,
Hermosa,
Etoile de Lyon,
Gloire de Dijon,
Jules Finger,
La France,
Lady Washington,
Louis Phillipe,
Marie Guillot,
Malmaison,
Marie Van Houtte,
Miss Ethel Brownlow,
Mme Caroline Kuster,
Marechal Niel,
Mme. de Watteville,
Mme. Pauline Labonte,
Mme. Brett,
Mme. Abel Carriere (M. Noisette),
Mme. Jos. Schwartz,
Mme Laur Marring, (pure new Bengal),
Ophelia.
Perle des Jardins,
Queens Scarlet,
Rubens,
Suzanne Blanchet,
Sombreuil,
The Bride,
Reine Olga,
Pink Daily,
Nic de Wautier,
Waban.

We also have **50,000 HYBRID ROSES,** strong, 2-inch pots in 25 best leading sorts, $5 per 100; $50 per 1000.

20,000 4-INCH POT ROSES, $10 to $20 per 100 according to variety and quality.

POT ROSES, in bud and bloom, $20 to $25 per 100.

Wholesale and Retail Catalogue upon application. Lists cheerfully priced and samples mailed if desired.

FOR EVERYTH'NG IN THE FLORIST LINE,

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LOUISVILLE, KY.

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(ON OWN ROOTS)

Propagated last summer and now pushing into growth in 2½ inch pots. Shifted into 4 or 5 inch pots will make splendid plants. A large stock in nearly forty varieties including the following and other good sorts.

Albert Victor,
Fair Rosamond,
The Gem,
Jackmanni,
Lawsoniana,
Lady Caroline Neville,
Lord Londesboro,
Miss Baker, (*White*)
Mrs. Howard Wyse, (*White*)
Miss Bateman, (*White*)
Sieboldi, *or Ramona.*
Viticella Venosa.

PRICE OF PLANTS, 10 to 20 inches high:—

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30,000 LOW BUDDED ROSES.

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La France, Etc., Etc.

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5,000 1 year old, 2½ to 3 feet high, well branched, $15.00 per hundred.

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ROSES, CARNATIONS, VIOLETS,

Bouvardias, Chrysanthemums, double white and single Primroses, Echeverias, Alternantheras, Smilax, Coleus, Begonias Poinsettias, Cyclamens, Adiantums, Geraniums, Fuchsias, Pandanus Veitchii, Ferns, Hydrangeas, Palms, Dracænas, etc. Healthy plants; large stock, and low prices. Best new and old varieties. Write for price list.

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Have your spring trade list printed on this page. We will circulate it to 5,000 buyers, and the whole cost will be less than the postage would be on the same number mailed by you.

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ROSES.

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We are headquarters for the Meteor and Climbing Perle des Jardins.

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A Mischievous Bill.

The following bill was introduced in the House of Representatives by Mr. Caminetti of California, on January 15, and after a second reading was referred to the committee on agriculture.

A BILL.

To prohibit the interstate transportation of trees, plants, vines, or other nursery stock infested with scale insects, or codlin moths, or other pests, or with their eggs, or larvæ, or infected with any diseases injurious to trees, plants and vines, and the importation into the United States from any foreign country, of any thereof so affected; to provide for penalties for violations thereof and defining the duties of certain departments of the United States with relation thereto.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, that every person who, either as owner, agent, or otherwise, shall ship or offer for shipment on any railroad, ship, steamship, express, wagon, or other mode of transportation, consigned to any point in the United States beyond the boundaries of the State, Territory, or District in which such shipment is offered for transportation, any trees, *plants*, *vines*, or other nursery stock infested with scale *insects*, or codlin moths, or *other pests*, or with their *eggs or larvæ*, *or infected with* any *diseases injurious* to trees, *plants* and *vines*, shall be deemed guilty of a misdemeanor, and on conviction thereof, shall be punished by fine not exceeding one thousand dollars, or by imprisonment not exceeding one year, or by both said punishments, in the discretion of the court

SEC. 2. That every railroad, ship, steamship, express, wagon, or other transportation company or corporation carrying or transporting freight from one state to another that receives for shipment or transportation, or has in its possession in its cars, stations, depots warehouses, or other place of storage awaiting transportation as freight or otherwise, when consigned to any point in the United States outside of the boundaries of the State, Territory, or District where same may be offered any trees, plants, vines, or other nursery stock infested with scale insects and codlin moths or other pests, or with their eggs or larvæ, or infected with any diseases injurious to trees, plants, or vines shall, for every violation of this section, be liable for and forfeit to the United States a penalty of one thousand dollars. This penalty shall be recovered by civil action in the name of the United States in the circuit court of the United States holden within the district where the violation may have been committed, or the company or corporation has its principal place of business and it shall be the duty of all United States district attorneys and their deputies, and all United States marshals their deputies and subordinates, to prosecute all such violations which shall come to their notice or knowledge.

We ask our readers to examine the above bill carefully, especially the portions in italics, and consider what will be the effect of its passage on the horticultural interests of this country.

To extirpate injurious and troublesome insects, to prevent as far as possible their spread and to punish criminal disregard of the general welfare by unscrupulous dealers, is a laudable and commendable undertaking. But when the proposed remedy carries with it the virtual extinction of the plant shipping trade as the above bill plainly does and the contemplated destruction applies with equal effect to the insects and to our business it is time to sound the alarm and use every honorable means of concerted action to prevent the enactment of such ill-advised legislation.

Who is to determine whether apparently healthy stock is free from disease when experts disagree? Under the above proposed law railroads and express companies would undoubtedly refuse all shipments of plants and trees in order to protect themselves from possible penalties for infractions of the law that they could not possibly guard against and as a result the whole shipping trade would be blotted out.

Catalogues Received.

PLANTS: Webster Bros., Hamilton, Ont.; Essex Heights Floral Co., Belleville, N. J.; H. Cannell & Sons, Swanley, England; Anchorage Rose Co., Anchorage, Ky.; Nathan Smith & Son, Adrian, Mich.; V. Lemoine & Son, Nancy, France; Chas. T. Starr, Avondale, Pa.; J. Seulberger, Oakland, Cal.; H. A. Dreer, Philadelphia; Jacob Schulz, Louisville, Ky; H. Gusmus, Klagenfurt, Austria; Vick & Hill, Rochester, N. Y.; John R. & A. Murdoch, Pittsburg; F. J. Meech & Son, Charlevoix, Mich.; Forbes & Wilson, Long Island City, N. Y.; John Thorpe & Sons, Pearl River, N. Y.

SEEDS: Weeber & Don, 114 Chambers street, N. Y.; H. Cannell & Sons; Swanley, England; F. W. Ritter & Co., Dayton, O.; John A. Bruce & Co., Hamilton, Ont.; Henry F. Michell, Philadelphia; Vaughan's Seed Store, Chicago; Vilmorin, Andrieux & Co., Paris; A. W. Livington's Sons, Columbus, O.; W. W. Rawson & Co., Boston; H. A. Daacke, New York; Schlegel & Fottler, Boston; E. H. Vick, Rochester, N. Y.; H. A. Dreer, Philadelphia; John Thorpe & Sons, Pearl River, N. Y.; John R. & A. Murdoch, Pittsburg; D. M. Ferry & Co., Detroit.

NURSERY STOCK: McMath Bros., Onley, Va.; Bush & Son & Meissner, Bushburg, Mo.; Geo. Pinney, Evergreen, Wis.; J. T. Lovett Co., Little Silver, N. J.; S. C. Moon, Morrisville, Pa.; Pike County Nurseries, Louisiana, Mo; John R. & A. Murdoch, Pittsburg.

MISCELLANEOUS: E. S. Schmid, 712 12th street N. W., Washington, D. C., birds; Geo. B. Willcox, Bay City, Mich., invisible bouquet pin.

OBITUARY.

MRS. MARY E. LANE, wife of John Lane, Esq., of Chicago, passed from earth Feb. 17 at the age of 62. It will doubtless be a matter of surprise to many who knew her to learn that she was one of the little company who sought the shelter of old Fort Dearborn during the Black Hawk war of 1832.

She was married in 1847, and her husband retiring from active business many years ago, devoted much of his leisure to the culture of flowers as a pastime, and was thus enabled to surround her daily with the beauty and fragrance in which she so delighted. A devoted wife, a loving mother, her memory will be a perpetual perfume to those who knew her best.

H.

BARBARY THORN (Lycium barbarum).—Mr. James Nisbet, Pawtucket, R. I., writes: Apropos of your note in the FLORIST, page 461, I would like to call attention to this vine (now almost extinct here) and remind you that the berries are poisonous. I would also suggest that it is useful to cover embankments or sandy places where it is hardy.

Mention the AMERICAN FLORIST when writing advertisers on this page.

Cycas Leaves

fresh cut, fine fronds, at $1.00 each, net cash. Natural, prepared to retain their fresh appearance, in four sizes, at 25, 40, 50 and 60 cts. each; quite a reduction if bought by the original package of ten.

Satin Bows

for funeral or cemetery pieces, in plain or embossed style (flower pattern) with gold or silver inscription "At Rest", edged with gold or silver fringe to match, in assorted patterns and three sizes, at 45, 60, 75 cts. and $1 each.

Capes and Immortelles

fresh crop Cape Flowers, prime white, in two grades, AA at $1.10, A at 90 cts. the lb., or $1 and 80 cts. net cash.

French Immortelles at $3.00 the dozen for natural yellow; $3.60 for white and other colors, less ten per cent. for cash.

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Catalogue free to the trade on application with business card.

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DAHLIAS.

GROUND ROOTS.

Assorted, in fifty named varieties, liberally of whites.

$6,00 per hundred; $50.00 per thousand.

JOHN R. BATHER, Clinton, Iowa.

Send for descriptive list of

CALIFORNIA RAISED and SELECTED, CHOICE JAPANESE IMPORTED CHRYSANTHEMUMS for 1892

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SMILAX, 2½ inch pots	$1.50	$12.00
Rooted Cuttings CHRYSANTHS, ready March 1st.	2 00	15.00
CHRYSANTHEMUMS, large stock plants in variety.	20.00	

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Genista Pubescens.

2½-inch pot plants, $10.00 per hundred.

This variety began blooming with us on Jan. 10th, and we think it can be had in bloom Jan. 1st. No enterprising florist should be without it

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COLEUS. COLEUS. COLEUS.

ROOTED CUTTINGS.

By the.....Hundred
By the.....Thousand
By the.....Ten Thousand

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CHICAGO, ILL.
If you do not receive our regular monthly price-list write for same
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BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
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Mention American Florist.

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Roses, Bon Silene	4.00
" Gontier	4.00@ 6.00
" Niphetos	6.00@ 8.00
" Perle, Sunset	7.00@ 9.00
" Mermets, Brides	8.00@10.00
" Hybrids	25.00@40.00
" Waban	12.00@25.00
Carnations, short	1.50@ 2.00
" long	2.00@ 4.00
Harrisii	12.00@15.00
Callas	10.00@12.00
Violets	1.00@ 1.25
Valley, daffodils	4.00
Tulips, hyacinths	3.00@ 4.00
Marguerites, Nasturtiums	1.00
Freesia, Deutzia	2.00
Mignonette, Myosotis	2.00
Pansies	1.00
Adiantums	1.50
" Farleyense	20.00@25.00

NEW YORK, Feb. 23.

Roses, Gontiers	4.00@ 6.00
" Niphetos	4.00@ 5.00
" Cusins, Watteviles	8.00@12.00
" Perle, Wootton	6.00@ 8.00
" Mermets, Brides	8.00@10.00
" La France, Albany	10.00@15.00
" Beauties, Brunners	50.00@75.00
" Diesbach, Magna	25.00@40.00
Carnations	1.50@ 2.50
Violets	.75@ 1.50
Valley	2.00@ 3.00
Tulips	2.00@ 3.00
Daffodils	3.00@ 4.00
Freesia	1.00@ 2.00
Harrisii	6.00@ 8.00
Mignonette	2.00@ 3.00
Smilax	12.00@20.00
Lilac, per bunch	1.00@ 1.50

PHILADELPHIA, Feb. 23

Roses, Brunners	50.00
" Laings	20.00@35.00
" Beauties	15.00@35.00
" Mermets, Brides	8.00
" La France, Albany	8.00@10.00
" Cusins, Watteville	5.00@ 6.00
" Perles, Niphetos, Gontiers	4.00@ 5.00
Valley	3.00@ 4.00
Carnations	1.50@ 2.50
Violets	.75@ 1.00
Daffodils	4.00
Freesia	1.50@ 2.00
Mignonette	1.00@ 3.00
Tulips	4.00@ 5.00
Romans	2.00@ 4.00
Harrisii	10.00@12.00
Adiantums	1.00
Smilax	15.00@20.00

CHICAGO, Feb 23.

Roses, Am. Beauties	15.00@25.00
" Mermets, La France	5.00@ 8.00
" Albany, Bride, Waban	6.00@ 8.00
" Bennetts, Dukes	5.00@ 8.00
" Perle, Niphetos	4.00@ 6.00
" Gontiers	3.00@ 6.00
" Bon Silenes	3.00
Carnations, short	.75@ 1.50
" long	1.50@ 2.00
" " fancy	3.00
Romans, Narcissus, Valley	3.00@ 5.00
Callas, Harrisii	12.50@15.00
Violets	1.00@ 1.75
Smilax	15.00@20.00
Adiantums	1.25@ 1.50
Tulips	3.00@ 5.00
Daffodils	4.00@ 6.00
Freesia	3.00

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A PRACTICAL Bouquet Pin which SAVES TIME both to the florist and his patrons.
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Send for my PRIMER, free.
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FOR SALE.
Imported Fantail Goldfishes,
From Japan. Also Paradise Fishes. Every florist shou'd have a few of these to breed from. Price for Japan Fantail, $1 00 per pair; Paradise, fine breeders, $3.00 per pair.
Also WATER LILY TUBERS and AQUARIUM PLANTS.
Send 2c. stamp for price list and catalogue.
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THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

The North Carolina Seed Law.

Seedsmen, retail merchants and purchasers of seeds will take notice that the last legislature passed the following law:

CHAPTER 331 LAWS OF 1891.

An act to protect seed buyers in North Carolina. The General Assembly of North Carolina do enact:

Section 1. That any person or persons doing business in this state, who shall sell seed or offer for sale any vegetable or garden seed that are not plainly marked upon each package or bag containing such seed the year in which said seed were grown, shall be a misdemeanor and upon conviction thereof shall be fined not less than ten dollars or more than fifty dollars, or imprisoned not more than thirty days, for each and every offence. Provided, that the provisions of this act shall not apply to farmers selling seed in open bulk to other farmers or gardeners.

Section 2. That any person or persons who shall, with intention to deceive, wrongly mark or not label as to date any package or bag containing garden or vegetable seed, shall be guilty of a misdemeanor and upon conviction thereof shall be fined not less than ten nor more than fifty dollars, or imprisoned not less than ten nor more than thirty days.

Section 3. That this act shall be in force from and after the first day of September, 1891.

Ratified March 5th, A. D. 1891.

The objects of this law are, firstly, the protection of innocent purchasers from being defrauded by having stale and deteriorated seeds palmed off upon them; secondly, the protection of honest and careful seedsmen and retailers who handle their seeds from unscrupulous competition. It is hoped that seedsmen and merchants will cheerfully comply with the requirements of this law.

GERALD MCCARTHY,
Botanist N. C. Agric. Exp. Sta.
Raleigh, N. C., Feb. 15, 1892.

LONDON, ONT., Feb. 19.—Mr. James Griffin, the well known seed merchant, committed suicide at his home on the Wellington road, over Clarke's bridge, this morning. Mrs. Griffin in an interview said that ever since her marriage 14 years ago her husband has met with business troubles. A few years ago he was burned out and lost considerable. Of late he has grown somewhat despondent, but continued to attend to his business at his store on King street. He was in rather poor health as well. He came home about nine o'clock in the morning and told his wife he had taken strychnine. Before a doctor could reach the scene he was dead. Deceased was in his 72d year and for 34 years he was a resident of London, and at one time one of its most prominent citizens. He was always held in the very highest esteem as a man having many good qualities. He came here from Bristol, England. He was twice married, but had no children by his second wife. He leaves two sons and a daughter.

LATE REPORTS from eastern mail trade show a falling off from 1891. All are looking for a good March.

IMPROVEMENT SEED CO. of Rochester, N. Y., are requested to send us their local address, which is asked for by a subscriber.

AMERICAN catalogues to Canada can be invoiced as merchandise and freighted to Canada. Wrappers shipped with goods, then after duties are paid, mailed as printed matter with Canadian stamps.

PHILADELPHIA.—Z. De Forest Ely gave a dinner last week, the ninth anniversary of the establishment of his business. Messrs. Johnson, Maule, Burpee and others were present. Over the walnuts and the wine interesting discussion of important trade matters was had.

MANY of the European growers are unwilling as yet, to quote prices for some of the popular varieties of forcing tulips, such as Yellow Prince, Morello and Cottage Maid, and will not even agree to deliver on the basis of last season's acknowledged high prices. Double Von Sion narcissus also shows a strong tendency upwards.

JOHN E. MOYER, of Dixon, Ill., prefers to grow onions by the new method of sowing the seed in hotbeds about the first of March and transplanting the seedlings from four to six inches apart in rows one foot apart. The transplanting is done as soon as the ground works in good condition. On the Iowa college grounds this was tried the past season and the conclusion was reached that any one can grow onions in this way from seed with as much ease and certainty as from "onion sets." If no hotbed is available the seed can be sown early in boxes.

New Bedford, Mass.

The regular meeting of the Gardeners and Florists' Club, held Feb. 8, 1892, was largely attended. The principal business was the preparing of the premium lists for the chrysanthemum exhibition, to be held this fall. The Club this year has added over $100 more than last year to its premium-lists, making a total of about $250, besides the Silver Cup, that has been won by two different parties the past two years. There seems to be quite a rivalry between those that have had the cup, for if either of them gets it this year, it becomes his property.

We also had a discussion on the violet. The members were about equally divided on the question of growing violets in cold frames or in heat. But as to the violet disease they all agreed that the cause and the remedy are as yet unknown.

The club now meets the 2nd Monday of each month. GEO. C. BLISS, Sec'y.

ROOTED CUTTINGS.

—o—

ALTERNANTHERA P. Major and Aurea Nana, 50 cts. per 100.

AGERATUM White Cap and Cope's Pet, 50 cts. per 100, by mail prepaid.

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Don't order more PETUNIAS and VERBENAS until quoted here.

S. O. STREBY,
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LILIUM HARRISII.
Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

DRACAENA INDIVISA RUBRA.
New, rich brown-red foliage, quick grower, and the best of the whole tribe.
Small pot plants, 1 ft. high, that will grow to good specimens by fall, at $10.00 per 100
Also the GREEN VARIETY, same size, from flats, at $4.00 per 100
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Window Boxes, well made, in assorted sizes as follows: 24-in., 30-in., 36-in., 40-in. and 48-in., painted complete, ⅞-in. lumber, 1c. per lineal inch.

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We have about 2000 best varieties, in 3 and 4-inch pots; will book orders till March 15th, at $10 per 100.

The World's Fair will give this class of stock such a boost that no florist can get along without them.

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The most extensive cultivators in the South of France of

EARLY WHITE ROMAN HYACINTHS,

Lilium Candidum, Paper White Narcissus, Grandiflora, Double Roman, Incomparabilis, Aurantius double, Von Sion, Trumpet Major, Freesias, Allium, Anemones fulgens, A. Rosette, very early, and Cardinal's Hat, Amaryllis Vittata, Etc., Etc.

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WILL SEND on demand THE LIST OF HIS PRICES for the aforesaid Bulbs, to be delivered free Toulon Railway Station, and also free from packing and carriage expenses on board TO NEW YORK.

THE GREAT SPECIAL SPRING NUMBER OF THE AMERICAN FLORIST MARCH 10. 1892.

COLEUS

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Hardy Border Plants

The finest collection in America.

Ornamental Trees, Shrubs, & Conifers
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LARGE AND SMALL FRUITS.
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25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other

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POINT 6.—It will contain a similar list of Carnations.

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SEND IN YOUR ORDER NOW.

AMERICAN FLORIST CO.,
54 La Salle Street, CHICAGO.

Cleaning Chimney Flues.

After reading C. H. Gleason's method on page 536 of January 28th, I will give mine which I think is far superior. I have a thimble inserted in the flue near the boiler with a lid that can be taken out and replaced in a few seconds, and another at the other end. The wiper is made of limbs from a cedar or Norway pine attached to a strip 1x2 inches, 4 feet long with a hole in the end for a bolt to attach it to the main pole made the full length of the flue. By having the wiper separate I can run the pole through from the farther end and attach the wiper which saves carrying the pole to the other end. If houses are so arranged that the pole can not be drawn through full length, bolts can be used at each splice instead of nailing them together and folded as the lengths come through. The coal we burn makes it necessary to clean the flues every week and by this method it is done in about 10 minutes.

S. H.

In the FLORIST for January 28 I noticed an article upon how a certain florist tried to get a string through a flue. Had he opened the flue at the chimney end, or rather opened the chimney on the opposite side from which the flue was connected with the chimney, then made an opening at the boiler end that would have been all that would have been necessary. He could then have taken some poles, fastened them together with heavy cord, until he had the desired length, and then pushed them through from the most convenient end. When the end of the pole had reached the farther end of the flue he could have tied his bag, or better, brush, upon it and pulled it through. The operation could have been repeated as often as necessary to clean the flue thoroughly and the time taken to open the flue and clean it and replace the bricks would have been much less than if done in the manner which he describes. If he will try this method he will soon discard his string apparatus.

GLENN R. MINER.

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First Importation of the Season of 100,000 pounds of

CYCAS REVOLUTA,

in sizes from 6 inches to 6 feet, guaranteed to be the only TRUE LONG-LEAVED VARIETY, which for beauty in foliage is far excellent to any of its kind; fast becoming a most favored Palm, highly recommended by most leading nurserymen and florists.

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Extra inducements on larger lots.

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Send orders for RHAPIS FLABELLIFORMIS. Delivered from Feb. 1st.

Per 100 shoots, from $25.00 to $40.00.

Send for new Catalogue.

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ROSES AND PALMS A SPECIALTY.

New Double White Daisy Snow Crest.

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A most distinct variety and an improvement on all existing sorts. Its habit of growth and size of flowers, in comparison with older varieties, is gigantic. The flowers, which are borne on stout, stiff stems from 6 to 10 inches long, are of the purest white and full to the center. When fully developed they rise to a conical or sugar-loaf form, and well grown specimens will cover a silver dollar.

It makes an admirable hardy garden plant or may be forced for flowers under the same treatment as violets. $2 per doz.; $15 per 10

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"LITTLE GEM."

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GREENHOUSES, WESTERN SPRINGS.

SUPERIOR STRAIN OF

ASTERS

GROWN BY

JAMES SEMPLE.

I offer my superior strain of Aster Seed for sale for the first time. White, pink, and mixed white and pink. Trade pkts. $1 00. The stock being limited all orders will be filled in rotation as they are received.

For Sale by

JAMES SEMPLE, BELLEVUE, PA.

AND

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Pittsburgh, Jan. 20, '92.

MR. JAMES SEMPLE, Bellevue, Pa.:

I consider your Asters "Mary Semple" and "Semple's White" the finest strain without exception, that I ever saw. Yours truly, N. PATTERSON.

Allegheny, Pa., Jan. 30, 1892.

MR. JAMES SEMPLE, Bellevue Pa.:

We can tell every florist in the country it is the best Aster in cut flowers for florists' use; has long stems and in good colors. LUDWIG & RICHTER.

Allegheny, Feb. 1, '92.

After years of careful selection of the most perfect flowers of Asters saved for seed, Mr. J. Semple has brought this fine strain of Asters up to perfection. The fine perfect flowers, long stems and delicate colors make this a perfect gem of Asters. As I have seen them growing in the field must pronounce them the finest sight that ever came to my notice of Asters. WALTER HARVEY, Florist.

"Decidedly the best Aster we have seen." AM. FLORIST, Sept. 24, '91, page 141.

Mention American Florist.

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Nancy Hanks.

The "Unbeaten" Carnation to date.

Cross between Century and Grace Wilder. Is a stronger grower than the former, and of a pleasanter salmon color than the latter. Has sold higher this season on the market than any bloom, save Buttercups.

Orders received now, delivered in March.

Price, $10 per 100 for Rooted Cuttings; $12 per 100 for Plants.

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And seventy other varieties of

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Including all the new kinds. Send for price list.

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Rooted Carnations.

	Per 100	Per 100
HINZE'S WHITE	$10 00	$1 25
PORTIA	12 50	1 50
GRACE WILDER	12 50	1 50
SILVER SPRAY	12 50	1 50
LAMBORN	15.00	1.75

Cuttings put in Jan. 1, on Feb. 8 99 per cent. were well rooted.

DE WITT BROS.,

Cash with order. BRISTOL, PA.

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ROOTED CUTTINGS AND PLANTS,

From 2 to 4-inch pots.

CARNATIONS, 10 New and Standard varieties.
300 Primulas Chinensis and Obconica, flowering size, strong.
COLEUS, 5 best varieties. GERANIUMS.
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A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "**DORINDA,**" a seedling of 1888—one of the best.

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Winner of the Ladenburg Cup for best pink
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NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

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WHEREAS, Parties in the trade, contrary to agreement and general understanding, and in violation of the principles of business honor and integrity, are offering, and selling, rooted cuttings of Lizzie McGowan Carnation at a much less price than they agreed to so offer and sell the same. And

WHEREAS, I have the largest, finest, and healthiest stock in the country of this superb carnation, therefore, be it

RESOLVED, That hereafter my price for fine, strong well rooted cuttings of this valuable pure white **LIZZIE McGOWAN** Carnation will be $20 00 per thousand, and five hundred at thousand rate.

H. E. CHITTY.

Paterson, New Jersey, Feb. 10, '92.

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Lizzie McGowan
CARNATION.

$3.00 per 100; $25.00 per 1000.

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Carnation Cuttings.
NEW AND STANDARD SORTS.

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PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN,** besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

Always mention the American Florist when writing to advertisers.

ROOTED CUTTINGS.

For March trade I have prepared large quantities of Carnations, Lizzie McGowan, Mrs Fisher, L. L. Lamborn, Hector, Grace Wilder, Christmas, Anna Webb and others.

Also a very choice assortment of Coleus and Geraniums. LANCASTER BEAUTY is the finest novelty in Verbenas ever offered; entirely distinct from all others. It sells at sight and no florist can afford not getting it. Perfectly clean well rooted cuttings $2.00 per 100. I have complete control of the stock, which is limited.

SMILAX AND PANSY season is soon here and I am headquarters for choice stock at low prices.

Send for Complete List. Satisfaction Assured.

L. B. 338. **ALBERT M. HERR, LANCASTER, PA.**

BEST QUALITY ROOTED CUTTINGS

GET MY LIST BEFORE YOU PURCHASE.

CARNATIONS.
Finest NOVELTIES of the year, and best Commercial varieties.

ALEX. McBRIDE,
ALPLAUS, N. Y.

COLEUS.
Best assortment in the country. All the good Bedders.

GERANIUMS.
March Delivery.

ROOTED CARNATION CUTTINGS.
NOW READY. UNSURPASSED IN QUALITY.

Golden Gate, grandest new pure yellow; J. R. Freeman, fragrant crimson scarlet; Constancy, glowing bright scarlet; $3 00 per 100; $25.00 per 1000. We have a fine stock of these.

Wm. F. Dreer, magnificent fringed rose pink; Nellie Lewis, light pink streaked with darker hue; $3 00 per 100; $25.00 per 1000.

IMPROVED Grace Wilder, the standard pink shade; $2.00 per 100; $15 00 per 1000.

Price of all other standard varieties on application. For well established plants from small pots see illustrated catalogue, mailed free.

Best home grown Double Excelsior Pearl Tuberose bulbs, $8 00 per 1000 by express.

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ROOTED CARNATION CUTTINGS.
Portia, Robert Craig, Grace Wilder and Hinze's White, $1.50 per 100
Tidal Wave, $2.00 per 100.
Lizzie McGowan, $3.00 per 100.

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McGOWAN, BRIDE, WILDER, PORTIA, FISHER, BUTTERCUP, LOUISE PORSCH, and other new and standard varieties.

ROSES, CANNAS, GERANIUMS, VERBENAS.

Superior strains of PANSIES, ASTERS and VERBENA SEED. Special attention given to the EARLIEST VEGETABLE SEED. Sweet Corn, Peas, Tomatoes, Beets, Potatoes.

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50,000
ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.

Also an unlimited quantity of pips of the above varieties. Send for price list.

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VERBENAS, DAHLIAS, CHRYSANTHEMUMS, HYDRANGEAS, COLEUS, ETC.

Illustrated catalogue of rooted cuttings and plants mailed on application.

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The beautiful PINK CARNATION NELLIE LEWIS our Specialty.

CARNATIONS
Rooted Cuttings, 50,000 now ready of the following varieties:

Silver Spray, Hinze's White, Mrs. Fisher, Jeannette, Portia, Grace Wilder, Fred Creighton, Anna Webb, and Century,

$1.00 per 100; $10.00 per 1000.

Hector and Florence, $2.50 per 100, American Flag, $2.00 per 100.

Fuchsias, finest varieties	$ 1.50 per 100
Heliotrope	1.00 "
Ageratum dwarf white and blue	1.00 "
Petunias dbl. white and variegated	2 00 "
Bouvardia double pink and white, stock plants	10.00 "
Pansies from seed bed, extra fine	5.00 per 1000
Daisies	3.00 "
2000 field grown Jack Roses	10.00 per 100

Cash with order. 10 cts. per 100 extra when ordered shipped by mail.

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BRIDGEPORT, CONN.

CARNATIONS.
Send for trade list of ROOTED CUTTINGS.

J. J. STYER, CONCORDVILLE, PA

Exhibition Rules.

ED. AM. FLORIST:—Please give your opinion on the following: 1. In the schedule for our last exhibition prizes were offered for "Best center-piece for dinner table, chrysanthemums to be the only flowers used." Some of those who entered used flowers grown by others though the regulations state that all flowers exhibited should be in possession of the exhibitors four months. Does this apply in the above case?

2. If an exhibitor lacks sufficient plants to make up the number required by the schedule is it not dishonorable for him to borrow from another grower to fill out?

SUBSCRIBER.

[1. In the copy of the schedule sent us we find no requirement as to ownership except rule No. 4 which reads: "Plants exhibited by growers must have been in their possession at least four months." This is certainly plain enough and we do not see how it can possibly be made to include flowers used in a table center-piece. 2. Certainly. This is a distinct abrogation of the rule we have quoted above. Unless the plants were borrowed more than four months before the show and were in the possession of the borrower during that time, which is very unlikely indeed.—ED.]

The Violet Disease.

I would like to say another word on the violet disease which Mr. Humphreys has called out by his remarks on page 521. Mr. Humphreys thinks I may have something more to say, but it will only be to emphasize what he says and especially this: "Light porous soil should never be used and if nothing but sandy soil can be obtained then just the top spit or sod should be used." I might add have it fresh every year.

In my first communication I stated that I had always been successful with violets until this fall and that last May I planted out my stock giving to a friend near me what I had left over. His prospered, mine failed. Since then I have learned that my friend's violets were planted in some fresh top soil taken from where a heap of manure had been standing all winter. I had to change the location of my frames last spring and I am now well aware that the soil was not fresh and besides it was light and porous in the new position. Considering that the plants were the same at the start in both cases, as well as atmospheric conditions through the summer, I can only conclude, in the light of what Mr. Humphreys says, that my failure was due to a light soil. If not, I give the conundrum up.

C. D. WADSWORTH.

BEGONIA AND CHOICEST CHRYSANTHEMUMS—$2.50 PER 100. LIST FREE. T. H. SPAULDING, ORANGE, N. J.

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Discard old and unsalable varieties which every one has and no one wants to buy. Freshen your stock with new and recent prize winners. Your selection. 100 plants, 20 kinds 5 of each, $3.00 expressed Cash with order. Stock limited. Buy at once. A. Swanson, Alcazar, E. Pruss, C. Hartweg, Dr. Brigham, E. D. Smith, E. Stein, Emma Dorner, Emily Dorner, Innocence, J. Dyer, L. Bates, Mrs. Ley, L. Cartledge, Mrs. Westcott, Mermaid, Twilight, International, J. H. Pitcher, G. Daniels, Leon Frechc, M. Ward, Mrs. Emlin, J. L. Childs, Shasta, Advance, Moseman, Kioto, Canning, L. Byron, M. Harding, Parson, Mattie Stewart, Pandanus, R. Fleweday, Sugar Loaf, Vonitza, C. Canfield, F. Fortesque, J. Vaughan, California, Brilliant, Newton, Favorite, Pink Pearl, Ontario, Sylvia, Triomphe Tyro, L. B. Bird, Warrior, W. Lunt, E. G. Hill, Flora McDonald, Maudie, Michigan, Delicata, Royal, Aquarium. 100 varieties, all different, pot grown, $2.50.

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Immense stock in endless variety, ready for

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THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

—NO RUST OR MILDEW.—

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

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THE GREAT SPECIAL SPRING NUMBER OF THE AMERICAN FLORIST MARCH 10. 1892.

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Verbenas

FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30.00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	3.00	25.00
" " Rooted Cuttings	1.00	8.00
Lemon Verbenas, 1 year old, strong	6.00	

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1.00	8.00
Feverfew (Little Gem), extra strong	2.00	15.00
Salvia splendens, extra strong	1.50	12.00
Moon Vine	2.00	
Ageratum, blue and white	1.25	10.00
Achyranthes Emersonii, etc.	1.00	
Heliotrope, light and dark—no rust	1.50	12.00
Begonias, assorted, fine	2.00	
Gazenias, splendens and variegata	2.00	

WOOD BROTHERS,

FISHKILL, N. Y

Mention American Florist.

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UNITED STATES NURSERIES

Every reader of this paper is cordially invited to attend our

ORCHID SHOW

February 29 to March 5 inclusive.

Respectfully,

PITCHER & MANDA,

SHORT HILLS, N. J.

TIME TABLE FROM CHRISTOPHER OR BARCLAY STS., NEW YORK, D. L. & W. R. R.

Trains marked with an asterisk (*) are Express trains with special cars from New York to Short Hills and from Short Hills to New York.

From New York.		To New York.	
Leave New York, Christopher or Barclay Sts.	Arrive Short Hills	Leave Short Hills.	Arrive New York.
7 30 a. m.	8 34 a. m.	9 00 a. m.	10 00 a. m.
7 50 "	8 54 "	9 50 "	11 00 "
8 30 "	9 47 "	10 20 "	11 30 "
*9 00 "	*9 58 "	10 55 "	12 00 m.
10 10 "	11 17 "	12 14 "	1 20 p. m.
11 10 "	12 19 p. m.	1 44 p. m.	2 40 "
*12 00 m.	*12 58 "	3 00 "	4 10 "
1 30 p. m.	2 37 "	*3 38 "	*4 40 "
*2 20 "	*3 17 "	5 05 "	6 10 "
2 30 "	3 59 "	6 25 "	7 30 "

New, Rare and Beautiful Plants, ORCHIDS, ETC.

A collection of the most beautiful Fancy Caladiums ever offered; with the Newest and Rarest Hothouse and Greenhouse plants, carefully grown, and at low rates.

ORCHIDS—A very extensive collection: East Indian; Mexican; Central, South American, etc.

Hardy Perennials, Roses, Clematis, Pæonies, Phloxes, etc.

New and Rare Standard Fruits; Rare and Beautiful Trees and Shrubs, Evergreens, etc.

Catalogues on application.

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The finest stock in the **WORLD.** Nearly five acres devoted to their culture.

SANDER'S,
ST. ALBANS,
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Thirty minutes from London.

Orchids.

Established and Fresh Imported—Specially Cattleyas; very useful for cut flowers, at greatly reduced prices.

Best quality of Orchid Peat. Write for price list.

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P. O. Box 322. **SOUTH ORANGE, N. J.**

Mention American Florist.

Rooted Cuttings.

CARNATIONS, CHRYSANTHS, GERANIUMS, COLEUS, VERBENAS and MISCELLANEOUS BEDDING PLANTS. Cheap for cash. Send for price list.

JOHN J. CONNELLY, BRYN MAWR, PA.

WATER LILY SEED.

Nymphæa Scutifolia.....pkt. 25 cts.
Nymphæa Lotus.....pkt. 25 cts.
Nymphæa Dentata.....pkt. 25 cts.
Nymphæa Zanzibarensis, seed saved from the true purple variety, sown now will furnish flowering plants this summer pkt 25 cts : 5 pkts. $1.00.

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CLEARANCE SALE.

To clear out our LARGE SURPLUS STOCK of Bulbs we offer up to April 1st,

FREE DELIVERY TO ANY PLACE.

	Per 100	Per 1000
Auratums, 7 to 9	$ 6.00	$50.00
" 8 to 10	7.00	60.00
" 10 to 12	8.00	70.00
" Monster	10.00	
Rubrum, fine bulbs	$ 8.00	$70.00
Album, fine bulbs	10.00	90.00
Longiflorum, **Monster,** 9 to 12 in.	8.00	70.00

Remember we pay Freight Charges.

CYCAS REVOLUTA STEMS. **BONA FIDE STOCK.**

Refer to the best firms in the U. S. for whom we have imported thousands of pounds for 8 years.

TREE FERN STEMS, roots and fronds cut off. **ARAUCARIAS,** in sorts.

JAPAN MAPLES.

FLORISTS, TRY THEM. Nothing more unique than their beautiful foliage for floral work and decorations.

Tree Pæonias, single and double; **New Herbaceous Pæonias; Iris Kæmpferi; Hardy Magnolias; Fresh Palm Seeds.** Time to make up orders for **Calochortus, Brodiæas, Fritillarias, etc.**

SEND FOR CATALOGUE.

ESTABLISHED 1878.

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TUBEROUS BEGONIAS, Seeds and Bulbs.

Our own grown Superior Strains.

TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

TESTED SEEDS of VICTORIA REGIA and all other WATER LILIES.

FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

ROSE HILL NURSERIES. SIEBRECHT & WADLEY, New Rochelle, N. Y.

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NOW IS THE TIME TO SOW SEED.

SINGLE OR DOUBLE MIXED.....trade pkt. $1.00
SINGLE TO COLOR (9 colors $4.00)..... " .50

Half packets if desired. Send for new descriptive catalogue.

F. J. MEECH & SON, Charlevoix, Mich.

PREPARE YOUR ADVS. NOW FOR OUR SPECIAL SPRING NUMBER MARCH 10.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER
QUEDLINBURG, GERMANY.

MUSHROOMS FOR THE MILLION



There's money in growing Mushrooms. Constant demand at good prices. Any one with a cellar or stable can do it. Our Primer and Price-list tells how to grow them. Free. Send for it. A trial brick of Spawn (enough for a 3x4 experiment), by mail, postpaid, for 25c. By express, 5 lb for $1.00; 18 lb for $2.00; 50 lb. for $5.00. Special rates on large lots. JOHN GARDINER & CO., Seed Growers, Importers and Dealers, Philadelphia, Pa. **Gardiner's Seeds:**—New Catalogue for 1892 now ready. Free. Send for it.

Tuberous Begonias.

We will have ready March 15, Seedling plants of above in colors, red, pink, salmon, yellow, white, at $3 00 per 100. Mixed, $2.50. Double ones later, at $5 00 per 100. Separate colors, finest strains.

Tubers all sold, except red and some double ones of all the colors, only few whites.

HYDRANGEAS, CALLAS, 3-in. Cheap.

BRAUER & RICHTER, McConnelsville, Ohio.

1,200 BEST DOUBLE FEVERFEW.

ROOTED CUTTINGS $1.50 a hundred, or $15 for the lot.

HENRY KRINKLE, 43 Jessamine St., St. Paul, Minn.

A Remedy for the Fuchsia Bug.

The insecticide known as Little's Antipest is worthy of a trial by every plant grower in the land. I confess I lacked faith in it for some time, but as the fuchsia bug (Graptodera exapta) seemed to grow fat on all other remedies I was induced to give it a trial, which resulted in success, one application destroying nearly all, while the second application rid the plants of the pest. The bug seemed to be very fond of the Mexican primrose, both inside and out, but persistent use of antipest destroyed both larvæ and mature insects so we are entirely rid of the pest. I deem it a boon to growers of fuchsias and all plants belonging to the onagraceæ on which this insect feeds. I have had beds of godetias entirely destroyed by them. The above is unsolicited and without the knowledge of those offering antipest for sale, but I take pleasure in recommending it to all. E. S. MILLER,
Sup't for John Lewis Childs.

Root Knot on Begonias.

There is no cure for the root knot. The best thing to do is to put in the cuttings and burn the old plants. The root knot can be prevented by baking the soil. If this is not convenient, sprinkle some lime with the soil before using. If there are nematodes in the soil you will see them jumping around. Also, water the plants with lime water every eight or ten days. ROB'T SHORE.
Ithaca, N. Y.

Sow Bugs.

Can some reader of the FLORIST tell me how to rid my place of sow bugs? I keep them down to some extent by killing them by dozens or hundreds at night, but if there is a way of wiping the entire colony out, would like to be informed. They climb upon the plants and eat the carnation flowers and make themselves generally unpleasant. S.

We will print your spring trade list on this page and circulate it to 5,000 buyers for $42.

BEGONIAS
ARE THE
LEADING LINES NOWADAYS.

I can send you from my unrivalled collection per **sample mail** free:

6 superb singles, distinct colors, for	$1.00
6 ditto doubles, for	2.00
Large packet seed of prize singles,	1.00
Half packet,	.50

Price list and pamphlet on culture, gratis.

JOHN R. BOX, BEGONIA GROWER,
CROYDON, ENGLAND.



Kills Mildew and Fungus growth. What does?
GRAPE DUST.
Sold by Seedsmen.

THE GREAT ANTIPEST.
For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

Sherwood Hall Nurseries.

TIMOTHY HOPKINS,
MENLO PARK, San Mateo Co., CALIFORNIA.

CARNATIONS, ROSES, VIOLETS, CHRYSANTHEMUMS AND CUT FLOWERS.

SWEET PEA SEED A SPECIALTY.

AZALEAS MOLLIS.
Splendid dwarf grown plants covered with flower buds, fine mixed colors. $15.00 to $20.00 per hundred.

HARDY GHENT AZALEAS.
Fine named sorts. Strong budded plants. $20.00 per hundred.

PALMS. Fine grown plants in the following kinds: ARECA BAUERI, KENTIA BELMOREANA, FORSTERIANA and CANTERBURYANA, COCOS WEDDELIANA, LATANIA BORBONICA, PHŒNIX RECLINATA, CORYPHA AUSTRALIS, SEAFORTHIA ELEGANS, Etc., in all sizes and prices.

J. APERS, Nurseryman,
LOOCHRISTY, GHENT, BELGIUM.

For Spring Potting.
The best time to pot off small Palms and Foliage Plants is NOW, and they will then be ready to fill houses with for summer, after bedding plants are cleared. Cheap plants as follows:

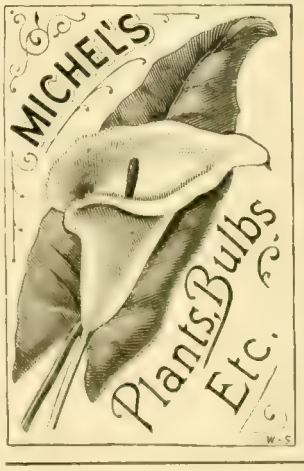
	Per 100
Aralia Sieboldi, 2-inch pots	$10.00
Pandanus utilis, 2-inch pots	10.00
Areca lutescens, 2-inch pots	10.00
Dracæna terminalis, 2-inch pots	8.00
Latania borbonica, seed boxes	4.00
Cocos Weddelliana, seed boxes	8.00
Cocos plumosa, seed boxes	8.00
Asparagus plumosus, 3½-inch pots	40.00
Begonias, tuberous, single, finest flowers, distinct colors	10.00
Begonias, tuberous, double, very fine.	20.00

(Begonias are started, but can be mailed for next three weeks)

JOHN H. LEY,
Tropical Nursery, Anacostia. WASHINGTON, D. C.
Mention American Florist.

If your spring trade list will go on this page we will circulate it to 5,000 buyers for $42. If it will go on half the page it will cost only $21.

P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, France.
A general assortment of Fruit Tree Stocks such as Apple, Pear, Myroholan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada
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Write for wholesale list.
MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

PRINT
YOUR SPRING
TRADE
LIST HERE.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

DISSOLUTION.

Notice is hereby given that the firm of John L. Diez & Co. has been this day, by mutual consent, dissolved. All accounts are payable at the office, 530 North Halsted St.

JOHN L. DIEZ,
JOHN C. MONINGER,
JOHN G. OTTMANN.

Chicago, January 1, 1892.

NOTICE.

The Greenhouse-Construction Material Department, heretofore carried on by John L. Diez & Co., has been purchased, and will be succeeded and carried on by the undersigned at Nos. 297 to 307 Hawthorne Ave. Respectfully yours,

JOHN C. MONINGER.

Chicago, February 1, 1892.

JOHN C. MONINGER,

MANUFACTURER OF

CYPRESS BUILDING MATERIAL

— FOR —

Greenhouses, Rosehouses and Conservatories.

Office and Factory, 297 to 307 HAWTHORNE AVENUE.

CHICAGO, February 1, 1892.

Would herein announce to the patrons and the trade in general, that the undersigned has had entire charge of the Greenhouse-Construction Material Department of John L. Diez & Co., that the same will be carried on and conducted on the same principles that has characterized the name of John L. Diez & Co. in the past, and therefore solicits a liberal share of your patronage.

Respectfully yours,

JOHN C. MONINGER.

SASH BARS

VENTILATORS, RIDGES, GUTTERING AND LUMBER.

NO WIDE-AWAKE FLORIST need be told it will pay him to use SASH BARS, etc. made from

CLEAR CYPRESS.

Bars all Shapes up to 20 feet long.

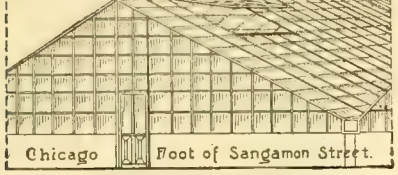
☞ Send for circulars and estimates.

LOCKLAND LUMBER CO.,

Hamilton Co., LOCKLAND, OHIO.

A. DIETSCH & CO.,

CLEAR CYPRESS & PINE GREEN-HOUSE RAFTERS VENTILATORS, HOT-BED SASH, GUTTERING &ETC



Mention American Florist.

BOXES. BOXES. BOXES.

Three-Piece Wood Mailing Box.

The neatest and strongest box on the market. Send 15 cts. in stamps for sample nest and price list. I also make Cut Flower and Express Boxes.

W. E. SMITH,

Successor to SMITH & SMITH,

Hardin County. KENTON, OHIO.

No Trees LAST & BEAR like WHOLE ROOT Trees; see "Fruits and Fruit Trees"—Free. *Amer. Garden* says: Novel, USEFUL, to the point. *Orange Judd Farmer:* Ably written; gives trusty INFORMATION. *Cal. Fruit Grower:* Surprising LOW prices! Apple, Pear, Cherry, Plum, PRUNE, Peach, Ap't, Quince, Nut, Or. Trees, Grafts, ROSES—*everything*. No larger stock in U.S. No BETTER. No cheaper. STARK BROS., 31st St., Louisiana, Mo.—Founded 1825; OLDEST. 1000 Acres; LARGEST



per barrel; 6 barrels, $5.00. 20 barrels, $15.00.

2,000,000 EVERGREEN CUT FERNS NOW READY.

Special attention paid to supplying the wholesale trade.

Single thousand, $1.25; in lots of five thousand and upwards, C. O. D., $1.00 per thousand.

SPHAGNUM MOSS. Long, clean fibre, hand sorted, DRY or GREEN, $1.00

BOUQUET EVERGREENS, $2.00 per barrel.

L. B. BRAGUE, Hinsdale, Mass.

ESTABLISHED 1866.

FLORISTS' WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

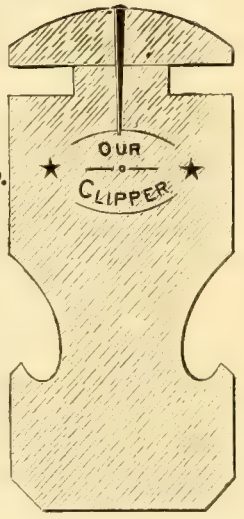
335 EAST 21ST ST. NEW YORK.

Do **NOT** build nor repair **OLD BENCHES** before investigating the Perfect Drainage **BENCH TILE.**

For circulars, etc., address **W. P. WIGHT,**

UPLAND GREENHOUSES. MADISON, N. J.

BUTTED GLASS SASH BARS.



Does away with all puttying and trouble in replacing broken lights of glass. We have been busy filling orders for this kind of a bar, in

Clear Cypress.

Shall we book your order next?

Enclose 2c. stamp for sample.

ADDRESS

LOCKLAND LUMBER CO.

A. M. STEARNS, Mngr. LOCKLAND, OHIO.

THE GREAT SPECIAL SPRING NUMBER OF THE AMERICAN FLORIST MARCH 10. 1892.

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, $2 00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

AGENTS: A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; E. Kaufman, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; J. Pitzholt, 291 Gratiot Ave., Detroit, Mich.; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.

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J. MANZ & CO., Engravers,

107 Madison Street, CHICAGO, ILL.

Their work in this journal speaks for itself

Publishers AMERICAN FLORIST.



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SPECIALTY.

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H. BAYERSDORFER & CO.,

WHOLESALE

FLORISTS' SUPPLIES ONLY,

56 N. 4th Street,

PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

Tobacco Stems.

I make a Specialty of packing stems for flower growers.

Prices and references sent on application.

H. A. STOOTHOFF,

417 E. 76th Street, NEW YORK CITY.

Mention the American Florist when writing to advertisers on this page.

News Notes.

ELMIRA, N. Y.—A. T. Rice, florist, has failed.

NEW ORLEANS.—Mr. R. Maitre is a sufferer from the all prevailing "grip."

TOLEDO, O.—A. M. Sheen retires from the firm of J. G. Gartner & Co., florists.

AURORA, ILL.—W. L. Smith suffered a loss of about $1,000 by fire in his greenhouses Feb. 13. No insurance.

MILWAUKEE.—It is generally understood here that Mr. E. H. Hunt, of Chicago, is about to open a branch in this city.

BRISTOL, R. I.—The greenhouses of G. S. Congdon were almost totally destroyed by fire on Sunday forenoon, February 14. Loss about $1,800, partially covered by insurance.

BURLINGTON, VT.—Trade has been light since the beginning of January except in cut flowers and designs for funerals. The demand for bunches of long stemmed flowers is displacing much of the design work here.

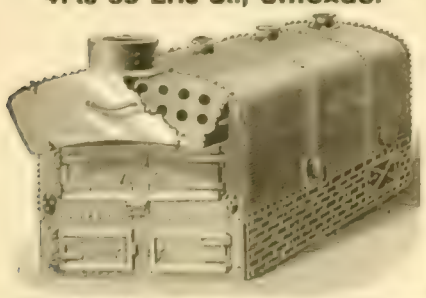
YONKERS, N. Y.—The greenhouses of J. W. Cahill took fire from a defective flue on the evening of Feb. 12 and were badly damaged, the loss being estimated at $2,500, $2,000 on the stock and $500 on the buildings.

MONTREAL—Mr. A Martin has taken Mr. Wm. Evan's Broadland Nurseries, overhauled the old houses on the place, and built two new houses, each 150x18, one to be devoted to carnations and the other to roses.

CINCINNATI.—The 15-year old son of W. C. Cook was recently very seriously injured through the accidental discharge of a revolver in the hands of a boy companion. He is in a precarious condition and even if he should recover from the wound he will lose the sight of one of his eyes.

MINNEAPOLIS.—Trade has been very good since the holidays. Flowers have not been very plenty, but the sales have been good and the prospects for a lively spring trade are excellent. The executive committee of the Society of Minnesota Florists met in St. Paul on the 6th inst. and prepared a programme for the semi-annual meeting to be held in St. Paul March 9.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel; water space all around (front, sides and back). Write for information.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns

FIRE! FIRE! FIRE!
A. H. Hews & Co.
Wish to inform their customers that notwithstanding the recent diastrous **Fire** in their factory, through the kindness of their friends in the trade, they will be able to fill all orders which they may receive, with an excellent quality of
STANDARD FLOWER POTS.
All orders will receive prompt attention.
We are now rebuilding, and hope to be able to furnish our own **Superior Flower Pots** in a very short time.
A. H. HEWS & CO., CAMBRIDGE, MASS.

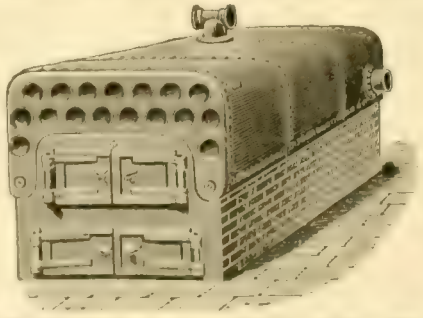
"STANDARD" FLOWER POTS.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Pottery Company
Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.
Randolph Ave. & Union St., Jersey City, N. J.

STANDARD FLOWER POTS.
Another Saving in Freight.
Not only are our pots lighter in weight and yet as strong as any other pot on the market, but our way of packing for shipping will cause you to pay for the smallest dead weight possible. These two items we claim will save you one third in freight charges. To prove this will send circulars showing number of pots in crate and weight of same, with freight rate per 100 pounds to any point.
SIPPLE, DOPFFEL & CO., Syracuse, N. Y.



SPRAY YOUR FRUIT TREES AND VINES
Wormy Fruit and Leaf Blight of Apples, Pears, Cherries, Grape and Potato Rot, Plum Curculio prevented by using EXCELSIOR SPRAYING OUTFITS.
PERFECT FRUIT ALWAYS SELLS AT GOOD PRICES. Catalogue showing all injurious insects to Fruits mailed free. Large stock of Fruit Trees, Vines, and Berry Plants at Bottom Prices. Address WM. STAHL, Quincy, Ills.

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DEVINE'S BOILER WORKS.
THE FLAT TOP TYPE
Wrought Iron Hot Water Boilers

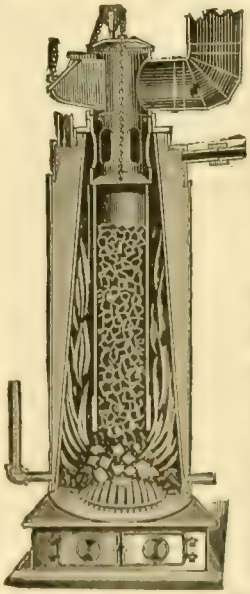


Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.
FRANK DAN BLISH, Att'y,
OFFICE, 189 STATE STREET.
WORKS, 56th & WALLACE STREETS,
CHICAGO.

STANDARD POTS.
Price list for any number.

2	-inch.	per 1000,	$3 25	5-inch.		per 100,	$ 1 88
2½	"	"	3 50	6	"	"	2 20
2½	"	"	4 00	7	"	"	3 50
3	"	"	5 00	8	"	"	5 00
3½	"	"	7 25	9	"	"	8 00
4	"	"	9 00	10	"	"	10 00

Low freight rates to all points. Terms cash, f. o. b
HILFINGER BROS., Fort Edward, N. Y.



THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured by THE S. WILKS MF'G CO. 123 S. Clinton St., CHICAGO, ILL.
SEND FOR CATALOGUE.

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MANUFACTURERS OF
FLORISTS' WIRE DESIGNS
122 W. 25TH ST. NEW YORK

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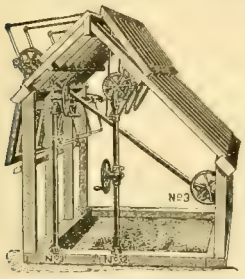
WITHOUT A RIVAL EITHER IN COST, SPEED IN OPERATING OR SECURITY IN CASE OF STORMS.

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1108 and 1110 North E Street,
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WHEN WRITING FOR ESTIMATES, PLEASE GIVE FOLLOWING DIMENSIONS:

1st. Give the number of sashes to be lifted.
2nd. Give the length and depth of sashes, (depth is down the roof.)
3rd. Give the length of house.
4th. Give the height from the ground to the comb of roof.
5th. Give the thickness and width of rafters or sash bar.

THE STANDARD Ventilating Machines



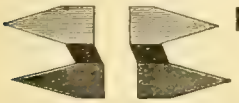
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BUFFALO, N. Y.,
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Send for Catalogue and prices.

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No More Leaky Sky Lights

Or Slipping and Breaking of Glass in Green Houses or Farmer's Sash. You can save money and glass by using the



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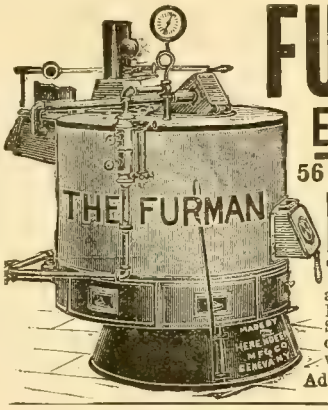
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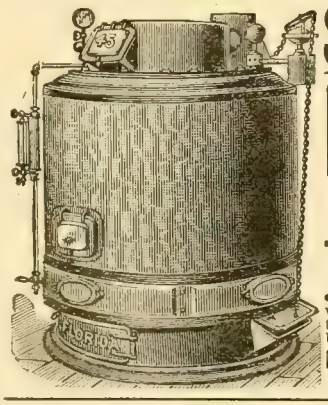
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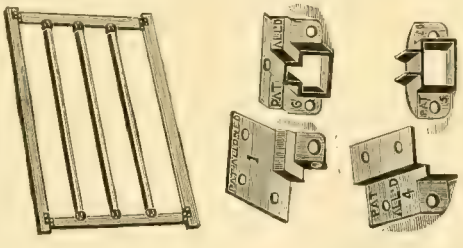
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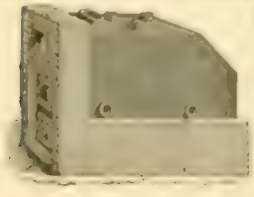
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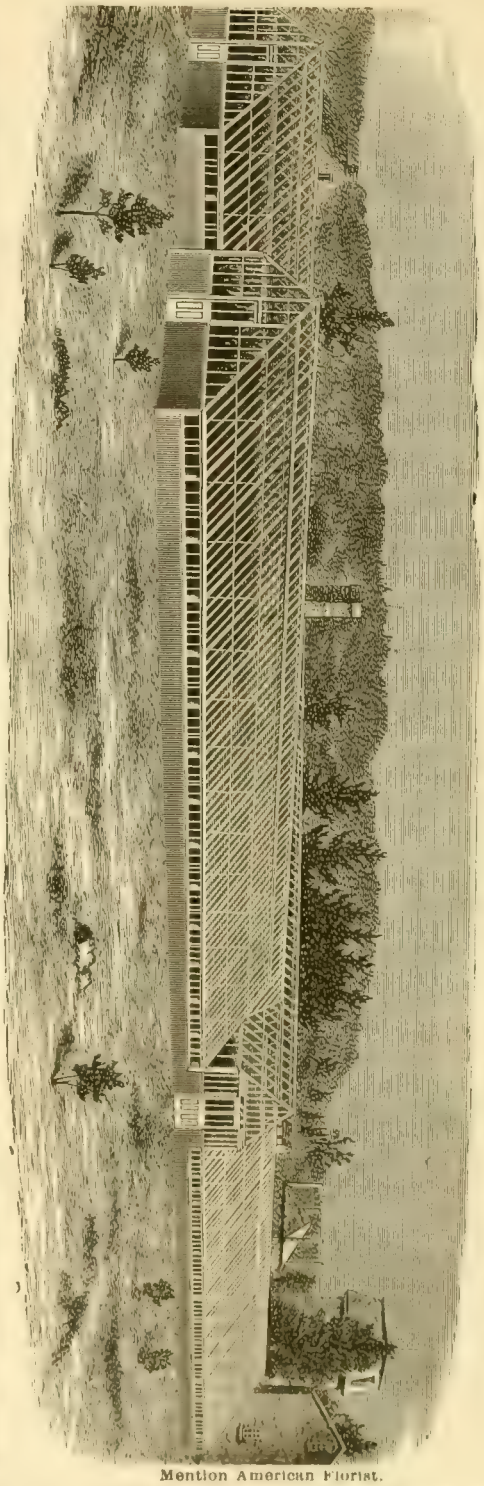
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Vol. VI. CHICAGO AND NEW YORK, MARCH 3, 1892. No. 196

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JAMES DEAN, Bay Ridge, N. Y., president; W. R. SMITH, Washington, D. C., vice-president; WM. J. STEWART, 87 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. The eighth annual meeting at Washington, D. C., August, 1892,

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THIS IS LAST CALL for advs. in our special spring number to be issued next week. If you want an announcement in this issue mail same to us at once or you will be too late. We shall mail copies of this issue to every name on our new directory list. If you have anything to sell to florists, nurserymen and seedsmen you will miss it if you fail to have an adv. in this special number.

Some of the Seed Novelties

BY WM. FALCONER.

SWEET ALYSSUM, LITTLE GEM.—Not uncommon as a plant. Neat, compact, long blooming and very desirable. But it seldom happens that these dwarf forms when raised from seed retain as even and compact a form as when perpetuated by cuttings.

ASTERS.—Again Comet leads, and now we have blue, rose, carmine and white flowered varieties; the white leading as this year's novelty. Candelabrum asters come from France and are a race of the dwarf chrysanthemum order whose flowers are arranged around the central stem candelabrum-like and somewhat after the style of the Diadem asters. New Globe Quilled aster is "3 to 4 inches and double, of good globular form" * * color "white with a blood-red center." The Mignon and Jewell asters are again offered as novelties. I grew them last year and was very well pleased with them. Among the Jewell or globe asters rose-and-white is the novelty this season.

TUBEROUS ROOTED BEGONIAS.—Both in the line of plants and seeds the tuberous rooted begonias are having a big boom this year. Avoid cheap stuff. Good begonias are not sold at a low rate, and poor begonias are wretched stock and will disappoint and alienate your customers. The best singles run from 4 to 6 inches across, and the doubles from 2 to 4 inches. A race whose blossoms are striped and flaked like a carnation is offered as a novelty. The ground color is crimson, orange or pink and the stripes yellowish white, or a suffusion of the body color. In the future we may expect to have flowers with a netted variegation, as I see A. L. Rosseel, of Belgium, has got such a strain. And varieties whose blossoms are margined by a different color from the ground one, also frilled-edged flowers are being worked up by our specialists.

BEGONIA BAUMANNI is a new tuberous rooted species from Bolivia that is expected to revolutionize the whole set of tuberous rooted garden varieties by imparting to them its delicious fragrance. Our American specialists have already got it and are working it for dear life hybridizing their stock. It has large, showy, rose colored flowers and forms unusually big tubers, but so far it hasn't displayed the remarkable sturdiness we hoped to find in it.

BEGONIA SEMPERFLORENS atropurpurea also named Vernon.—We all appreciate B. semperflorens rosea as one of the best of flowering begonias either for the greenhouse or flower garden; Vernon is a variety of it with its every good quality. It has brilliant orange-carmine flowers and reddish tinted foliage. Blooms freely the first year from seed.

BEGONIA CREDNERI.—A hybrid between Begonia Scharffiana and B. metallica, and a better blooming plant than metallica. The flowers are white on the upper surface with fine red filaments on the outside and are borne in large umbrella-like trusses that stand well above the foliage.

BROWALLIA LINNEANA.—An annual from the Andes. After the fashion of B. elata, but of dwarf, compact habit, and quite floriferous, flowers pale blue with white eye.

CALENDULA, QUEEN OF TRIANON.—A pot marigold with canary yellow flowers and dark maroon center.

CALAMPELIS SCABER ROSEA.—The typical plant is a little bignonia vine from Chili with orange red flowers in drooping racemes. The blossoms of this variety are of a rosy salmon color.

CAMPANULA CALYCANTHEMA, STRIPED.—A cup and saucer bell flower of a pale blue color streaked and speckled with dark purple. Good as a novelty. But for beauty don't forget the white, rose and mauve selfs, and don't sow them before next June. Winter them in a cold frame.

CALCEOLARIA VESUVIUS.—A selection of herbaceous calceolaria with large "intense, deep blood scarlet flowers." While speaking of calceolarias I may say: Last year I had two plants of the finest yellow herbaceous calceolaria I ever saw; I was delighted and kept them for seed. But, while my other selections ripened seed freely, these yellows didn't ripen a pod.

CANNA, CROZY'S STRAIN.—We are no doubt on the verge of a deluge of these cannas, for they ripen seed abundantly and seedlings bloom the first year. Madame Crozy and Star of '91 are regarded as the finest varieties yet upon the market; now both of these varieties are capital seeders and their progeny in fullness and beauty take after their parents. I have sown a number of seeds of both of my own saving, and another florist on Long Island has sown a good many hundreds of his saving, and all the rest the country to hear from. Three years from now there will be no scarcity of fine cannas in the way of crimsons and scarlets anyway. But from this on don't let us have anything poorer than Madame Crozy, we can afford to be so select.

CARNATION MARGUERITE.—This is still being pushed with energy. One of the leading distinctions between the Marguerite and other summer carnations is its compact habit; instead of heeling over and flattening on the ground as many of them do, it has an upright tendency like our winter bloomers. But florists have still further succeeded in dwarfing it. These are pretty forms but need selection to make them even. The florists have also separated the colors. Pure white is offered as a novelty. These carnations grow very readily from seed, bloom freely

the first year and ripen lots of seed. As a flowering plant I fear they will not avail our florists very much, but for seeds or for amateurs' use they are quite desirable. They are no hardier with me than Portia, and while plants that I lifted and potted in fall have bloomed freely in the greenhouse in winter, their flowers could not compare with those of our perpetuals. Raised from seed in fall, wintered in a cold frame and planted out in spring they are said to bloom abundantly all summer.

CYCLOPS PINKS is the name now given to a race of new continuous blooming hardy garden pinks that were sent out three years ago under the name of Dianthus plumarius semperflorens. They are a cross obtained by Alegatiere of France between the hardy garden pink and the perpetual carnation. The flowers of our plants ranged in color from purple to rose and pink with a crimson eye, and had quite a carnation style of blooming, but all were single. The plants were healthy, however, bloomed all summer and under a pine tree branch have survived our winters. Now I find double flowered varieties of white and other colors advertised. I am favorably impressed with the behavior of these pinks.

GUILLAND PINKS.—Said to be a new race of perpetual pinks bearing fine double flowers of various colors including yellow, to bloom the first year from seed and be better than the Marguerite carnations. I have not yet seen them in bloom. But we have young plants growing for trial this year.

CHRYSANTHEMUMS, double flowering forms of the annual carinatum. They come to us from Europe as loudly extolled as they were a year ago. But this annual in my opinion is not good enough for us. It grows well, flowers well and the blossoms are double, but there is a marigold weediness about it that our folks don't like. I had a fine lot of it last year, but it wasn't asked for once, a fair indication of how much it was appreciated.

CLEMATIS DAVIDIANA is offered in seed. Nothing new about it as a plant, however. It is usually propagated by division of the root. A few years ago V. H. Hallock & Son raised an immense lot of it from seed, but as my old plants had never ripened seed I was skeptical about theirs and, in fact, wasn't convinced till I saw them bloom. But they were true to name. So you see the seeds will grow.

CLEMATIS PANICULATA, the autumn-blooming Japanese vine, is again offered in seed. It is worth having. But clematis seeds are usually slow to germinate, taking several months or a year to come up. I raised my plants of C. paniculata from seed some years ago.

CANDYTUFT.—There are a few new names and maybe new varieties. My candytuft trials were not satisfactory last year on account of flea beetles that ate them up, and a leaf disease not unlike mignonette disease that "melted" the foliage. But I'm at it again.

VICTORIA CORNFLOWER or Centaurea cyanus var. nana compacta is being pushed again. Sow it early and try it as a pot plant. In its way it is a pretty little plant, although not striking. We are promised a better strain of double cornflowers than we had before, and surely we need it.

COCKSCOMBS.—In the line of "comb" varieties the Glasgow strain is, I believe, as good as any. The only new thing I note is in the way of a brilliant crimson flowered plumose form with bronzy purple foliage and extra vigorous habit. If I mistake not this variety is catalogued under two names, to wit, "Celosia pyramidalis Thompsoni" and "New Plumed Cockscomb Triomphe d'Exposition." Anyway the seeds of both are good, mine came up very freely. It is well to sow these plumose cockscombs just now for summer use, but sow again in May if you want to have some splendid flowers from August till October.

DWARF TOM THUMB DAHLIAS are offered in seeds and plants. Now here is a striking novelty and the only reason why they aren't offered more generally is because there wasn't enough stock to go round. They are a new race of Lilliputian build, 12 to 15 inches high, broad, bushy and free blooming. They were raised by Mr. T. W. Girdlestone, the secretary of the National Dahlia Society of England, and grown and sent out by Messrs. J. Cheal & Sons, of Crawley, England. There is quite a variety of color among them in blush, scarlet and crimson shades. From seeds we can not reasonably expect such evenness in dwarfness as we have from plants propagated from cuttings, and we can not look for many good doubles. But as all our ordinary dahlias do, if sown early, they bloom the first year from seed.

STRIPED FLOWERED and banded single dahlias are also offered. Both are of a dwarfish strain. Of the first the groundwork of the flowers is white or yellow and the stripes and splashes of other colors. The other called hybrida marginata has white flowers margined with yellow, rose, purple, scarlet or maroon. Both bloom from seed the first year.

EUCALYPTUS CITRIODORA.—This is not a new plant nor new in seed lists, but I do not remember to have seen it offered in this country before. It is an Australian tree of moderately fast growth, easily raised from seed and one of the most delightful plants we can grow. Its evergreen oblong lanceolate leaves are scented exactly like the lemon verbena (Aloysia) and quite as powerful. It is not hardy, but is a fine greenhouse plant. Its assured place with us, however, is planted out in summer with other mixed or fine leaved plants for foliage effect. This is what we grow E. globulus for, and we raise a young lot every year from seed for this purpose. I got citriodora last year; it does not grow as rankly as globulus.

EMMENANTHE PENDULIFLORA, or as our seedsmen call it, California Golden Bells, is a pretty little annual 9 to 12 inches high, with loose panicled racemes of nodding cream yellow flowers and pinnatifid leaves. Grows wild in open ground about San Diego.

GAILLARDIA LORENZIANA PERFECTION.—A full globular-headed form of the "double" G. picta. I have had them just as good as Lorenz's picture shows it to be. Capital annuals, long lasting and fine for cutting, and like French marigolds or globe amaranths they do very well in hot sunny places and sandy land, but, like them too, proportionately better in good ground.

Fern Notes.

Seedling ferns for this season's crop should now be coming up nicely in order to admit of potting off in early summer, and the spells of dull weather that may be experienced at this season make it a somewhat critical period for the seedlings, for if they are not carefully aired and watered at such times fungus will appear and whole pans of seedlings will soon be destroyed. It is at such times that the wisdom of using pans or pots of moderate size becomes apparent, for when the seedlings begin to damp off it is very difficult to stop the disease before the entire contents of the pan are destroyed.

One of the easiest methods of keeping the seed pans moist is arranged by leaving a space of about one inch between the rows of pans, so that water may be poured between them, thus keeping them moist without any necessity for watering overhead. This is a much easier plan than that of dipping the pans, and the space lost in the operation is not a great amount, beside being compensated for in the saving of labor.

It seems hardly necessary to say that seedling ferns should be protected from strong sunlight, such exposure being in no way beneficial to them, and the same rule will apply with equal force at the time the seedlings are freshly potted, for until they begin to root afresh in the new soil they are easily injured by too much sunshine.

It is also well to remember that the potting of the stock plants or exhibition specimens as the case may be, should not be too long deferred, for many species start into new growth quite early in the season, and late potting may do more harm than good.

The most popular ferns for florists' use are undoubtedly those of dwarf growth and compact habit, and there is consequently but little demand for species that produce long, straggling fronds. Among the latter may be mentioned such as Pteris tremula, P. quadriaurita, and in some cities also P. argyræa, all of these having in former years taken a more or less prominent place among trade ferns.

Some of the smaller growing pteris, for instance those of the serrulata type and also the cretica section, continue in favor on account of their comparative hardiness, free growth and easy reproduction. Onychium Japonicum, Davallia tenuifolia stricta, Adiantum pubescens, and of course the long favored A. cuneatum continue to be included in the regular stock, though the latter has fallen away in public esteem to a greater or less extent in some localities, probably from the fact having been discovered by some of the buyers of ferns that there are some other species that last longer in the dry atmosphere of a dwelling.

It seems quite possible that a certain amount of business could be developed in some of the larger flower markets of the country by growing a little more assortment of ferns for cutting, this branch having been confined in most instances to one species only, namely, Adiantum cuneatum.

There are also a very few growers handling A. Farleyense for this purpose, but outside of these two species there are comparatively few ferns grown for cutting, while the fact remains that nice bunches of assorted fronds form a useful addition to the stock of green stuff in a retail store.

Several other adiantums may be included among those available for this purpose, A. Wiegandii being a very good keeper when cut, as are also A. tenerum, A. formosum, A. hispidulum and A. trapeziforme.

Some of the pteris produce valuable fronds for cutting also, in fact P. cretica is about the most lasting frond I know of, while the smaller davallias, such as D. decora, D. affine, D. dissecta and D. tenui-



HOUSE OF CYPRIPEDIUM INSIGNE AT MR. W. S. KIMBALL'S, ROCHESTER, N. Y.

folia stricta may also be considered among the useful ones.

Of the less common species the gleichenias are excellent in cut flower arrangements, their fronds being quite hard, of elegant habit and lasting well, but of course their comparative rarity precludes their use to any great extent at present.

But whatever species may be grown for this purpose should be grown as hard as possible, by means of plenty of air and light, for soft sappy fronds will not stand after cutting, no matter what their species may be. W. H. TAPLIN.

House of Cypripedium Insigne.

The accompanying engraving is from a house of Cypripedium insigne at Mr. W. S. Kimball's, Rochester, N. Y. The center bench shown is 8 by 50 feet and the plants stand as they were grown through the summer.

Regarding these plants Mr. George Savage, who is in charge of Mr. Kimball's establishment, writes:

"Until last May they were large specimen plants, but about that time we divided them up into small pieces about as large as would conveniently go into a 6 or 7-inch pot, so I expect them to flower more profusely next winter, being more thoroughly established then than last winter, being divided rather too late in the season. We find they flower much freer in small pots than in large ones. There are about 500 plants and they produced about 2,500 flowers. They made a grand sight which everyone that saw them could not help admire.

"They are potted in good peat with ample drainage, surfaced with live sphagnum moss, slightly shaded through the summer months and abundantly watered all the year through, more especially through the hot season of the year. A temperature of 55° suits them at night in the winter months, with lots of air on night and day all through the summer and autumn until the outside temperature falls to about 45°, then they are best kept closed up, that is, if one wishes to keep their plants healthy and growing vigorously right along.

"C. insigne has become very popular lately, and being as easy to grow as a lettuce, will be grown by most florists."

Growing Bedding Plants in Large Quantities.

BY FRED KANST.

[*Read before the Chicago Florist Club Feb. 25.*]

I give a brief description of the methods employed for growing the plants used in the annual decoration of the South Parks.

Geranium cuttings are taken September 1, potted into 2-inch pots and put in the greenhouse, and without any particular care they will make roots. Then they are grown on until nice little plants, or up to about January 1. The houses are then kept cool—a little above freezing point is sufficient. The object is now to keep them from growing till as late in the spring as possible, so that they will take up but little space, which is the main point. The reason they are handled in this way is that in a growing state they would require double the amount of room that they would in a dormant condition. In fact if not growing they can be stored away in a cool place under the bench and taken out when wanted and made good bedding plants in two or three weeks' time.

Alternanthera cuttings are made in August, three plants in a 2-inch pot, and are put in the greenhouse when the cool weather sets in. They are then placed on the bench in pots or planted out. The latter way we have adopted because they can be planted in stripes or blocks of different colors so they make a pleasing effect all winter as well as serving for stock plants. In a house 12 feet wide and 100 feet long we put between 9,000 and 10,000 pots. By dividing the old plants about April 1 we obtain 40,000,

ready by May 15, and so that they fill a 2-inch pot, which is about the size and time we will want them.

We grow 50,000 echeverias. They are taken up in the fall and all roots cut off, then re-rooted in benches or boxes with light soil and sand on top, kept dry for about a week or ten days. By this time the stumps will be calloused sufficient to give them water. In this way they will make strong roots which takes about 30 days. Then they are kept cool—just above freezing is best, as they will grow fast enough in the spring so that they will be ready for planting time. If handled in this way the echeverias make little work, are the cheapest plants grown and still a valuable one for bedding.

Coleus and achyranthes cuttings are taken in the fall and rooted for stock. Only a few of each variety is necessary. The first of February cuttings are taken from these plants and about one-fifth the whole number wanted is then rooted. Then the fall stock plants are thrown out for fear that there will be a crop of mealy bugs coming into bloom and scatter their pollen among the young plants and thereby multiply their kind. You will all agree that they are good enough at any time to throw away without cross-breeding to get thoroughbreds. From the one-fifth number of plants on hand cuttings are taken about forty days before the bedding out time. We can obtain five or six cuttings from each plant, which makes the number wanted and all of the same age and size.

Such plants as lobelia, alyssum, ageratum, thyme, etc., we house enough stock plants in the fall so that we will have all the cuttings needed in two crops. From the month of February to about the 10th of March is the best time. Then the old plants are thrown out and the young ones take their places. We root all cuttings slow—that is by keeping them as cool as they can possibly stand it. Cuttings rooted fast in a high temperature will require a warm house to grow in and will grow too fast for bedding purposes, as well as taking up too much room. If their growth be checked afterward by keeping them cool it will stunt them so that when wanted they will not generally grow well. On the other hand with plants grown cool and dry all that is required to make them grow is to give them water and heat.

The above way has been very successful with us and should any gardener have been unsucessful with other methods I would advise him to try this one, and feel sure that he would have success.

In the discussion that followed the reading of the essay Mr. John Thorpe emphasized the value of the point made regarding the throwing out of the old coleus in order to guard against the growth and spread of mealy bug.

The Poinsettia.

BY H. A. STOLLERY.

[Read before the New Jersey Social Florist Club Feb. 11.]

MR. CHAIRMAN AND GENTLEMEN: It gives me much pleasure to be here this evening and read this paper at your request. I was rather reluctant to undertake the task at first, but finally concluded that I might be able to learn something myself, so in a short time I will give you my experience on the subject that I take—"The Poinsettia." I think you will all agree to its being one of the most beautiful decorative plants under cultivation, coming as it does through the winter months and forming such a brilliant scarlet head in contrast with the green leaves underneath. I have not seen it grown very extensively in this country, for reasons I do not know, but probably some one present will be able to inform me.

Although it may seem a strange place to begin, I have thought it best to start on the old plants, as a great deal of the success depends on the cuttings. These, when the bracts are off, can be cut down to two or three joints and put underneath the stage, in a temperature of about 50° and very little water afforded them. At the end of April or May more water must be given them and brought out to the light to encourage strong shoots. When three to four inches long take off and put singly into small pots filled with sand, plunging them into bottom heat. If air can be excluded during the day by placing glass over the top they will root quicker. The preference for pots is, they can be handled better with less injury to the roots.

The principal points to study in getting them to perfection are, first, let there be root room; second, keep them near the glass, and dwarf plants will be the result (the art in growing them) with leaves to the pot. A low, small house is most suitable where the plants can stand on ashes, occasionally throwing water down, and have a moist atmosphere. The sun being very hot in summer, they need to be shaded well. I have seen them grown outside in this country but with no success, as they lose their leaves all the time. The soil I prefer is two parts good turfy loam and one part coarse sand. Along in the fall give weak cow manure, let the temperature be about 65°, and around Christmas we shall be rewarded for our trouble. I remember once seeing a house staged one row above the other with plants from one to two and a half feet high, and the bracts were from 12 to 22 inches across. A very effective arrangement, I think, is a group of poinsettias intermixed with ferns and calanthes.

As my paper, Mr. Chairman, is very short upon the above subject, I think it will not be out of place to say a little about calanthes; so, with your attention, gentlemen, I will endeavor to give my experience regarding these.

The calanthes are, no doubt, a very useful orchid, coming in with their long spikes when most flowers are scarce, and lasting in bloom such a long time considering the delicateness of the flower. The varieties I think best are Veitchii, vestita oculata gigantea, rubro-oculata, igneo oculata, Regnierii and Turnerii. The three former are, no doubt, the best for market—gigantea having especially fine arched spikes, with the advantage over most of them, as the leaves keep green during the flowering season.

The bulbs will commence rooting the beginning of March. Pot up before getting out far, as they break very easily. I prefer potting into small pots, then pot on when rooted enough. The general plan is to put three bulbs in the pot they are to bloom in, and I have taken especial notice of this, the roots will run around all over the top and do not like to go down, and the result is that when they do go down, the soil has become sour. By potting into small ones and repotting the roots can be buried into fresh soil. I like to fill the pots nearly one-third full of crocks; the soil I think best is two parts turfy loam, one of peat and moss and one of sand. One good watering when potting up, and after that a light syringing every day is all that is necessary for some time. A temperature of 65° to 70° will suit them, and when in full growth weak manure water two or three times a week will not hurt them.

As the bulbs mature withold water gradually (with the exception of oculata gigantea). A very good plan to make the pot look respectable when the leaves are gone is to plant a piece or two of Selagenella denticulata into each pot about six weeks before blooming, and by that time the pot will be covered. After flowering shake them out of pot and put the new bulbs in boxes into a moist place. I prefer this as they keep very plump, which helps them to throw out much stronger growths. The old bulbs do not amount to much so it is just as well to throw them away.

I would like to add that when poinsettias are required for cutting purposes, by cutting them a day before being used will give them time to bleed.

I do not suppose these methods will meet the approval of all present, but I hope a discussion will follow and that it will prove beneficial to most of us, as we all live to learn.

The Color Question.

The article signed "L. S." on page 150 contains some pertinent and useful suggestions, and some inconsistencies which I wish to point out for the good of the cause and not in a hypercritical spirit. At the same time criticism is of the greatest benefit in keeping us in the right path and should not be received with indignation.

The suggestion of L. S. that scarlet be taken as pure red, or basic red, is at once an error, for scarlet is a yellowish red, closely allied to orange, but nearer to red, which is a color by itself. Scarlet mingled with blue will give the shade of crimson (so-called) seen in the chrysanthemum Cullingfordii, which is a good way from true crimson and much nearer to the maroons and purple-browns. It is quite impossible to produce crimson, carmine or magenta, so long as the least particle of yellow enters the mixture, and the yellow of scarlet will effectually prevent the success of the experiment suggested by L. S.

Again he says "blue is no longer a blue when red is with it," and "when you say tropæolum yellow who is going to know what shade you mean." If there is only one *blue* color there must also be only one *yellow* color. There cannot be shades of yellow and not shades of blue. I contend that there are many shades of both, but "tropæolum yellow" is a distinct and unmixed color and the creamy yellows, lemon, salmon and saffron tints are only modifications by mixture of the one glorious yellow of the tropæolums. The name may not be a happy one. It was merely a suggestion.

If L. S. will pluck a pure yellow nasturtium flower and carry it about his garden and compare it with the marigolds he will find that it has a color *sui generis*.

I heartily agree with him that the dry goods should be let alone until we have studied nature's colors. The burning question is—how shall we do this?

My own apparatus is made of a series of discs colored with the various pigments used by artists. These are slit from center to circumference so that two or more can be placed together to show any desired comparative surface. The discs are then placed upon a spindle and revolved with such rapidity that the colored rays of light reflected from each are intermingled into one homogeneous hue before hey reach the eye. This machine enables



VIEW IN LINCOLN PARK, CHICAGO.

one to mingle color and not paint and there will be many revelations to a novice that will be surprising. One striking example is the mingling of yellow and blue, which in pigments would result in a brilliant grass green, and on the discs prove to blend into pure white or light gray, according to the proportion exposed of each, not even a suggestion of green in the color of the revolving discs.

L. S. speaks of the "primary" colors. Which are these? The science of years ago said "red, yellow and blue." But to-day these are disputed by our eminent color students. By no mingling of colors can you make green, therefore it seems probable that green is a primary color. Yellow and green colors mingled in proper proportions give white, and if green is a primary color yellow must represent a mingling of the other primary colors, and which are they and how many?

The fact is that we know less about color than about electricity, which is as yet in its infancy.

Mr. Alexander H. Wyant, the famous landscape painter and the subtlest colorist probably in this country, while walking through my greenhouses a short time ago gave me as his opinion that the school of color was to be found among the flowers. If this be true, why not the names also? RICHARD FERRIS.

The question of color which is now before the readers of the AMERICAN FLORIST is mainly one of nomenclature. The character of a color once established needs only the addition of a name, and then the knowledge of the color is complete. But a confusion of names is a confusion of ideas and impressions conveyed, and we should be very careful that we do not say color when we mean paint.

It seems to me, therefore, that when we talk about color we should make a very sharp distinction between it and pigment. The artist's "colors" are all pigments, and the coloring matter in the petal of a flower is also pigment. The spectrum or prismatic color is color *in genesis*. Therefore, if we choose to term artists' pigments colors (which it is perfectly right for us to do, provided we distinguish between them and prismatic colors) we must not confuse the paint box with the spectrum. This is just what I fear Mr. Ferris has done, as well as "L. S.," to whose suggestions he takes some exceptions. There is only one way to understand color *as we see it*, and that is through familiarity with pigment, whether it be in the paint box or the flower petal. The prismatic colors are a revelation of jewel-like brilliancy; they are like fire; we learn from them the quality and appearance of pure red, yellow, green and blue—and little else. Any one who possesses a prism may learn this much, and then he can continue his studies afterward with flower or paint box to greater advantage.

The search for the pure yellow, red and blue colored flower becomes interesting as the sensitiveness to color shows itself in varying proportions in different individuals. But what is one to do when his sensitiveness is thrown quite "off the track" by wrong terms applied to pigments, and by confusing experiments with the pigments themselves? There is no scarlet and blue in my paint box, which mixed will give the color of the Cullingfordii chrysanthemum. Yet I know that if these colors of the prism could be drawn together the carbuncle tones of the Cullingfordii would be there.

Blue is of course blue without red or yellow in it, but what shall we decide upon as a standard? The pure prismatic blue is hard to put your finger on. It is there, though, however difficult it is to define. In nature and in the paint box there are blues innumerable, some of which are reddish and others greenish—still they are *blues* without shadow of doubt.

Yellow, whether it is that of the tropæolum or the nasturtium, is a color found pure enough in nature or the paint box. It only requires the discriminating eye to find it free from red or green.

To study nature's colors means that in the end we may be able to detect the zero point (for it is a very fine one) where yellow exists untainted with either red on the one side or green on the other. I should think that such delicate discrimination could only be attained through practical experience, and practical experience means a long course of comparative

examination. It is only through comparison that we know what is best in all things. I do not think that Mr. Ferris' apparatus is a good medium for the attainment of knowledge about color. I think that primroses, nasturtiums, marigolds, sunflowers and eschscholtzias will teach us more about yellows; roses and poppies more about reds; and violets, gentians and forget-me-nots more about blues; and further, the worst of it all is Mr. Ferris gets pigments and colors confused, because he says "this machine enables one to mingle colors and not paint." He is quite mistaken, because, if he will allow me to make the suggestion, a disk of well distributed prismatically arranged pigments whirled around by his machine will not show the same result as a complete blending of the prismatic colors. In one case we do *not* see a disk of white and in the other case we *do* see white light.

If this machine mingles *color* and not paint then the results of experiments with it should be parallel with those made with the prism. I therefore maintain that the machine mingles pigment, particularly as it is *pigment* which is on the disk. That the mixing of these same pigments on the palette produces a different result is a matter which may be referred principally to the constituents of the pigments themselves.

I must also disagree with Mr. Ferris' statement about the "brilliant grass green." The two colors I would use to produce such a green (antwerp blue and gamboge) whirled around on the machine produce a beautiful *very green sage green*. That Mr. Ferris' experiment differs from mine is, I believe, entirely due to the fact that his pigments were not so pure in tone as mine. That I need in my studio the purest powder (unmixed) colors, besides the standard water colors in pans or tubes, is proof of the fact that colors differ greatly in purity. That an artist uses the most subtle discrimination in the selection of his colors (pigments) to produce certain color tones is another fact which may account for the difference between Mr. Ferris's experiment and my own; not that I would insinuate that the artist *alone* can be discriminating, but I point to the fact of his experience and quickened perceptions which enable him to arrive quickly at accurate conclusions. In a word, I can produce by the machine's assistance all the grays Mr. Ferris speaks of, a number of greens sufficiently well pronounced in tone, and I *cannot* produce pure white! In the face of all these facts I must reiterate the statement that the best study of color is aside from the consideration of the prism and I will add that the *machine* is confusing in the study of color by pigments.

To establish by name a red, yellow or blue, with the assistance of pigment in the flower petal or artist's paint box is not a difficult matter, but to get wound up in the intricate meshes of the scientist's analysis of "basic color" is to get caught in a web of theories which will not assist us in the decision that the tropæolum's color is a pure yellow. But if we have beside us a patch of artist's yellow which has been exactly matched with the prismatic yellow (i. e., the zero point between the red and green) then we may put the particular tropæolum flower in question to the test. We may try the buttercup, the forsythia, the nasturtium, the marigold and the eschscholtzia by as perfect a material standard yellow as we may hope for.

In conclusion we may be sure that color *in genesis* is subject to the same principles and conditions as color in pigments, and that the great distinguishing difference is the absolute purity of the former and the compromising, chemical impurities of the latter. What then does it signify whether green is a primary color or not, or that the emerald green in my paint box is a *unique* green?

F. SCHUYLER MATHEWS.



The Season.

Almost all through the eastern section of the country there is a general complaint that roses are not producing as good as usual, and the causes advanced are very varied, some of which may be right, and, in a certain measure, many of the theories mentioned may have something to do with it. On the other hand we may be all wrong in our views of the causes. One says the extreme warm weather in September and October is largely the cause of the trouble; another, want of sunshine during November and December, while another says it is because we have had scarcely any snow. With many other theories of ε like nature on hand it seems very difficult to arrive at any safe conclusion, and the more I think the matter over the more I am inclined to think that we may be all groping in the dark, or in other words, have not found the true cause, for this reason: we have had hot Septembers and Octobers before, cloudy Novembers and snowless winters, in short have had to contend with all the advanced causes before and came out somewhat better than the present season. This induces me to think that we have to search further yet for the true cause of this very general complaint, notwithstanding that one grower is positive that over-watering has been the root of the evil in his particular case. But let me be clearly understood that I do not wish to infer that each and all the causes suggested may not have some influence in the matter, in fact, I have good reason to think that they very largely affect the whole crop, yet, as I said above, I think we may have not yet struck the real cause, and until we do we must go on investigating this subject in every way possible.

In several cases that have come under my own observation I am convinced that "Club Root" has a great deal to do with our present trouble. Now the question in this case is to decide what causes "Club Root" and what can be done to remedy it. As, probably, some of your readers may not be familiar with "Club Root," particularly in roses, I will describe it as nearly as I can, and would advise all growers who have sickly plants, or plants with yellow foliage, to examine carefully the roots and see if they can find any small nodules or wart-like swellings on them, varying in shape but mostly oval, and usually about an eighth of an inch long but sometimes much more elongated. Where these are at all abundant the young roots will generally have an unhealthy appearance and will turn a dark brown color, the outer part gradually decaying, and when rubbed between the thumb and finger will easily crumble up, leaving only the main tissues of the center. Under such conditions is it any wonder the plants will not produce as many buds or as good as usual?

The cause and cure for the above I will leave for the next issue as I have already taken up too much space of this one.

J. N. MAY.

Tarrytown, N. Y.

If you should ever undertake a trip to see the F. R. Pierson Co.'s rose houses at Scarboro in moist weather get off the train at Tarrytown and invest your all, if need be, in a team to carry you over the intervening five miles. You don't know what mud is until you have attempted the walk from Scarboro station and looked down upon the small sized farm which you have laboriously carried along with you on the sole of each boot.

But it is grand rose soil and that is one consolation. After shovelling the mud from your boots and reducing your feet to normal size and weight step inside the houses and under the guidance of courteous Paul M. Pierson take a trip around and you will see abundant evidence of the fact that this mud is great stuff for the roses.

Not every rose seems to thrive, however, for Paul will tell you that La France is almost useless with him and will show you the proof in the few plants of this variety which are ekeing out a poor existence, also that Mermets have also proved very refractory. In further proof that soil is not the only requisite in rose growing (which same has already been ascertained by the ambitious growers who bought Nyack soil by the car load), he will also tell you that only two months ago these luxuriant beds of Woottons, Cusins and Meteors were so badly afflicted with the dreaded yellows that he seriously thought of closing up the houses for the season, and to show again the contrariness of rose growing and the unreliability of all prescriptions he will also tell you that he acted just exactly contrary to the doctor's orders and deluged those plants with water. Whether on account of the water remedy or in spite of it, yet it is true that at the present time no handsomer buds are going into the New York market than the roses cut from those very plants, and almost all traces of the yellows are obliterated.

American Beauty has been doing grandly; 3,000 blooms of this variety was the cut in one week recently. Blind wood is conspicuous by its absence, every shoot large or small bearing a flower.

The Wootton rose as grown here jumps at once into the first rank as a market rose. Great strong stems 18 inches or more in length, splendid foliage, blooms of bright color, high fragrance and almost as large as first quality American Beauties.

Cusins and Meteors are also in first class condition and are producing enormous crops. Mr. Pierson believes in a high temperature for the Meteor and says there is nothing so fatal to good buds on this variety as a draught of cold air. When it gets what it wants as it appears to do here, it is a tremendous grower.

These rose houses have been so often described and so much has been written about the method of heating them that a description is at present unnecessary. The propagating house appears to be remarkably successful, American Beauties rooting readily with the most trifling percentage of loss.

At the old establishment at Tarrytown which is under the more immediate supervision of Mr. F. R. Pierson, there is a

large stock of kentias, arecas and pandanuses, big and little, besides quantities of Harrisii lilies with Easter peeping out of their crowns, and enough Star and Crozy cannas to insure a small fortune to the owner at prospective prices. Mr. Pierson has just received the beautiful colored plates of Mme. Crozy Canna which are to be issued with his spring catalogue.

New York.

The florists report a good trade for the past week, although the warm spell in the first few days had a tendency to overstock the market with some varieties of flowers. The worst glut at present is on bulb stuff. Harrisii lilies are in particularly bad shape and many lots are sold as low as $4 and $5 per 100, and the sellers consider themselves fortunate to get even that. Lily of the valley is also overstocked and is being piled in by thousands. Price varies according to quality, and it must be extra fine to bring over $2 per 100, while much of it is sold as low as $1.50. Tulips are too abundant. The pink varieties sell rapidly at good figures, but scarlet is difficult to dispose of. Callas are sold for anything they will bring. Mignonette is also in the dumps on account of over-production.

Roses still hold their own in good shape. Cusin maintains its lead among the small roses bringing $10 per 100 on an average, and some extra fine specimens selling as high as $15. American Beauties, Magnas and Laings of best quality bring from $6 to $9 per dozen still, but Jacqs are too plenty and demand slow at $15 to $20 according to quality. Young Bros. are receiving some very handsome Laings grown by Christy, of Stamford, Conn. The handsomest Brides in the market are coming in from the original home of the Bride, John N. May's, at Summit.

Finer Brunners and Magnas were never seen than are being received from Julius Roehrs at present. The American Beauty will have a hard tussle to hold its own with such competitors as these are. La France as a rule is in bad form just now. A "detriment to the trade" one of the dealers says of this rose. He is not far from right, for like the little girl in the nursery rhyme, "when it is bad it is horrid."

Fortunate is the man who has a nice stock of smilax or adiantums at present. Smilax has taken a sudden upward turn and everybody wants it. Prices run from 20 to 35 cents a string according to quality. Good adiantums sell at sight for $2 per 100.

Carnations still go lively, the Grace Wilder just now being in special demand and somewhat scarce. Lilacs are badly overdone, violets fast approaching the same condition.

Butler did a fine decoration for the Columbia College Freshmen at Morello's. The entire work was done with daffodils, tulips and other spring flowers, and is said to have been one of the best arranged decorations of the season.

Alex McConnell is making preparations for a big Jewish wedding which is to take place on March 2. The ceremony will be performed under a peculiarly constructed canopy, the form of which will be strictly in keeping with the old Jewish laws. The canopy will be composed of smilax, roses and carnations. Over the folding doors will be two hearts composed of pink roses, joined by a bowknot of white carnations.

A fine piece of work was done by J. Condon at the Oxford Club House at Brooklyn on February 25. Large quantities of roses were used in the decorations, which were very lavish.

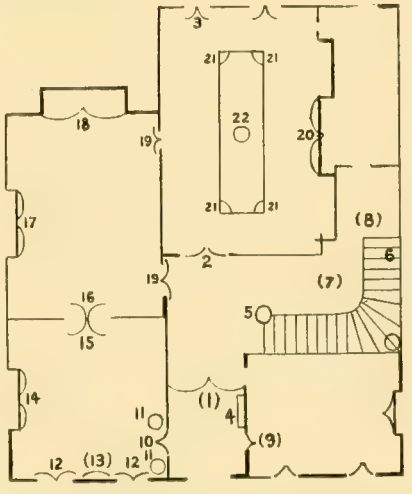
The store of the Klunder Co. on 5th avenue has been attached by Jas. Hart for an account of $940. It is claimed by friends of the company that the trouble is only temporary and Mr. Hart's action unnecessary. It has been generally understood that there was abundant capital behind the concern.

Herman Kuhn, of 896 Sixth avenue, is making merry over the addition of a boy to his family.

J. J. Heinrich, of 121 Court St., Brooklyn, has disposed of his business to A. C. Schaeffer & Co.

Washington.

Among the many decorations of private houses on the occasion of receptions and teas during the present gay season, that of the Misses Davis of Philadelphia, who temporarily occupy the spacious Lawton mansion, eclipsed anything of the kind heretofore attempted in this city. The decorator (Small), who was evidently given *carte blanche*, performed his task with an unstinted hand and yet avoided in the airy lightness of his designs and the delicate materials used that overloaded effect so often the result of elaborate decorations.



First of all the doors and portieres were all removed. On entering from the vestibule the first thing in the hallway to strike the eye was a large double curtain of Asparagus plumosus (1) caught up on either side by artistically arranged clusters of Harrisii fastened with bows of satin ribbon, while a superb specimen of Nephrolepis davalloides furcans firmly secured to the center, suspended in a cluster overhead, like fairy tassels, its graceful fronds.

Some distance beyond, at the entrance to the dining room (2) there was another and smaller curtain of A. plumosus, similarly treated, while far in the rear as seen through this vista appeared a third yet smaller curtain (3) imparting the effect of an interminable succession of archways beyond. Immediately to the right of this first curtained archway was an elegant pier glass (4) completely encased in smilax, its base richly banked in ferns. Passing through the archway to the rear the elaborately treated stairway came into view, the newel post (5) being completely covered with closely laid ivy so as to preserve its fine proportions and on it a beautifully formed vase made up of camellias, filled with a fine cluster of Beauties. The handrail was overlaid its entire length with camellias, while the banisters were completely hid from view by foliage plants. The ceilings here were overlaid with wired wild smilax, likewise the walls up to the landing where an orchestra was hid from view by a screen of laurel (6) dotted over with sprays of camellias. The area (7) at the front of the stairway leading to the cloak room (8) was lined with palms, pandanus and azaleas. The entrance to the library (9) on the right entering from the vestibule was likewise curtained with A. plumosus gathered up on either side over clusters of Harrisii tied with satin bows. In the library where lemon punch was served from a huge block of crystal ice upon a salver set in ferns, the two windows and mirror were liberally draped with smilax, the hearth filled with latanias and ferns and the mantel banked with maidenhair ferns and hyacinths, while palms graced each corner.

The entrance to the first reception room (10) on the the left was also curtained with A. plumosus. Here it was that the decorator seemed to be most lavish in his art. Within on either side of the entrance upon richly gilt pedestals (11) in golden wicker work stood superb specimen plants of white lilacs in full bloom, their delicate odor gratefully greeting each guest upon entering. The heavy damask curtains covering the large front windows (12) were made to serve as a base for closely laid strands of A. plumosus studded all over and fringed with sprays of valley. The large mirror between the windows (13) was partially covered by a single curtain of A. tenuissimus carried diagonally across and looped up with a satin bow over a cluster of White La France. A basket of select cattleyas, principally Warneri, was suspended from the cornice of the mirror and hung directly over a beautiful broad low golden vase full of long sprayed valley on a gilt tripod of exquisite workmanship.

The hearth was filled in with foliage plants, the mantel banked in ferns and pink carnations, while the large mirror (14) was likewise curtained with A. plumosus dotted over with sprays of valley. Vases of Wattevilles, Mermets and Duchess were placed on stands in every niche, while the tallest of Areca lutescens with their base backed in ferns occupied the corners. The communicating archway (15) was doubly curtained with A. plumosus, in the front room dotted over and fringed with sprays of La France and looped up at either end with satin bows over clusters of the same. In the rear room the corresponding curtain (16) was treated in the same manner with Brides. Here too the large mirrors (17) and mantel were made to correspond in white with the one in the front room, where the prevailing color was pink. The doorways (19) were here also curtained like those already mentioned, while the alcove (18) in the rear was converted into a veritable fairy bower of azaleas and foliage, partially hidden from view by looped curtains of A. plumosus studded over with Perles.

Entering the dining room to the right another large banked mantel and curtained mirror (20) came to view, treated the same as in the other rooms, as were also the windows. The four corners (21) of the refreshment table were treated in a novel manner, being covered with mossed wire shields decked with loose sprays of La France dangling down, yet well secured, giving these corners the appearance of a shower of roses falling down over them to the floor. The floral centerpiece (22) of the table consisted of an immense bowl shaped vase filled with the

most luxuriant overhanging adiantums, from the center of which rose a great cluster of the grandest specimens of American Beauty which it has been my privilege to see, fitly holding aloft their fragrant heads to meet the corresponding gems of the their kind that hung down in graceful garlands from the great crystal chandelier above enveloped in the daintiest of A. plumosus. Z.

At the annual meeting of the Florists' Club of Washington last Tuesday evening officers for the ensuing year were elected as follows: A. B. Garden, Pres.; W. Gude, Vice-Pres.; G. W. Oliver, Sec'y; A. Gude, Treas.; E. Cadmus, Cor. Sec'y; Auditing Committee, W. H. King, E. Cadmus, W. S. Clark.

After the business meeting the club sat down to the annual banquet, which was a most enjoyable affair.

Boston.

The cut flower trade is booming this week. The retail florists are to be found right behind their counters full of business and have no time for visiting their friends or indulging in any other recreation at present. The rush is most welcome, but if it would only last!

Roses of all kinds are scarce. There are nowhere near enough to fill the demand. The same is true of carnations. The call for carnations is unprecedented. It comes from every direction and includes all colors, although as a rule white takes the lead. And there is some fine stock coming in. The quality of the carnations this season is far ahead of any former year. Bulbous stuff is plenty. There is a pretty good sale, however, for all of it excepting the various single narcissi, which nobody seems to want at any price. Harrisi lilies are also too plenty and a good many that are brought in bear the marks of long keeping. Violets are also overstocked. They average well as to quality, but they seem to hang fire, and the street peddlers, who are unable to handle roses and carnations at present rates, find abundant solace in the condition of the violet supply and one sees violets, violets everywhere, along the curb stone, on the street corners and on the dresses of the shoppers.

The single violet which Mr. C. M. Atkinson grows he describes as very sturdy and almost proof against disease. He asserts that it throws from ten to fifteen blooms to one of Marie Louise. From twelve sashes he can pick five thousand a day. It is very fragrant and the color is a fine, deep purple.

On February 20 Jas. Comley exhibited at Horticultural Hall very handsome plants in full flower of Eriostemon myoporoides and E. salicifolius. C. J. Dawson showed Daphne cneorum and other hardy shrubs forced, and Jackson Dawson had exceedingly fine specimens of Andromeda speciosa and Exochorda grandiflora, both of which are admirably adapted for forcing and can be brought into flower in from four to six weeks' time.

Among the notable visitors to Boston during the past week were Mr. A. Ingram, representing Hugh Low & Son; Mr. A. Dimmock, representing Sander & Co.; and Mr. C. B. Weathered of New York. Mr. Dimmock among other novelties in orchids shows a new break in cypripediums, which has been named C. Chamberlainii. This cypripedium, which was collected about two months ago "somewhere in the eastern hemisphere," bears a most beautiful flower and is totally distinct from any cypripedium heretofore introduced. The lip is profusely dotted with magenta purple, petals twisted, white with rows of dark purple spots, dorsal sepal broad, yellowish white, green shaded, with several lines of dark purple markings. The most remarkable peculiarity about it is the number of flowers on a spike, which often number as many as thirty. The spike is erect and the flowers branch alternately from peculiar looking bracts on both sides of the stem. The foliage is very massive, leaves measuring 15 inches in length and 3 inches in width.

The Boston Immortelle Letter Co. has added some new machinery whereby they now strike out at one stroke of the die a whole inscription in script letters. No one would imagine that enough letters were used in the florist business to support such an establishment as this is. The work room is 80 feet long and 8 to 10 employes are kept busy all the time. The machinery is all driven by an electric motor. The process is quite interesting and novel. The letters are stamped out with hardened steel dies from heavy card board, which after being soaked in shellac to harden them are then treated to an application of glue, after which they are ready to receive their coating of the prepared immortelle powder. The letters are then put up in neat envelopes and boxed. The machinery cost in the neighborhood of $6,000. One man can strike out 4,000 script words a day and the dies used for the block letters are capable of turning out 48,000 letters per day.

Mr. L. J. Doogue, son of Mr. Wm. Doogue, city forester, has opened a florist store on Beacon street, near Charles.

The Gardeners' and Florists' Club meeting last Tuesday evening was well attended although a stormy evening. President Morton being absent, Vice-President Long presided. The committee on dinner reported they had arranged for same at United States Hotel the evening of Thursday, March 31.

Thos. H. Flinn's essay on the nursery business advocated more interest and intercourse between florists and nurserymen. That we should learn a lesson from European nurseries. Our most successful florists and growers are graduates of European nurseries and the nursery was their first school. He recommended that local florists should seek to supply local demand for small nursery stock and not leave customers to be victimized by unscrupulous tree agents with misleading pictures. He detailed the progress of the nursery business during the past 70 years. The first nurseries in New England were established in 1816 on a very small scale. And up to 1850 the nurseries were mostly near the seaboard. Since then there has been rapid progress in the Central and Western States. We have only recently begun to realize the value of decorative shrubbery about our homes. We were first disappointed because we relied on imported stuff and we find we must propagate, grow and test on our own grounds. The people are beginning to understand the value of home grown stock, and local nurseries foster local trade. There is an increasing demand for ornamental trees and shrubs for parks and large estates. Examples like Mr. Hunnewell's and the Arnold Arboretum are more valuable than all catalogues published. He emphasized the value of careful packing and truthful labelling. There have been many losses through unskillful packing. The essay was a valuable one and was well received.

In the discussion Benj. Grey said that the trade in ornamental shrubbery to local florists means increased income for balance of the year when no flower trade. It is good stock to have, for if you can't sell this year for twenty-five cents you can keep it till next year and sell for seventy-five. Mr. Dawson spoke highly of the influence exerted by the Arnold Arboretum. The example set there of home propagation has resulted in the condition that more shrubs are now home grown than are imported. He spoke of the value of the dwarf evergreens which we have in such great variety. They are useful for many decorative purposes both outdoor and indoor. He also spoke of the profit in growing shrubs for forcing. The discussion was also participated in by Messrs. Ewell, Gormley and others.

Two new members were admitted.

The bowling club then held a meeting and adopted by-laws and regulations. The club will meet March 16 and 30 at Brookline street alleys. Mr. C. V. Whitten extended free use of his private alleys at any time the club desires. A unanimous vote of thanks was voted for the generous offer.

Chicago.

At the meeting of the Florist Club last Thursday Mr. F. Kanst, superintendent of the floricultural department of the South Park system, read an essay on the growing of bedding plants in large quantities, which appears elsewhere in this issue. The essay was well received and a vote of thanks tendered the essayist.

Announcement was made of the death of Charles Reissig and it was decided to attend the funeral in a body. Arrangements were made for a suitable floral tribute and a committee was appointed to draft resolutions expressive of the sentiments of the club regarding the loss of so old and valued a member. A request was received from Mrs. Reissig that the club select six of its members to act as pall-bearers and the request was complied with.

On the table was a plant of Cyclamen persicum giganteum that attracted a good deal of attention. It was in a 6-inch pot, excellently grown and splendidly flowered. It was from Mr. Wm. Kirkham, gardener for Mrs. Rockafellow at Maywood.

The project of a spring exhibition at the Lincoln Park conservatory has been practically abandoned and all effort will now be concentrated on the great chrysanthemum show next fall.

Never in the history of this city has there been such a scramble for flowers as at present. The scarcity of stock can in a measure be accounted for in part by the extraordinary dark and cloudy weather which has prevailed for a month, although it can not be wholly laid to this cause. In fact the majority of growers trace it back to the severely trying hot spell we had last fall. Whatever the cause the fact remains that stock of all kinds, and roses in particular, never were so scarce as at present. The prices have of course kept up to the top notch. Mermets and Brides sell at 7 to 8, Perles 6 to 7, Gontiers 5 to 6.

Hybrids are at last coming in, although in too small quantity to meet the demand. Jacqs also are in the market in very small quantity and are of rather poor quality.

The supply of carnations has kept up better than any other stock, still there is not enough to go around. Violets are fairly plenty though no over stock. The

same might be said of all bulbous stuff. The supply of this class of stock is, generally speaking, fair and finds a ready market at good figures.

Among recent visitors to the city were F. B. Wenderoth and Judson Kramer.

The florists were kept pretty busy during the week the congressional excursionists were here. It was a continual round of entertainments and the floral decorations were numerous and elaborate. But the scarcity of flowers made it uphill work to meet demands.

Philadelphia.

Business has been at white heat the past week, everybody busy and flowers of all kinds in great demand. Prices stiffened up a little, but most growers were satisfied to sell out clean at the old rates. Daffodils and tulips are now to be seen at their best and are very popular, with the supply hardly equal to the demand.

The Brunner is king. All other roses are thrown into the shade. For all the swell occasions it is the Brunner or nothing, and how the boys did hunt for them the past week. Messrs. Anderson and Heacock were the particular dispensers of his majesty's favors and their bank account must now present a very satisfactory appearance.

Laings have also sold very well, but at about half the price of the Brunners. Heacock is cutting some particularly fine roses of this variety.

Mr. Lonsdale is very enthusiastic over the Buffalo convention and says the exhibit of cut flowers was the finest he has ever seen.

Habermehl of Erie avenue has a particularly fine batch of cinerarias. They are very well grown and find a ready sale.

The second assembly ball was held Friday, the 26th. There were about as many bouquets carried as at the first, possibly a few more. All the Brunners that could be obtained were made into bouquets for this event, at prices ranging from $20 to $40 each. One bouquet was arranged with choice orchids and roses, in which valley was used as smilax to fill in and back up the bunch. Another had valley sewed over the ribbon. The decorations were very elaborate, the committee having undone their purse strings. Graham put his best foot forward and as a result it was the best decoration seen for a long time. Fine palms, asparagus, Brunner roses and orchids were used liberally, as well as southern smilax and pines in the background.

Lilacs are scarce in this market. None of the growers make a specialty of them. Campbell and Kennedy have had quite a batch and George Uber has tried his hand successfully. It would certainly pay a grower who could keep up a supply of this flower the season through.

The bowling element are now in their glory. In the tournament McLean and Heron are tied for first place, Anderson is third, Longinette fourth and Kennedy has fallen to fifth place. This is the first class. In the second and third classes the leaders hold their own.

By the way, in a little match at the Hub recently, we believe the Philadelphians came out on top. Thus may it always be.

If the Philadelphia growers don't make a change soon in the matter of dirty flower pots there is going to be war. The dealers have come to the conclusion that the growers should find time and a scrubbing brush and so change the appearance of pots that it will no longer be difficult to tell whether a plant is potted or whether it has just been pulled up from a bed of soil, there being so much dirt clinging to the side that one has really to feel for the pot.

Charles Price's paper on how to grow hybrids profitably is looked forward to with a great deal of interest. He has been gathering matter from all the successful growers of these roses and this, in addition to his own experience, should give material for a very instructive essay.

St. Louis.

Fully two weeks have passed us with scarcely a sunny day. Who can wonder at the general scarcity and poor quality of roses under such circumstances? The lack of sunshine has had such an effect upon the coloring of the roses that La France and other colored roses sent in to one of the stores during the past week were thought to be new kinds by the customers.

There is no very material change in prices. Funeral and other set work is fairly plentiful.

The Florists' Club has succeeded in getting the Exposition music hall for its next annual chrysanthemum show in November.

Mr. Frank Fillmore is carrying a nice stock of young healthy pelargoniums this year.

Mr. Koenig has just returned from a trip to Chicago. Mr. Jordan is about to go west seeking two weeks of pleasure.

Mr. Robert Tesson is propagating a good stock of young roses for the trade. An inspection of his steam heating plant revealed a few good points that might well be stated here. The house is 304x18½ feet and built after the eastern style of rose houses. The boiler is a 75-horse power capable of heating two other such houses as the one just mentioned. A higher pressure is kept in the boiler than is used in the pipes and the water of condensation is pumped back to the boiler, or to the water tank as may be required, by an automatic pump. Attached to the steam gauge is a metal point that the indicator strikes when the steam pressure falls to such a point as to be unable to work the pump. This sounds an alarm in the fireman's room and thus reduces the danger of freezing out and lightens the work of firing considerably. The side walls of the boiler instead of being brick as is generally the case are hollow steel cases 14x4 feet and 6 inches thick. These are connected with the main boiler in front and on top by 3-inch pipes, thus increasing the efficiency of the boiler very materially.

While at Young's greenhouses your correspondent saw one of their steam fumigators in use. This is very evidently a good and safe way of fumigating and bids fair to supersede the old method wherever its use is practicable. They had just filled a novel wedding order in which 120 sprays of lilac were used.

In your last issue is an article by Mr. Wm. Falconer headed "Naming Plants." In it he discussed the difficulties encountered by gardeners and florists in naming many kinds of cultivated plants and suggested a way out of the trouble. In talking with Prof. Wm. Trelease, Director of the Missouri Botanical Garden, about this matter, your correspondent learned that the Garden stood ready to do all it could so far as its facilities would allow, to render assistance in this matter by naming either dried specimens or growing plants sent in proper condition for identification. J. W. D.

Baltimore.

Washington's birthday was a beautiful day, ideal in fact. It was marked by a reduction in railroad fares between us and our next neighbor to the very low rate of $1 for the round trip, and, though Washington is a nice little place, the inhabitants show their good taste by taking advantage of such times to visit us, and when here by buying flowers to wear. So that in connection with the usual brisk trade of a holiday the addition to the strollers about town made things decidedly lively in the flower way.

The rest of the week was nearly as good, though the weather Thursday and Friday was dull and sloppy. Prices held about the same as last week, with a very considerable falling off in the quality of stuff offered, except violets, which are fine. Smilax very scarce, and the supply of Perles and La France short.

The Club met Monday evening with a public ball in full swing above, and frequent accompaniment of brass band from the side, so that at times things literally rattled in the hall.

The report of the committee on the annual banquet called out a surprising diversity of opinions from the members; one gentleman expressing himself to the effect that any such embellishment of life was "a piece of foolishness," and the money would be better spent in helping some poor fellow florist along, or, best of all, in starting a fund to build a hall. It was a good natured discussion though, and after the man who wanted plenty of wine, and the man who wanted none, the extravagant man, and the economical man and numerous others had all had their say there was a general laugh; then the club decided to invite the two gentlemen of longest standing in the business here, Messrs. W. D. Brackenridge and Jas. Pentland, to be their guests on the occasion and the whole matter was dropped.

A meeting of all members interested was called by Mr. Ed Kress for March 2nd to organize a bowling team, and enable Baltimore to take the place she deserves in the front ranks of florist bowlers. Hurrah! Set 'em up again!

There was no essay and the question box not bringing up any matter to provoke discussion, the club adjourned at a comparatively early hour. MACK.

Toronto.

Other clubs (notably that of Hamilton) are beginning to move in the matter of botanic gardens for Ontario, and it is to be hoped that before next fall things may be in such a shape that pressure sufficiently strong can be brought to bear on the Provincial Government to make it give the subject at least its "serious consideration." But the clubs have got a good summer's work before them in order to make a success of it. Governments always seem to have especially foggy and incomplete ideas on horticultural matters, so that any deputation appointed to interview them should be well posted on all possible points so that objections may be promptly squelched, questions effectively answered and doubts settled.

"Chrysms" is certainly the best contraction yet and Mr. R. Ferris, the inventor, is I think entitled to "go up head." Chrysanthemums is exhausting, "mums" is brutal, "chrysanths" is too long to be short enough, but "chrysms" is elegant and just right, let it be put in the glossary and perpetuated.

The prize list for the coming July flower show held by the Toronto Electoral District Society has been looked over and

improved by a committee of the Gardeners' and Florists' Association. Thanks to this committee this July show has improved 50 per cent in the last three years and many injustices have been remedied. Some really very fine specimens of stove and greenhouse plants, palms, etc. are exhibited at this show and it might be worth Mr. Thorpe's while to give us a look about that time. Between $700 and $800 is all the prizes amount to, but the amount gets bigger every year. E.

Montreal.

Business still good. Roses and carnations scarce. Tulips, narcissus and other bulbous stuff plentiful and does not sell as freely as last year. Tulips in particular "go" very slow. Probably the political situation here has something to do with it.

At Premier Abbott's place for the last three weeks there has been a splendid show of cattleyas, chiefly Trianæ and Trianæ alba, one of the latter being remarkably fine, so Wm. Wilshire, the man in charge, says and he ought to know.

Campbell is afraid he has got the violet disease. Mac has got a sore throat (this is an annual with him). Murray has some good hyacinths this year. Kirkwood is all right again. Stanford got "Kitty." W. Mott, of H. A. Dreer, has been in town this week and reports very fair business. J. B.

Detroit.

Mr. J. F. Sullivan has completed his new place and it is so well arranged for a general florist's business that a description may be of interest.

The grounds, 6½ acres, are situated 5½ miles from the City Hall on Gratiot Ave., on an elevation affording excellent drainage. The new greenhouses, ten in number, are each 100 feet long; 5 of them are 16 feet wide to be used for carnations, palms, smilax, etc; 1 10½ feet wide for small pot roses; 2 6 feet wide for propagating, and 2 18 feet wide for rose forcing houses. They are all built in the most substantial manner of cypress lumber; the entire upper woodwork is painted with two heavy coats of best white lead and all joints well saturated with white lead before being put together. A large shed 30 feet wide by 100 feet long runs north and south; on the west side are the rose houses and propagating houses; double thick glass, 16x20, is used, and glazed with zinc joints; a walk 2 feet 10 inches wide runs through the center of the rose houses, with a narrow walk on the outside of the two tables, each 6 feet 6 inches wide; the steam pipes are carried along the outside of these walks far removed from the roses and thus avoiding trouble from spider; these houses have 1¼-inch iron pipes for ridge and purlin posts, placed 6 feet apart in line, secured on the bottom with flanges screwed to heavy cedar posts. The six houses on the east side of shed and entering into same are glazed with single thick glass, 12x12, bedded in putty; all the houses have continuous ventilators running the entire length of the house, operated by the lever system, which is simple and satisfactory; the ventilators are all fastened with brass hinges and screws placed two feet apart; the use of brass in such an exposed place is a great improvement, as it precludes any possible danger from rusting and the annoying and expensive consequences.

There is a large cellar under the entire shed, half of which is devoted to the boiler and storage of fuel, the other half to the storage of bulbs, etc. The heating is done by steam furnished by one large boiler. One-inch pipe is used throughout the place for radiation; large main pipes run along both sides of the shed over the doors entering the houses supplying the coils of 1-inch pipe running under the tables, each coil having a return pipe entering a larger one running across the ends of the houses next to shed and giving excellent circulation, the large return pipe for condensation being nearly as hot as the steam pipes. Crude petroleum is used for fuel and gives entire satisfaction even at the high price of 75c per barrel. The shed has a 2-inch plank floor, double doors at each end affording facilities for driving teams directly through the shed for loading and unloading for any purpose in shelter. One corner is fitted up for an office, being partitioned off from the main body of the shed, with ice box, tables, shelves, etc. for floral work. Another portion is fitted up with stalls for all the different sizes of pots. Large water pipes are laid all over the place, with faucets in every walk in both center and ends of the houses, and in the shed at any and all places where water is likely to be wanted. The water is obtained from a creek running through the place and is pumped by a large windmill to a tank of 400 barrels capacity, elevated 60 feet above the ground, giving a strong water force which is very valuable for the destruction of spider and speedy watering of a large place. A neat barn 32x32 is built in the rear of the place for wagons and horses.

The residence, also new and of modern style, stands on the edge of a bluff overlooking the creek and Gratiot avenue and far enough removed from the latter to avoid annoyance from dust and passing traffic. The soil on the place is of clay loam and sandy loam which is well adapted to the culture of plants of all kinds. Large permanent beds of hardy roses will be planted and great quantities of lilies, for which some of the soil has a peculiar fitness. A considerable portion of the grounds will be devoted to ornamental shrubbery, perennials and small fruits.

OBITUARY.

CHARLES REISSIG, one of Chicago's oldest and best known florists, died at his home in Riverside February 24, aged 73 years.

He was born in Hamburg, Germany, August 20, 1818, and after leaving school was employed for a short time at the trade of boiler maker. In 1836 he went to Rio Janeiro and entered the employ of the Brazilian government as boiler maker, which position he filled two years, and was subsequently employed in the Brazilian government navy yards for two years, afterward for five years in the employ of the Brazilian Steam Packet Co. as a boiler maker. In February, 1845, he left Rio Janeiro for New York and from there went to Geneva, Wis. Not finding any opening there for his business he walked to Chicago, arriving in the spring of 1845. Two years later he opened a steam boiler and engine factory and built up a large business, giving employment to some 200 men. He did a great deal of work for the city of Chicago, especially for the city water works. In 1869 he disposed of his manufacturing business.

In 1856 he had built a small greenhouse at his home on West 16th street and began to cultivate plants for pleasure and after disposing of his boiler business in 1869 he enlarged his place and engaged in the florist business as a commercial venture and opened a floral store in Crosby's Opera House, which he retained until wiped out by the fire of 1871. After the fire he built a small greenhouse and store connected with it on Wabash avenue, near 14th street, later on removing to 86 Washington street and then to 66 Washington, where he maintained his city store for 3 years. In 1873 he built five large greenhouses at Riverside, to which additions were subsequently made until his glass surface reached 50,000 feet. In 1879 he removed his city store to Wabash avenue, occupying numbers 175, 167 and 169 at various times until 1889, when he moved to 31 Washington and from there to the Auditorium Building. He retired from active business July 1, 1891, disposing of his retail store and renting his greenhouses, with the exception of a house devoted to orchids and palms, which he kept and maintained for his own pleasure.

Mr. Reissig was married in 1872 to Mary Becker, who with the six children—Flora, Rose, Lily, Charles, Daisy and Paul—survive him.

That Mr. Reissig was held in high esteem for his many noble qualities was evidenced by the great number who braved one of the most unpleasant days of the year to pay a last tribute of respect on the occasion of his funeral, which was held at his residence in Riverside last Sunday. Though the roads were execrable and a cold rain was falling the large house was crowded and the funeral cortege was of unusual length. There was a large delegation from the Florist Club, from whom, in accordance with the widow's request, the pall-bearers were selected. He was laid to rest in the Forest Home Cemetery.

The floral arrangements at the funeral were very rich, but not over ostentatious. Many of the arrangements were of orchids of which Mr. Reissig was passionately fond.

Mr. Reissig leaves an estate of some magnitude, in spite of the fact that he was very liberal and lived well. He was very hospitable and his many friends were always sure of a warm welcome at his home. A good man has gone to his reward.

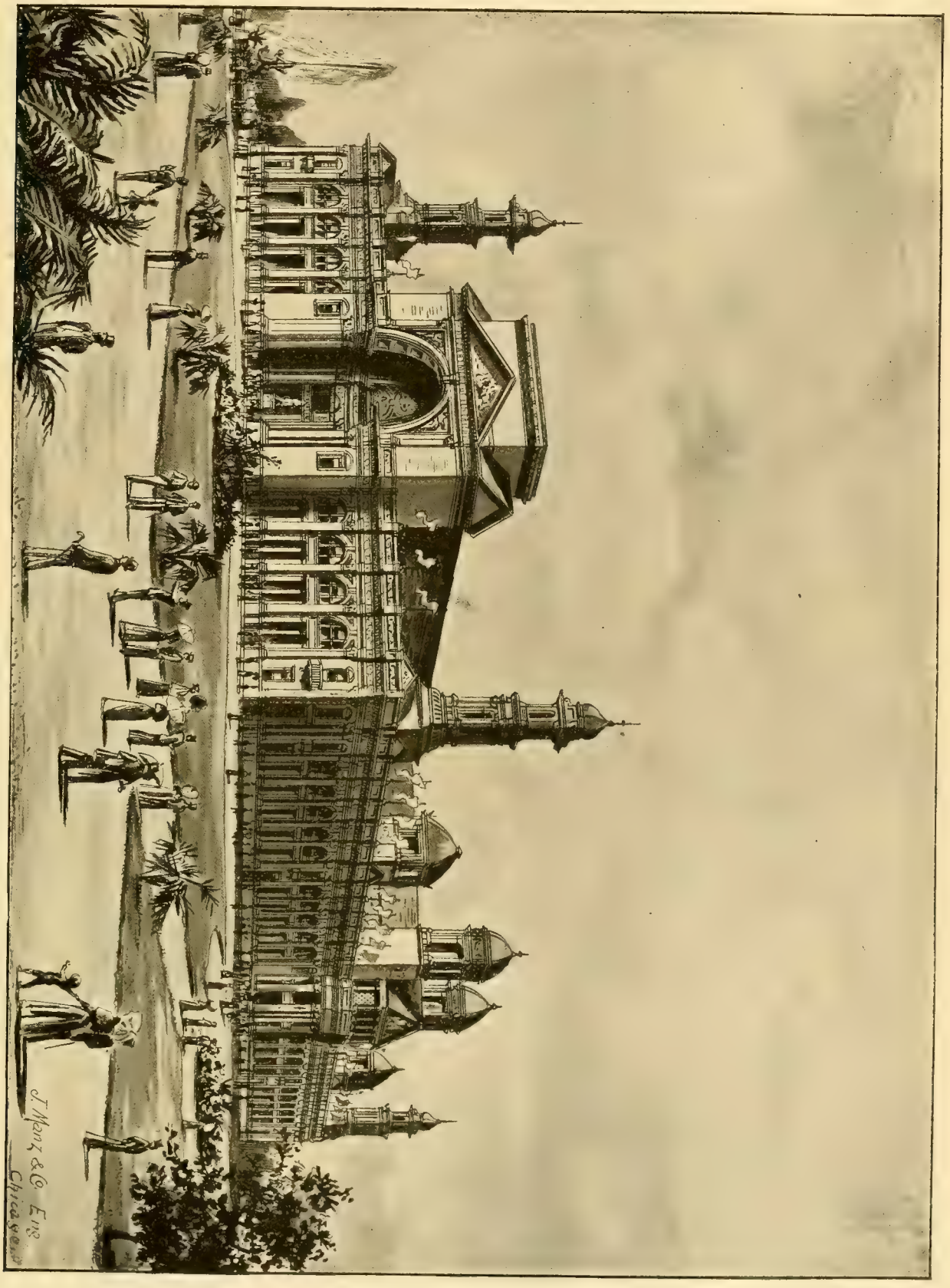
NEXT WEEK comes our special spring number and it will be a beauty. If you have not yet sent copy for an advertisement in it send at once or you will be too late.

MR. FRANCIS FELL has succeeded Mr. Thomas S. Ware of the Hale Farm Nurseries, Tottenham, London, England. Mr. Fell was for many years manager for Mr. Ware and the change in ownership will make no change in the management.

THE CHAIRMAN of the Committee on Floriculture, Horticulture and Viticulture of the Pennsylvania World's Fair Commissioners, estimates the cost of a proper display of trees, plants and flowers at the Chicago Exposition at $18,000 or $25,000 in excess of the amount assigned to the committee by the managers.

A NEW FUNGICIDE.—We are advised by Mr. C. H. Joosten, New York, that he will soon have completed arrangements for the introduction of a new and improved fungicide that is claimed to be not only more effective but cheaper and more easily applied than any of those at present in use. It is a very fine powder, applied in the dry state and will, it is said, like a cloud of smoke reach every part of plants to which it is applied.

LAST CALL for advs in the special number to be issued next week.



ELECTRICITY BUILDING FOR THE WORLD'S COLUMBIAN EXPOSITION AT CHICAGO IN 1893

The Electricity Building at the World's Fair.

The building covers a space of 700 by 350 feet, or more than five and one-half acres. Like most of the other buildings the style of architecture is Italian renaissance. It is 60 feet high and ornamented with designs suggestive of the department. It is one of the handsomest of the grand central group, and will cost $650,000. There will be four entrances to the building, the main one on the south. It will be built of a material resembling granite in color. A statue of Franklin will rise conspicuously before the south entrance.

SEND COPY at once for your adv. in our special spring number to be issued next week. This is your last chance to secure space in that issue.

Asparagus P.umosus.

I have a small stock of Asparagus plumosus. How shall I increase it? L.

C. L. WATROUS of Des Moines, Ia., has been selected as chief of the Iowa Horticultural Exhibit at Chicago.

WHEN sending us small amounts in postage stamps, please select those of the 2-cent denomination.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

IN FRAMING rules and regulations for the coming exhibitions every care should be taken to have them so full and explicit that there shall be small chance for irritating differences of opinion to arise as to their exact meaning. The greatest danger is from rules enacted later conflicting with, or modifying, those earlier adopted and thus throwing the whole machine out of joint. General rules are always dangerous and should be adopted only after making quite certain that they will have no undesired effect upon any rules already adopted.

News Notes.

NEW ROCHELLE, N. Y.—The Rose Hill Floral Society gave its second annual ball February 25.

MASON, MICH., has no florist and a resident advises us that it would be a good point for a beginner in the trade.

CEDAR RAPIDS, IOWA.—T. M. Giberson is building a new greenhouse. I. N. Kramer & Son are pushing the seed department of their business.

NORTH EASTON, MASS.—Your correspondent desires to correct an error in notes on orchids, Page 542, in which Odontoglossum Hunnewelliana is mentioned as one of Mr. Robinson's seedlings. It was sent out by a prominent European firm.

DES PLAINES, ILL.—F. L. Pruse, florist, suffered a loss of his greenhouse sheds by fire February 12. He suffered a loss of about one fourth of the plants in each house besides considerable damage to heating apparatus. Mr. Pruse was severely burned on his hands and face.

SAN FRANCISCO.—Roses have been very scarce since the middle of January and growers can command no price for them, the trade having fallen off about 50 per cent in comparison with last year. Narcisus and violets are now plentiful and some florists have piles two and three feet high in their show windows.

DEERING, ME.—Chas. Ramsey, landscape gardener and florist, died at his home on February 23, aged 76 years. He was born in Scotland. He lived in Deering for over 40 years and was for many years superintendent of Evergreen Cemetery. Many evidences of his skill as a landscape gardener exist in various parts of the state, where he has laid out many private and public grounds.

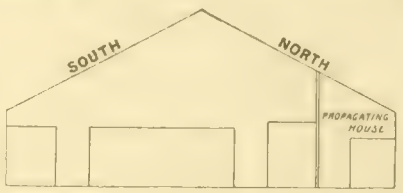
CHESTNUT HILL, PA.—Florist Thomas Butler of Wyndmoor, near here, arrived home on Tuesday from a week's stay in Sidney, Champaign county, Illinois. He was accompanied by his mother, aged 81 years, who will spend her remaining days with him. The old lady, who is enjoying excellent health, came all the way in a day-coach, preferring not to take a sleeper. This is the kind of stock florists come from.

GERMANTOWN, PA.—At the meeting of the Horticultural Society on Feb. 16 the subject of a chrysanthemum exhibition, to be held in the fall, was discussed and preliminary action taken. There was quite a display of plants and flowers, premiums being awarded to F. Smith for bletia and other plants, A. Muldoon for specimen azalea, Rob't Morrison and John Kirby for collection of azaleas, Woltemate Bros. and A. Muldoon for Chinese primroses and to Thos. Meehan & Son for collection of carnation blooms.

ELMIRA, N. Y.—Grove P. Rawson is building a new house 26x370; to be used for blooming roses in summer. The roses will be planted in solid beds. The house will have just enough steam pipes to keep frost out in winter. In these houses he gets his first crop in May and continues to cut high grade blooms until November. Mr. Rawson has also just completed a rose house 22x250 for winter forcing. The house is of cypress lumber put up in first-class shape, glazed with 16x24 first quality double thick Pittsburgh natural gas process glass, which he considers fully equal to first quality French.

North Side Propagating Houses.

For the benefit of those who have been asking what a north side propagating



house is, we present herewith a diagram showing a cross section of a house with a "north side" propagating house at the right.

POTASH SALTS.—Your correspondent can obtain potash salts of H. J. Baker & Bro., 215 Pearl St., N. Y. E. S. M.

VIOLETS.—Mr. Grove P. Rawson, Elmira, N. Y., sends us a bunch of 100 blooms of Marie Louise that it would be difficult to beat. All exceed an inch in diameter and the flowers are on strong stems and with handsome foliage. It is evident that Mr. Rawson has no need for a cure for the violet disease.

SITUATIONS, WANTS, FOR SALE

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—Any firm desiring a good all round man, please apply to ANCHORAGE ROSE CO., Anchorage, Ky.

SITUATION WANTED—As assistant Florist; general knowledge of greenhouse work. T. KEYS, 96 Linden Ave., Middletown, N. Y.

SITUATION WANTED—By thoroughly experienced florist to take charge of private or commercial place. Age 30; first-class references. FLORIST, Box 765, Kalamazoo, Mich.

SITUATION WANTED—By a gardener; two years foreman Botanic Garden, Hull, England, 1 year foreman and 2 years, private in Chicago. Address S. J. care American Florist, Chicago.

SITUATION WANTED—By gardener, married, no family; understand fruit, flowers and vegetables and general care of a gentleman's place. Age 35. Address J. T. Piermont, Rockland Co., N. Y.

SITUATION WANTED—By a reliable sober man; 9 years' experience in the cut flower and plant trade; 25 years of age, single; Swede. Address P. G. PERSON, care J. B. Heiss, 116 South Main Street, Dayton, O.

SITUATION WANTED—By a thorough, practical florist and gardener, fully competent to take charge of a first-class private or commercial place. Roses, carnations and violets a specialty. Address W. H. care News Co.'s Store, Elizabeth, N. J.

SITUATION WANTED—By a florist gardener, on large private place, or otherwise. English; single, 30 years' experience in England and America, private or commercial; East prefered. State wages. STRATTON, 610 19th, Street, San Francisco, Cal.

SITUATION WANTED—In store or office as general clerk or as bookkeeper. Experienced in seeds bulbs and florists supplies and with fair knowledge of plants and nursery stock: also through accountant, first-class references; moderate expectations. JOHN W. COBURN, 2207 Fifth Ave., New York City.

SITUATION WANTED—By a young American who speaks the German language; in greenhouse or outside work. Am good at growing stuff on the outside, also on landscape work. Have had charge of a number of first-class places in this country and can give good references. A good place and fair wages expected. Address M M. care American Florist, Chicago.

WANTED—A man acquainted with seed and nursery business. M 2, care American Florist.

WANTED—A good, reliable man for general greenhouse work. Give references and state wages expected. I. N. KRAMER & SON, Cedar Rapids, Ia.

WANTED—A first-class gardener to take care of a small greenhouse and grounds. Will furnish cottage for a married man. Address F. M. HUBBELL, Des Moines, Iowa.

WANTED TO RENT—With privilege of purchase, a greenhouse establishment, near Boston. Southern roads prefered. Address LOTHROP WIGHT, Framingham, Mass.

WANTED—A thoroughly reliable man, married or single, for general greenhouse work. Good wages. Reliable references indispensable. Address C. RAYNER, Anchorage, Ky.

WANTED—A young man one who has had experience and is willing to work at anything about a commercial place, either in store or greenhouses, single man prefered; good wages; must be well recommended. W. A. WETTLIN, Hornellsville, N. Y.

WANTED—A young man as salesman for a Floral department in a large dry goods store. Hours 8 to 6 and no Sunday work. Must have had experience in design work and decorating. Apply by letter giving particulars and reference to, BROWN, THOMSON & CO., Hartford, Ct.

WANTED—A thoroughly good man to take charge of a commercial place, one who understands the growing of greenhouse stuff and the forcing of roses, carnations and Bulbs of all kinds, also palms, orchids and smilax. $25 00 per month with room and board. MRS GEO R. FRAVELL, Marion, Ind.

FOR SALE.

Nine Green houses and seven hotbed frames, 12 000 square feet glass with circa two acres of land and stock for sale very cheap, and on easy terms. The houses are in splendid conditions situated in one of New England's best localities, with a large and extra good home market and established trade. The stock represent a wholesale value of over $5,000, in good and saleable condition for spring trade. New steam boiler with 3 000 feet of pipe, cost about $1,250; 20,000 pots all sizes; tools and implements. The price on property, land, houses with stock, heating apparatus etc, is $6,500, largest part of which can stay in the property. It is a splendid opportunity for one wishing to buy an established business, as the property is in first class condition, ready for the coming season. For further particulars write to

H. C. HENKING, Springfield, Mass.

FOR RENT,

ON ACCOUNT OF BAD HEALTH.

Ten greenhouses with stock. This is one of the best places in the United States for shipping purposes. You can ship plants all through the South in Jan. and Feb'y in open boxes, and that is a great advantage to a florist. You can establish a very large shipping trade from here south, as it is a great point to ship cut roses, as a man can ship all the roses he raises to Mississippi, Louisiana and Texas, and all other principal cities. There is one drawback to shipping roses from the North here—it is too far. This place has a large local trade and has been established since 1868, and is all heated by low pressure steam. We will be ready to rent by the 1st of June—with or without stock—and that is plenty time to plant your roses. Those that are planted in July produce more roses for the holidays than any other time. This is a good chance for a man to get a big start on a little money. For further information, apply to **H. MOORE, 54 Beal St., Memphis, Tenn.**

Rooted Cuttings.

CARNATIONS, CHRYSANTHS, GERANIUMS, COLEUS, VERBENAS and MISCELLANEOUS BEDDING PLANTS. Cheap for cash. Send for price list.

JOHN J. CONNELLY, BRYN MAWR, PA.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price-list write for same
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

JOHN C. BRUCKNER,
WHOLESALE DEALER IN
CUT FLOWERS,
AND FLORISTS' SUPPLIES,
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.
PHILADELPHIA.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S. PENNOCK.)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

HARDY CUT FERNS
MOSS {SPHAGNUM AND GREEN SHEET.
A 1 IVY LEAVES.
BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.
Mention American Florist.

Wholesale Markets.

Cut Flowers.

BOSTON, March 1.

Roses, Bon Silene	5 00@ 6.00
" Gontier, Niphetos	6.00@ 8 00
" Perle, Sunset	8.00@10.00
" Mermets, Brides	10 00@12 00
" Waban, La France	12 00@15 00
" Wootton	10.00
" Jacq	20 00@25.00
Carnations, short	2 00
" long	3 00
Violets	.75@ 1 25
Pansies	.50@ 1.00
Tulips, hyacinths	3 00@ 4 00
Valley	2 00@ 4.00
Daffodils	4 00
Callas	8 00@10 00
Harrisii	10.00@12.00
Smilax	12.00@15 00
Mignonette, Freesia	2 00
Adiantums	1 50
Cattleyas	50.00
Acacia	25 00
Coreopsis	1 00
Heath, per bunch	.75

NEW YORK, March 1.

Roses, Gontiers, Niphetos	4 00@ 5 00
" Cusins, Watteviles	8.00@12 00
" Perle, Wootton	5 00@ 6 00
" Mermets, Brides, La France	8 00@10.00
" Beauties, Brunners	50.00@75.00
" Diesbach, Magna, Laing	50.00@75.00
Carnations	1.50@ 2 50
Violets	.75@ 1.25
Valley	1.50@ 3.00
Tulips	2.00@ 3 00
Daffodils	3.00@ 4 00
Freesia	1.00@ 2 00
Harrisii	4 00@ 6 00
Mignonette	1.00@ 2 00
Smilax	20 00@35 00
Adiantum	1.50@ 2.00

PHILADELPHIA, March. 1.

Roses, Brunners	60.00
" Laings	20 00@35 00
" Beauties	15.00@35 00
" Mermets, Brides	8 00
" La France, Albany	8.00@10.00
" Cusins, Watteville	5 00@ 6.00
" Perles, Niphetos, Gontiers	4 00@ 5.00
Valley	3 00@ 4.00
Carnations	1.50@ 2 50
Violets	.75@ 1.00
Daffodils	4.00
Mignonette	1.00@ 3.00
Tulips	4.00@ 5.00
Romans	2 00@ 4.00
Harrisii	10.00@12.00
Smilax	15.00@20.00

CHICAGO, March 1.

Roses, Am. Beauties	15 00@25 00
" Mermets, La France	5.00@ 8.00
" Albany, Bride, Waban	6 00@ 8.00
" Bennetts, Dukes	5 00@ 8.00
" Perle, Niphetos	4 00@ 6 00
" Gontiers	3 00@ 6.00
" Bon Silenes	3.00
Carnations, short	.75@ 1.50
" long	1 50@ 2.00
" fancy	3 00
Romans, Narcissus, Valley	3 00@ 5.00
Callas, Harrisii	12 50@15 00
Violets	1 00@ 1 75
Smilax	15.00@20 00
Tulips	3 00@ 5 00
Daffodils	4 00@ 6.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.
Mention American Florist.

FLORAL DESIGNS,
The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

EDWARD C. HORAN,
WHOLESALE FLORIST,
34 W. 29TH ST., NEW YORK.
Successful Shipping Our Specialty.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

GEO. MULLEN,
WHOLESALE FLORIST.
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order.

Orange Blossoms,
Sweet Olives,
Magnolia Fuscata Flowers,
These most delicious of all fragrant flowers are now ready for shipment, either each variety single or all mixed in one dozen, at $1.00 per doz. by mail post paid.
R. MAITRE,
140 Canal Street,
And at "THE HOME OF FLOWERS"
St. Charles Ave. Cor. Clinton Street,
NEW ORLEANS, LA.
Mention American Florist.

Always mention the AMERICAN FLORIST when writing to advertisers.

YOUNG BROS.,
20 West 24th Street, NEW YORK CITY
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

FLORAL PARK, N. Y.—Mr. J. L. Childs has recently purchased a tract of land near the station, on the north side of the railroad, on which he will erect a large printing house, size 50x100 feet. It will be fitted up with the best machinery and will be a perfect model of its kind, costing when complete $40,000 to $50,000. It will be devoted to printing the *Mayflower* which now has a circulation of nearly 300,000 per month.

THE MAIL TRADE in the east to date is evidently off from 10 to 15%, not counting the prospective increase some always look for. Advertising is affected in the same way. One man explains it because the west is sending all the money east to pay off mortgages. The mail has miscarried to some of us if this is the case.

E.

G. J. LAMBRIGGER, the seedsman at Big Horn, Wyoming, is reported to have failed and left that part of the country.

MRS. WAYTE, wife of Alfred Wayte, formerly a florist at Queens, now a resident of Chicago, died recently.

THE Philadelphia seedsmen report business up to February 22nd considerably behind that of last year.

J. LEWIS CHILDS, of Floral Park, N. Y., is taking a rest for a few days in Washington, D. C.

FLORAL PARK real estate is booming.

The World's Fair.

The frame work of the supplementary greenhouses is already up. These houses are to be used to shelter plants received from now on and to grow them into exhibition shape, and also for the propagation of the vast number of bedding plants that will be needed for general decoration. The houses are eight in number, of which four are 100x26 and four 100x24.

The first exhibit on the grounds has been installed, and it is in the Horticultural Department. It is a group of six very large trees placed at the north end of the Hort. Building by P. S. Peterson, a Chicago nurseryman.

The cyclamen seed sent to Chief Thorpe in response to the circular published some time since, and planted under his supervision, is now coming up and the race is on. Pending the completion of the houses mentioned above Mr. Thorpe has space in the South Park greenhouses and here the little fellows are making their start. The European seedsmen responded as generally as the Americans and the contest will be very interesting.

Chief Thorpe's office at the World's Fair grounds is nearly completed and he expects to make his headquarters there in a few weeks.

The framework of the dome of the Hort. Building is completed and the roofs of the wings are also nearly finished. The staff covering of the sides of the building is also nearly all on. As it takes shape the building presents a noble appearance and its immensity fairly takes one's breath away. Certainly horticulture will be magnificently housed at the great fair.

WM. ELLIOTT & SONS,

54 & 56 Dey St., New York.

Seedsmen and Horticultural Auctioneers.

CATALOGUES MAILED ON APPLICATION.

Our Spring Auction Sales Commence on or about March 1.

ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.



THE INVISIBLE Bouquet Pin

is **used** and **endorsed** by well known florists from **Maine** to **Mexico.**
(It sells with the Bouquet)

HANDY and USEFUL

Approved by the Society of American Florists.

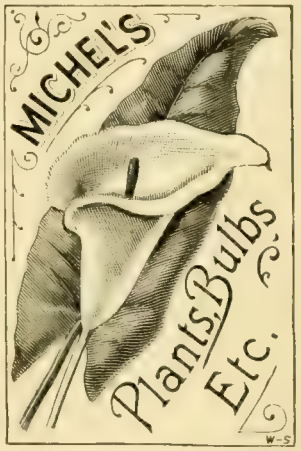
A **PRACTICAL** Bouquet Pin which **SAVES TIME** both to the florist and his patrons.

75 Cents a GROSS.

GEO. B. WILLCOX, Bay City, Mich.

Send for my PRIMER, free.

Chicago Agent:
E. H. HUNT, 79 LAKE STREET,
Mention American Florist.



Write for wholesale list.

MICHEL PLANT AND SEED CO., ST. LOUIS, MO.

Mention American Florist.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

CLEMATIS.

Strong heavy plants.....doz. $4.00
Lighter, equal to imported..... " 3.00

ROSES—H. P. 2 year, own roots, choice kinds.....per 100 $10.00

DAHLIAS—50 vars., whole roots, proved sorts.....per 100 $8.00

F. A. BALLER, Bloomington Ill.
Mention American Florist

For Spring Potting.

The best time to pot off small Palms and Foliage Plants is NOW, and they will then be ready to fill houses with for summer, after bedding plants are cleared. Cheap plants as follows:

	Per 100
Aralia Sieboldi, 2-inch pots	$10.00
Pandanus utilis, 2-inch pots	10.00
Areca lutescens, 2-inch pots	10.00
Dracæna terminalis, 2-inch pots	8.00
Latania borbonica, seed boxes	4.00
Cocos Weddelliana, seed boxes	8.00
Cocos plumosa, seed boxes	8.00
Asparagus plumosus, 3½-inch pots	40.00
Begonias, tuberous, single, finest flowers, distinct colors	10.00
Begonias, tuberous, double, very fine.	20.00

(Begonias are started, but can be mailed for next three weeks)

JOHN H. LEY,
Tropical Nursery, Anacostia. **WASHINGTON, D. C.**
Mention American Florist.

CAMELLIA JAPONICA
—AND—
CROZEY'S NEW CANNAS.

1000 CAMELLIA JAPONICA, 3-inch pots, five named good varieties.
1000 CROZY'S NEW CANNAS in 13 named varieties.
500 Ehmanni, Noutoni, La Tour de Grand Roude, etc. In quantity to suit purchaser.

E. S. NIXON & SON, Chattanooga, Tenn.

Tobacco Stems.

I make a Specialty of packing stems for flower growers.

Prices and references sent on application.

H. A. STOOTHOFF,
417 E. 76th Street, NEW YORK CITY.

YOU MAY THINK

you know all about it, but do you? The use of **LONG'S FLORAL PHOTOGRAPHS** while taking orders of your customers will do more for you over and again than you might think. A trial is convincing to any enterprising florist. Circular list with prices, free.

DAN'L B. LONG, Florist,
BUFFALO, N. Y.

EASTER PLANTS WANTED.

Growers having good stock of salable plants, please send us memorandum, stating names, sizes & prices.

WISCONSIN FLOWER EXCHANGE,
131 Mason Street, MILWAUKEE, WIS.

Blue Hydrangeas.

I see in your paper where a gentleman wants to know what sort of liquid to use to make hydrangeas a blue color. I don't know of any liquid, but I have potted them in peat and given them no manure, but plenty of pure water, and that treatment will give them a blue color. R. G.

MONEY IN GROWING MUSHROOMS

More money in them for less outlay than any other crop. Any one with a cellar or stable can raise them. Our Primer & Price-list tells the whole story. Free. Send for it. A brick of our celebrated English Mushroom Spawn mailed, post-paid, for 25c. JOHN GARDINER & CO., Seed Growers, Importers and Dealers, Philadelphia, Pa.



☞Gardiner's Seeds:—New Catalogue for 1892 now ready. Free. Send for it.

WE TELL THE **TRUTH** about Seeds. We will send you Free our Seed Annual for 1892, which tells THE WHOLE **TRUTH.** We illustrate and give prices in this Catalogue, which is handsomer than ever. It tells NOTHING BUT THE **TRUTH.**



Write for it to-day. (P. O. Box 1086)

D.M.FERRY & CO., Detroit, Mich.

Mention American Florist.

SEEDS!
PLANTS! BULBS!

Everything appertaining to the **Farm** and **Garden** of the best and choicest quality. **PRICES RIGHT.**

Catalogue on application.

WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

Geo. W. West,
GROWER AND EXPORTER OF
BERMUDA BULBS

Lilium Harrisii, Lilium Longiflorum,
Freesia Refracta Alba, Calla Lily,
Amaryllis Johnsonii, French Cannas, best vars.
Amaryllis Regia, White Roman Hyacinths.

CYCAS PALM LEAVES A SPECIALTY.
SHELLY BAY, BERMUDA.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN. CONN.

SEED POTATOES SEED

I have a large stock of all the leading **NEW** and **STANDARD** varieties.

Prices on application. In submitting list, always state quantity of each variety wanted. Catalogue on application.

E. H. VICK, 631 Park Ave., ROCHESTER, N. Y.

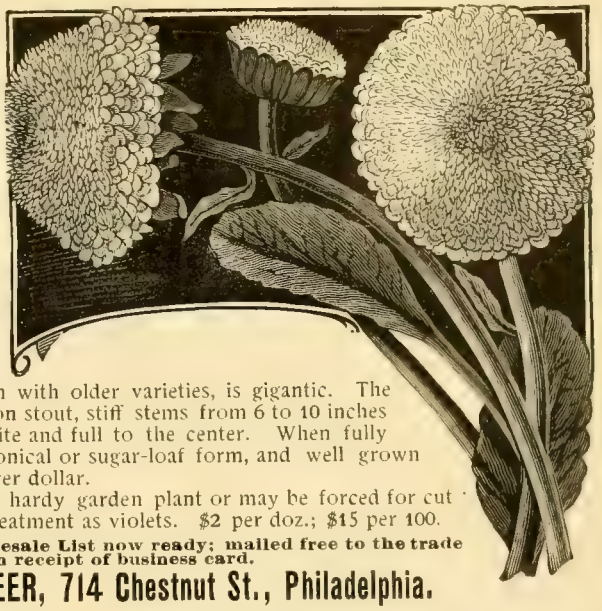
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Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

For next SIX WEEKS, I offer
100,000 ATAMASCO LILIES.
Selected, 100 for $7 00; 500 for $4.50; 250 for $2.25.
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New Double White Daisy Snow Crest.

—)o(—



A most distinct variety and an improvement on all existing sorts. Its habit of growth and size of flowers, in comparison with older varieties, is gigantic. The flowers, which are borne on stout, stiff stems from 6 to 10 inches long, are of the purest white and full to the center. When fully developed they rise to a conical or sugar-loaf form, and well grown specimens will cover a silver dollar.

It makes an admirable hardy garden plant or may be forced for cut flowers under the same treatment as violets. $2 per doz.; $15 per 100.

Dreer's Quarterly Wholesale List now ready; mailed free to the trade on receipt of business card.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

40 ACRES OF FRENCH BULBS IN CULTIVATION.

The most extensive cultivators in the South of France of

EARLY WHITE ROMAN HYACINTHS,

Lilium Candidum, Paper White Narcissus, Grandiflora, Double Roman, Incomparabilis, Aurantius double, Von Sion, Trumpet Major, Freesias, Allium, Anemones fulgens, A. Rosette, very early, and Cardinal's Hat, Amaryllis Vittata, Etc., Etc.

BENJAMIN RIMBAUD, Bulb Grower,
KNIGHT OF THE AGRICULTURAL MERIT, **TOULON, VAR, FRANCE.**

WILL SEND on demand THE LIST OF HIS PRICES for the aforesaid Bulbs, to be delivered free Toulon Railway Station, and also free from packing and carriage expenses on board TO NEW YORK.

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Offer to the trade choicest strains of
Flower and Vegetable Seeds. Spring Bulbs; full line of good stock.
FERTLIZERS, CANE STAKES, SPHAGNUM MOSS, ETC. Spring Trade List Ready.



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SMALL NURSERYMEN and OTHERS, you will not have the chance soon again to purchase small stock of TREES, SHRUBS & VINES for less than half price, as we are rapidly closing out. NURSERY FOR SALE on easy terms. Send for circular.
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Every Florist! Every Nurseryman! Every Seedsman!
SHOULD HAVE OUR TRADE **DIRECTORY.**
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The Violet Disease.

We print below a letter received from the director of the Purdue University Experiment Station, Lafayette, Ind., containing a request for diseased violet plants for the purpose of experiment. We hope this request will be freely complied with. This station has already done some valuable work in the investigation of diseases of plants of special value to florists and we feel confident that if the station is supplied with proper material the gentlemen in charge will give us some important information regarding the exact nature of the violet disease and best means of prevention and cure.

PURDUE UNIVERSITY
AGRICULTURAL EXPERIMENT STATION OF IND.

LAFAYETTE, IND., Feb. 24, 1892.

EDITOR AMERICAN FLORIST.—This experiment station is much interested in experimental work bearing upon diseases of ornamental plants and is already, as you are aware, conducting researches in that line

The violet disease discussion in your columns has attracted considerable attention, but there seems to be considerable diversity of opinion upon the matter. We have not been able to secure specimens of diseased plants for examination and experimental purposes. I wish that you would please state in the columns of your journal that we desire very much to secure specimens of diseased violets for study here, consequently I take the liberty of requesting all violet growers having diseased plants to send three or four plants to this station for examination and propagation. We would very much appreciate the favor of receiving such specimens. Plants may be sent to my address, expenses collect. By thus sending us specimens violet growers will be contributing to a work which is intended for their own ultimate benefit. Very truly yours,

C. S. PLUMB, Director.

THE Michigan State Horticultural Society held its winter meeting at Port Huron, Feb. 17 to 19.

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A Chance to Triple your Money.

NOW READY. (Safe Arrival Guaranteed.)

50,000 ROSES, from 2-in. pots, $3 per 100; $30 per 1000.

Plant in 3 inch pots, and they will bring you from 10c to 15c each readily.

50,000 ROSES, from 3-in. pots, $5 per 100; $50 per 1000.

Plant in 4 inch pots and they sell readily from 20c to 25c each.

N. B.—Our stock is not forced nor are the plants long and drawn, but have an abundance of leaves and roots.

Varieties you can select from by the 100 or 1000, provided one or the other sorts is not sold:

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Catherine Mermet,
Coquette de Lyon,
Hermosa,
Etoile de Lyon,
Gloire de Dijon,
Jules Finger,
La France,
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Marie Guillot,
Malmaison,
Marie Van Houtte,
Miss Ethel Brownlow,
Mme Caroline Kuster,
Marechal Niel,
Mme. de Watteville,
Mme. Pauline Labonte,
Mme. Brett,
Mme. Abel Carriere (M. Noisette),
Mme. Jos. Schwartz,
Mme Laur Marring, (pure new Bengal),
Ophelia,
Perle des Jardins,
Queens Scarlet,
Rubens,
Suzanne Blanchet,
Bombrouil,
The Bride,
Reine Olga,
Pink Daily,
Nic de Wautier,
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We also have **50,000 HYBRID ROSES**, strong, 2-inch pots in 25 best leading sorts, $5 per 100; $50 per 1000

20,000 4-INCH POT ROSES, $10 to $20 per 100 according to variety and quality.

POT ROSES, in bud and bloom, $20 to $25 per 100.

Wholesale and Retail Catalogue upon application. Lists cheerfully priced and samples mailed if desired

FOR EVERYTH'NG IN THE FLORIST LINE.

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THE NEW ROSE OF 1892. "THE BEST YET."

THE HUGH.

(The entire color is Pink; never bleached.)

"The consort of The Bride."—*Littlejohn.*

Perfect in growth and behavior.

From 2-inch pots.				From 4-inch pots.	
12 plants	$ 9.00	250 plants	$ 93.00	1 plant	$ 1.50
50 plants	25 00	500 plants	150.00	12 plants	15.00
100 plants	40 00	1000 plants	240.00	25 plants	25.00
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Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

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From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and Duchess of Albany, at $5.00 per 100; Meteor, at $6.00 per 100; American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

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leading varieties, 2½-inch pots, $5 per 100.

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ALL FINE HEALTHY STOCK.

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A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

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Wichuraiana Roses. Every lover of plants must have these and other Novelties which we shall have ready for delivery in April. Descriptive catalogue of these and of an unsurpassed stock of Trees, Roses, Rhododendrons, Rare Conifers, Choicest Perennials, etc., sent free.

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FINEST STOCK FOR FORCING IN THE NORTHWEST.

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5,000 1 year old, 2½ to 3 feet high, well branched, $15.00 per hundred.

1,500 2 year old, 3 to 4 feet high, $18.00 per hundred.

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ROSES, CARNATIONS, VIOLETS,

Bouvardias, Chrysanthemums, double white and single Primroses, Echeverias, Alternantheras, Smilax, Coleus, Begonias Poinsettias, Cyclamens, Adiantums, Geraniums, Fuchsias, Pandanus Veitchii, Ferns, Hydrangeas, Palms, Dracænas, etc. Healthy plants; large stock, and low prices. Best new and old varieties. Write for price list.

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ROSA WICHURAIANA and CLEMATIS PANICULATA

are two of our Specialties. Very fine stock. See our **WHOLESALE TRADE LIST now ready.**

If you have been missed, drop us a line.

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JACOB W. MANNING, Prop.,
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DRACAENA INDIVISA RUBRA.

New, rich brown-red foliage, quick grower, and the best of the whole tribe.

Small pot plants, 1 ft. high, that will grow to good specimens by fall, at $10.00 per 100.

Also the **GREEN VARIETY**, same size, from flats, at $4 00 per 100.

DENYS ZIRNGIEBEL, Needham, Mass.

SPECIAL OFFER. Per 100

Var. Rose Geraniums, 2½ inch	$ 5 00
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February 29 to March 5 inclusive.

Respectfully,

PITCHER & MANDA,

SHORT HILLS, N. J.

TIME TABLE FROM CHRISTOPHER OR BARCLAY STS., NEW YORK, D. L. & W. R. R.

Trains marked with an asterisk (*) are Express trains with special cars from New York to Short Hills and from Short Hills to New York.

From New York.		To New York.	
Leave New York, Christopher or Barclay Sts.	Arrive Short Hills.	Leave Short Hills.	Arrive New York.
7 30 a. m.	8 34 a. m.	9 00 a. m.	10 00 a. m.
7 50 "	8 54 "	9 50 "	11 00 "
8 30 "	9 47 "	10 20 "	11 30 "
*9 00 "	*9 58 "	10 55 "	12 00 m.
10 10 "	11 17 "	12 14 "	1 20 p. m.
11 10 "	12 19 p. m.	1 44 p. m.	2 40 "
*12 00 m.	*12 58 "	3 00 "	4 10 "
1 30 p. m.	2 37 "	*3 38 "	*4 40 "
*2 20 "	*3 17 "	5 05 "	6 10 "
2 30 "	3 39 "	6 25 "	7 30 "

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Thirty minutes from London.

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Surplus stock, in 10 showily flowered, easily grown varieties. Strong, clean.

100 PLANTS FOR $25.

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Established and Fresh Imported—Specially Cattleyas; very useful for cut flowers, at greatly reduced prices.

Best quality of Orchid Peat. Write for price list.

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Genista Pubescens.

2½-inch pot plants, $10.00 per hundred.

This variety began blooming with us on Jan. 10th, and we think it can be had in bloom Jan. 1st. No enterprising florist should be without it.

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TUBEROUS BEGONIAS, Seeds and Bulbs.

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Half packets if desired. Send for new descriptive catalogue.

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ROOTED CUTTINGS of the finest varieties in cultivation, at $2.00 per 100; 10c. per 100 extra when ordered by mail. NOW READY.

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Wm. H. Lincoln
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Pelican
Mrs. Alpheus Hardy
Fair Maid
Mrs. Humphrey
Mt. of Snow
White Eve
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John Sherman
L. B. Bird
Mrs. Meredith
President Arthur
Ada Spaulding
M. Boyer
Porcupine

RED.

Cullingfordii
E. G. Hill
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JAMES HORAN, Florist,

BRIDGEPORT, CONN.

COLEUS

Are all ordered to March 20. **Cause:** A 1 Cuttings and advertising. Will take orders to fill after above date.

Mums and Fuchsias.

I have a nice batch in benches, rooted and ready to ship.

SEND FOR PRICE LIST.

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THE GREAT SPECIAL SPRING NUMBER OF THE AMERICAN FLORIST MARCH 10. 1892.

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By the.....Hundred
By the.....Thousand
By the.....Ten Thousand

Write me for prices.

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100 varieties, all different, pot grown, $2.50.

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We will have ready March 15, Seedling plants of above in colors, red, pink, salmon, yellow, white, at $3.00 per 100. Mixed, $2.50. Double ones later, at $5.00 per 100. Separate colors, finest strains.

Tubers all sold, except red and some double ones of all the colors, only few whites.

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CUT FLOWERS IN SEASON,

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And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist. Send for Catalogue.

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Association Flora, Boskoop, Holland.

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25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other

PLANTS FOR FORCING AND DECORATING.

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2000 Begonia Gloire de Sceaux, $10 per 100
100 Begonia Manicata aurea, $16 per 100
50 PALMS, Areca lutescens, 3 feet high, 4 to 5 leaves, $1.25 each.

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I send you a description of a new rose pot. The smallest size used in potting off cuttings from propagating bench is 3½ inches across top, 3 inches across bottom, 1½ inches deep, perforated with four holes in bottom. The advantage over the deep and narrow pots called rose pots are, first, in the growing of plants for forcing, the roots spread out more than they do in our present rose pots and are not injured by transplanting in shallow soil in beds, the depth of soil in bed being 2 to 3 inches; second, there is no necessity to tear away the soil from plants and thus injure the roots, as we do in our 3, 4 and 5-inch pots, called standards; third, being broad on the surface they have more benefit from the sunlight; fourth, being shallow the soil is not liable to become sour; fifth, they drain off surplus water more readily. I have tried them in a small way and have found them preferable to the deep and narrow so-called "rose pots." D. W. FOWLER.

Wabash, Ind.

Red Ants and Cockroaches.

In answer to F. G. I would say that I had several large colonies of ants located in my greenhouse and I treated them to a good sprinkling of dry snuff in and around where the ants frequented and in a very short time none were to be seen, neither was I troubled with them afterward.

Cockroaches may be killed by mixing together one part dry oatmeal to three parts dry plaster of paris and well sprinkle the dry floor at night where the cockroaches frequent.

G. M. STRATTON.

San Francisco, Cal.

American Carnation Society.

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Mr. Fred Dorner, Lafayette, Ind., registers Mme. Diaz Albertini, light pink, large and full; Mrs. Elizabeth Reynolds, large pink with long stems; Richmond, dark rose deeply fimbriated, large and good; Esther, light pink similar in color to Daybreak; Blanche, white, large flower on good stems; Spartan, brilliant carmine, large flower on long stems; Wabash, crimson, large flower with good stems; Lafayette, carmine, very large and full, long stems

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We have about 2000 best varieties, in 3 and 4-inch pots; will book orders till March 15th, at $10 per 100.

The World's Fair will give this class of stock such a boost that no florist can get along without them.

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Prices Greatly Reduced.

CAPE COD PINK POND LILY.

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Blue Water Lilies Very Cheap.

NYMPHEA ZANZIBARENSIS, the Blue African Water Lily, grown and will be shipped in 2½-inch pots, fine plants at $25.00 per 100

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EULALIA JAPONICA ZEBRINA, } 25c. each

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100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

—NO RUST OR MILDEW.—

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

Special Attention.

First Importation of the Season of 100,000 pounds of

CYCAS REVOLUTA,

in sizes from 6 inches to 6 feet, guaranteed to be the only TRUE LONG-LEAVED VARIETY, which for beauty in foliage is far excellent to any of its kind; fast becoming a most favored Palm, highly recommended by most leading nurserymen and florists.

By weight, fronds and roots cut off.

Price, not less than per 100 lbs. $10.00. Per 1000 lbs. $85.00, f. o. b.

Extra inducements on larger lots.

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Per 100 shoots, from $25.00 to $40.00.

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Strong, healthy plants of La France, Mermet, Bride and Watteville, 4 inch pots, $5 00 per 100; $40.00 per 1000. 2½-inch pots, $3 50 per 100; $30.00 per 1000.

CARNATIONS.

Hinze's White, Portia and Grace Wilder, from 2½-inch pots, $2.50 per 100. Rooted Cuttings, $1 00 per 100.

ROOTED CUTTINGS.

Heliotrope, $1.00 per 100; from 2½-inch pots, $2.00.	
Ageratum, white and blue, Alternantheras, Coleus and Gnaphalium lanatum, Sweet Alyssum,	75 cts. per 100; from 2½ inch pots, $1.50.

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R. GARRETT,

Is a sport from Count Brazza, of a light blue color, very large and very double; a strong, healthy grower.

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All orders must be accompanied by cash.

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GROUND ROOTS, good varieties, mixed Single and Double. Price, per 100 $4.00.

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	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30 00
" " Rooted Cuttings	1 25	10 00
General Collection, stock plants	3.00	25.00
" " Rooted Cuttings	1.00	8 00
Lemon Verbenas, 1 year old, strong	6.00	
SPECIALTIES IN ROOTED CUTTINGS.		
Coleus, old standard and new fancy sorts	1.00	8 00
Feverfew (Little Gem), extra strong	2.00	15.00
Salvia splendens, extra strong	1.50	12 00
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Ageratum, blue and white	1.25	10.00
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Begonias, assorted, fine	2 00	
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ALTERNANTHERA P. Major and Aurea Nana, 50 cts. per 100.

AGERATUM White Cap and Cope's Pet, 50 cts. per 100, by mail prepaid.

OTHER STOCK LATER.

Don't order more PETUNIAS and VERBENAS until quoted here.

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For HEDGING. $5.00 per 100.

AZALEA AMŒNA

$3.00 per dozen. All kinds of

Ornamental Nursery Stock.

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THE GREAT SPECIAL SPRING NUMBER OF THE AMERICAN FLORIST MARCH 19. 1892.

CARNATIONS.

Send for trade list of ROOTED CUTTINGS.

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CARNATIONS

Rooted Cuttings, 50,000 now ready of the following varieties:

Silver Spray, Hinze's White, Mrs. Fisher, Jeannette, Portia, Grace Wilder, Fred Creighton, Anna Webb, and Century,

$1.00 per 100; $10.00 per 1000.

Hector and Florence, $2.50 per 100, American Flag, $2.00 per 100.

Fuchsias, finest varieties	$ 1.50 per 100
Heliotrope	1.00 "
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Also a pink Carnation named "**DORINDA,**" a seedling of 1888—one of the best.

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NEW WHITE CARNATION.

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PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:

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ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.

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NOW READY.

New and Standard sorts, all grown from fine healthy stock. Send for price list.

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For March trade I have prepared large quantities of Carnations, Lizzie McGowan, Mrs Fisher, L. L. Lamborn, Hector, Grace Wilder, Christmas, Anna Webb and others.

Also a very choice assortment of **COLEUS.** LANCASTER BEAUTY is the finest novelty in Verbenas ever offered; entirely distinct from all others. It sells at sight and no florist can afford not getting it. Perfectly clean well rooted cuttings $2.00 per 100. I have complete control of the stock, which is limited.

SMILAX AND PANSY season is soon here and I am headquarters for choice stock at low prices.

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Wm F Dreer, magnificent fringed rose pink; Nellie Lewis, light pink streaked with darker hue; $3 00 per 100; $25.00 per 1000.

IMPROVED Grace Wilder, the standard pink shade; $2.00 per 100; $15.00 per 1000.

Price of all other standard varieties on application. For well established plants from small pots see illustrated catalogue, mailed free

Best home grown Double Excelsior Pearl Tuberose bulbs, $8 00 per 1000 by express.

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Nancy Hanks.

The "Unbeaten" Carnation to date.

Cross between Century and Grace Wilder. Is a stronger grower than the former, and of a pleasanter salmon color than the latter. Has sold higher this season on the market than any bloom, save Buttercups.

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Carnation Cuttings.

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PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN,** besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
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WHEREAS, Parties in the trade, contrary to agreement and general understanding, and in violation of the principles of business honor and integrity, are offering, and selling, rooted cuttings of Lizzie McGowan Carnation at a much less price than they agreed to so offer and sell the same. And

WHEREAS, I have the largest, finest, and healthiest stock in the country of this superb carnation, therefore, be it

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H. E. CHITTY.

Paterson, New Jersey, Feb. 10, '92.

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Send a postal for our complete list of

CARNATIONS,

Including DAYBREAK.

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	Per 100	Per 1000
HINZE'S WHITE	$10 00	$1 25
PORTIA	12 50	1 50
GRACE WILDER	12 50	1 50
SILVER SPRAY	12 50	1 50
LAMBORN	15.00	1.75

Cuttings put in Jan. 1, on Feb. 8 **99 per cent. were well rooted.**

DE WITT BROS.,

Cash with order. **BRISTOL, PA.**

Transatlantic Enterprise.

The following is a clipping from the enquiry column of an English horticultural journal. It is difficult to decide which is the most delicious, the question or the answer. On the whole we think we get more real fun out of the answer:

FLOWERS FOR PROFIT.—Would you kindly tell me what would be the best kinds of plants to stock a small greenhouse, size 4 feet by 3 feet 4 inches, and 6 ft. high at the back, sloping to 4 ft. 9 inches, facing west, with a brick wall on the south and east sides, so as to make a little money? I have bought some mosses, but did not get the name. Would you tell it me; also the name of the other, No. 3?—BLACKPOOL.

[We fear you cannot make any appreciable amount of profit from such a small house; and, as we have no idea of your skill as a cultivator, we can scarcely tell you what to grow. Some persons could grow several tea roses and sell the blooms. Others would strike fuschias, pelargoniums and other plants suitable for windows, also raise ferns and sell them to their friends. It is a question of individual aptitude and perseverance. Such dried scraps as you have sent are quite insufficient for identification. See the notice under "Names of Plants."]

Ants.

If your correspondent F. B. has never tried the following, I can recommend it as having proved effective with me whenever used: Take some "Coeters Rat Exterminator" and mix it well with some ordinary gum arabic mucilage; spread it on sheets of paper and place it in the runs of the ants and you will find that they have "come to stay." A. J. LOVELESS.

I see in the FLORIST a request for a cure for red ants. I will give a *sure cure* for ants, red, white or black. Get five cents worth of tartar emetic, mix with sugar and water and place in saucers where they are troublesome. I have never known it to fail, it is a *sure cure*.

J. R. B.

I place fresh bones among my plants and when the ants cover these, preferring them to the plants, I destroy by dipping in hot water. C. H. GLEASON.

Seneca Falls, N. Y.

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ADVANTAGES OVER OTHERS IN USE.

1st.—They have a wooden ball that can be adjusted to the basket as easily when filled as when empty, by inserting a wire from outside, without disturbing the plant.

2d.—All balls are formed when shipped, causing no breaks or bending while adjusting.

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Packed in best manner and delivered to Express or R. R. free of charge on receipt of proper remittance.

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French Immortelles at $3 00 the dozen for natural yellow; $3.60 for white and other colors, less ten per cent. for cash.

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	Per 100
5,000 Silver Maple 6 to 8 feet	$15.00
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5,000 Spiræas Prunifolia, Bilardii, etc., 3 to 3½ feet,	5.00
30,000 Peach Trees 3 to 4 feet, $25 per 1000	
20,000 Grapevines, at low figures.	
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	Per 100	Per 1000
SMILAX, 2½ inch pots	$1.50	$12.00
Rooted Cuttings CHRYSANTHS, ready March 1st.	2 00	15 00
AMPELOPSIS VEITCHII, 3 in. pots, strong, at	5 00	

Address **J. G. Burrow,**

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I offer my superior strain of Aster Seed for sale for the first time. White, pink, and mixed white and pink. Trade pkts. $1.00. The stock being limited all orders will be filled in rotation as they are received.

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Pittsburgh, Jan. 20, '92.

MR. JAMES SEMPLE, Bellevue, Pa.:

I consider your Asters "Mary Semple" and "Semple's White" the finest strain without exception, that I ever saw. Yours truly, N. PATTERSON.

Allegheny, Pa., Jan. 30, 1892.

MR JAMES SEMPLE, Bellevue, Pa:

We can tell every florist in the country it is the best Aster in cut flowers for florists' use; has long stems and in good colors. LUDWIG & RICHTER.

Allegheny, Feb. 1, '92.

After years of careful selection of the most perfect flowers of Asters saved for seed, Mr. J. Semple has brought this fine strain of Asters up to perfection. The fine perfect flowers, long stems and delicate colors make this a perfect gem of Asters. As I have seen them growing in the field must pronounce them the finest sight that ever came to my notice of Asters. WALTER HARVEY, Florist.

"Decidedly the best Aster we have seen." AM. FLORIST, Sept. 24, '91, page 141.

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Second to none, the largest in New England.

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Eucharis Amazonica.

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Nymphæa Scutifolia	pkt. 25 cts.
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Nymphæa Zanzibarensis, seed saved from the true purple variety, sown now will furnish flowering plants this summer	pkt. 25 cts.; 5 pkts. $1.00.

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BOUVARDIAS, 3-inch pots, strong	$4 00 "
FORCING ROSES, strong	$5 00 "

REX BEGONIAS and DOUBLE YELLOW OXALIS.

McCREA & COLE, Battle Creek, Mich.

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Demands all our growing capacity, we have therefore decided to close out our entire stock of plants this season. We start the ball rolling with the following. Speak quick if you want them:

	Per 100
1000 Dracæna australis, 4-in. 18 to 24 inches high	$20.00
500 ditto, 5 to 8-in. 2 to 3½ ft. high.	50.00
10,000 Tuberous Begonias, from the finest collections in Europe	8.00
2000 Cannas, Crozy's hybrids	5.00
2000 Dahlias, best varieties; clumps	8.00
" " " single roots	3.00
Hibiscus grandiflora, 3-in.	4.00
" " 4 and 5-in.	8.00
English Ivy, 2 to 4 ft. high	8.00
Clematis, all the best vars., large heavy stock, pot grown, in 8-in. pots	60.00
Aucuba japonica, fine bushy plants, 2 to 3½ feet high, well colored, 9-inch pots	$1 each.
5000 Vincas, variegated, fine plants, 4 and 5-inch	8.00
5000 Echeveria rosea, 2 to 4 in. in diam.	4.00
Calceolarias, elegant strains, 4-in.	6.00
10,000 Hollyhocks; this lot embraces three of the finest European collections; separate colors	4.00

Window Boxes, well made, in assorted sizes as follows: 24-in., 30-in., 36-in., 40-in. and 48-in., painted complete, ⅞-in. lumber, 1c. per lineal inch.

This stock has been grown for the Retail trade—you know what that means. F. O. B.

JOHN IRVINE CO.,
BAY CITY, MICH.

NOTE.—The above adv. will not appear in its present shape after this date, as the stock is being rapidly depleted, and we want to call your attention to other things; therefore put this issue of the FLORIST where you can find it. Since the advent of the above adv. we have sold 3,000 Vincas, all our Aucuba japonica, 4,800 Tuberous Begonias, 450 Dracænas, 600 Clematis, 4,700 Hollyhocks, 1000 Cannas, 700 Hibiscus, 2,300 Echeveria. Lookout next week for some bargains.



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PRICE OF PLANTS, 10 to 20 inches high:—

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Send 2c. stamp for price list and catalogue.
SCHMID'S FISH AND AQUARIUM DEPOT.
No. 712 12th St. N. W., WASHINGTON, D. C.

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As to shading greenhouses, I find white lead made thin with naptha and sprayed on with a syringe, to answer every purpose, as a shade. In the fall on a rainy day it can be washed off very quickly with a long-handled brush and a little concentrated lye in water.

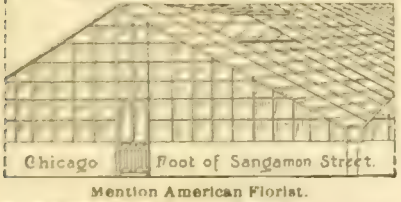
For protection against frost, I use outside board shutters, made of half-inch spruce, three feet by six feet. They are easy to handle, save their cost in coal every month and give a feeling of cosy warmth in the houses not attained in any other way.

For partial shade lattice made of mason's lath, with one wire nail at each end of a lath, the laths running only one way and parallel; this sort of lattice gives a shade which can be regulated by moving the slats more or less toward a diagonal position to the end laths. R. FERRIS.

[The plan of protection by board shutters might do for one or two greenhouses, but for the average commercial establishment, and where houses adjoin one another, it would be hardly practicable. We are assuming that the shutters are placed on the roof by hand and securely attached, for if not well secured to the roof, they would be dangerous on windy nights—and it is on windy nights that we need them most.—ED.]

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2¾ "	"	4.00	7 "	"	3.50
3 "	"	5.00	8 "	"	5.00
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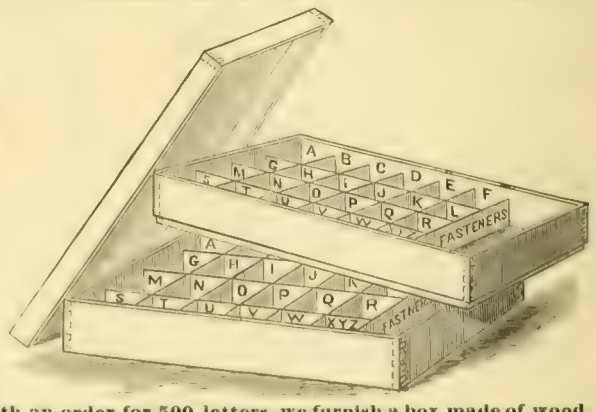
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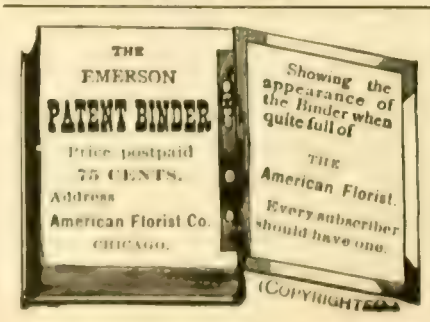
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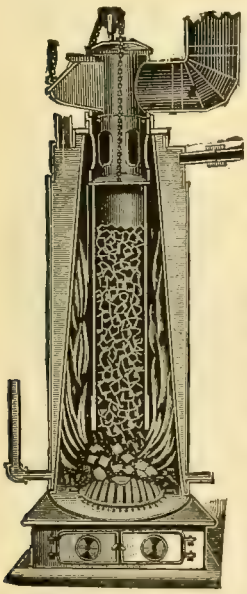
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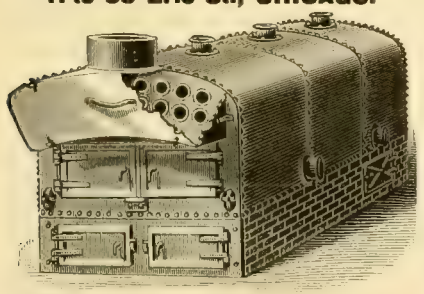
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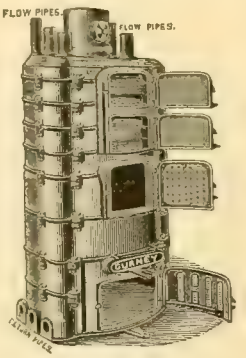
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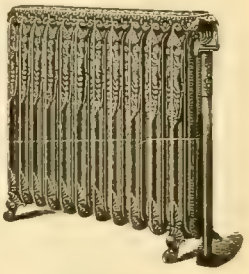
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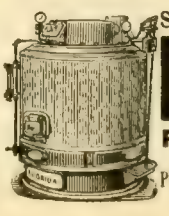
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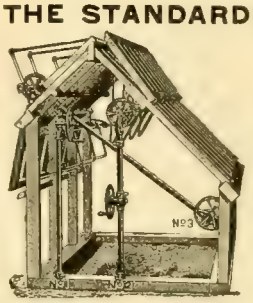
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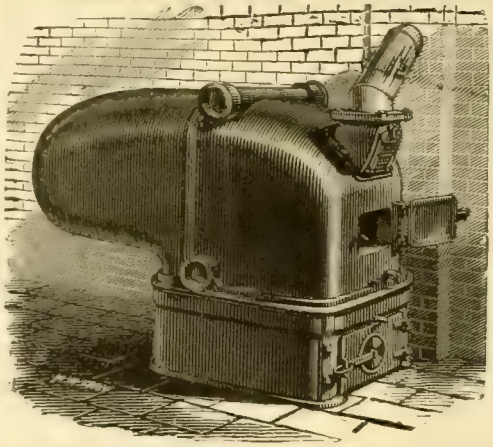
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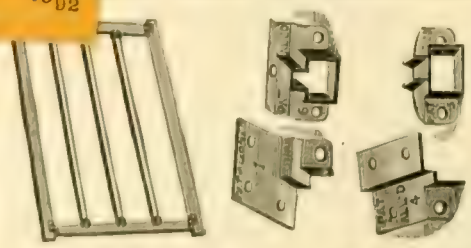
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WE THINK this issue may safely be called a mirror of the trade in America at date.

THE THEORY OF DESIGN IN DECORATION

I.

It has been suggested that I should give the readers of the AMERICAN FLORIST some practical suggestions for floral decorations, based upon the theory of design.

Nothing is easier than to give suggestions and perhaps nothing is more difficult than the attempt to carry them out. It is at once a question of practicability. Theories are sometimes apt to be impracticable, yet there never was one which did not prove itself to be a stepping stone over impassable ways to the solid ground of truth. If the artist is safe in the following of certain principles of design the florist will be likewise safe. Differences of opinion in regard to the force and value of these principles will in no wise nullify them, and he who casts them aside is like the mariner without sun or star; he travels on dead-reckoning, incurring immense risks.

I will try to explain simply what these principles are, but it must not be forgotten that they are always subject to modification by circumstances.



FIG. A.

If one should say to me: "Here are smilax, roses, pinks, laurel and azaleas, and yonder are doors, windows, chandeliers, mirrors and vases, now what is your advice for combining all these things into a unit of artistic effect?" I should answer: "Try to use them simply and naturally."

Naturalness and simplicity are two fundamental principles of all good deisgn. It is a mistake to believe that the artist creates by the aid of complicated rules; his best work is always characteristically spontaneous and simple.

The point where failure begins is that marked by an attempt to overdo matters. It is not impossible that an abundant use of flowers and greens in decoration may result in the worst possible taste, for no other reason than the fact that such an abundance may tempt the decorator to crowd, confuse and thus ultimately destroy all refined artistic effects.

A wreath hung in one part of the room may be exactly proper and artistically perfect; another hung somewhere else to *balance* the effect will destroy every element of success in the decorator's work. The little festoon under the title of this article, though conventional in type, will show what the florist can do in a simple bit of *balanced* decoration. Figure A, which is the same idea rendered still more conventional, shows how far we may carry exact symmetry with perfect good taste. These festoons are admirably adapted to the decorations of Colonial houses. But to look well they must be made in the proportions given in the sketch (note the dotted lines).

It is a faulty idea to suppose that any good decorative work must preserve a certain exact balance either in its details or in its prominent points. Nothing is so unnecessary as this to perfect art. Whatever there is of value in balance of design I will have something to say about later on. But at present it is the *last* thing we need to bother our heads about.

Open spaces or plain undecorative surfaces possess an absolute value in decorative art. If every space and every wall is completely filled up with ornament (whether floral or not) there is no rest for the eye any where; and the impression conveyed to the mind is sure to be confused.

The arrangement of contours and lines is a matter needing the utmost care. All lines are of special value in the definition of certain spaces which the decorator wishes to emphasize in his scheme of ornament; whether curved or straight they should not intersect each other, unless for the purpose of producing certain relative ornamental spaces. The indiscriminate crossing of curved lines is sure to produce an impression so confusing that the eye can not follow any single graceful curve (see Fig. C).

Passing now from these general principles to some of the conditions which surround the florist, especially in his work of decorating rooms, we will presently see where we may apply such principles with advantage. I would *not* cross the surface of a mirror by any festoon. This is a matter of opinion and not one of principle. The value of a mirror lies in its ability to double space and quantity. A festoon cutting across it will double quantity where we do not want quantity doubled, besides interfering with an effect of space which we wish retained. Such



AROUND A MANTEL MIRROR

FIG. B.

an intersecting line would interfere with perspective which we should be careful to preserve, particularly in a moderate sized room which is to be filled with company.

If it is possible to place a large handsome vase of flowers where the mirror will reflect it such opportunity ought not to be neglected. And the skillful arrange-

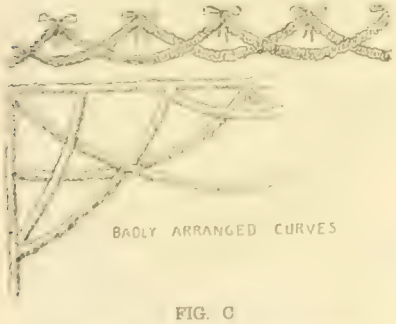


FIG. C

ment of his flowers by the decorator in a position opposite a large mirror will prove no small element of success in his decorative scheme.

Sometimes a solid, unbroken background of laurel leaves extending over a good portion of one wall in a room will produce an astonishingly rich effect, and columns or posts twined with green interspersed with white, yellow or pink blossoms will always look dainty and fresh if the green is not scrawny and the flowers substantial and evenly distributed. A mantel over which a large mirror is set is a splendid chance for doubling the effect of flowers in a mass; pansies, primulas or violets may be bedded on the shelf with charming results, but by no means is it ever advisable to mass such flowers solidly without their foliage.

The outlines of the mirror may be followed in a free or severely straight line by whatever green is near at hand; and at only *one* side a vase containing a naturally disposed group of tall stemmed flowers will complete the artistic appearance. The illustration B will show in a rough fashion about what the arrangement of different groups ought to be. A may be a tall vase of roses; B will be a group of straight stemmed flowers like the carnation or narcissus; C should be violets or some similar flower; D should be an accented part of the same group, and from E to F a trailing vine like ivy should help out the line effect by a few curves. Around the mirror any graceful green like smilax may be trained. Thus the mirror will reflect uninterruptedly everything opposite and the number of blossoms about it will be apparently doubled.

It is unnecessary to say that any arrangements like the following will not do as well artistically. It is always advisable in a decorative scheme that there should be a well defined motive which is best expressed in color effects. Thus the predominence of pink, yellow, lavender or blue, or of certain flowers like the rose, sunflower, violet and lilac will produce an impression on the mind at once unique and permanent.

The unity of such color effects is charming, and it must be remembered that the florist needs every possible accessory to help him in his art. Ribbons of satin, fairy lamps, candles and candle sticks (silver if possible) and certain colored vases and draperies are all essentials in the success of his color scheme, and it is perfectly just to say that the public is

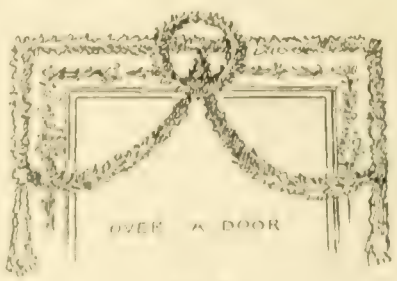


FIG E

quick in appreciation of any attempt made by the florist to follow out an æsthetic idea.

The use of delicately colored tissue paper for accentuating the color effect is a great help in a wide scheme of decoration. The tying of festoon ends with glossy ribbons harmonious in color; the nice adjustment of colored artificial light over a group of queenly roses; these are all the properties of the florist decorator. Then, too, in certain times of the year the florist should take advantage of materials in season. For instance, wheat, hops, maize and autumn leaves.

Figure D is an arrangement of a doorway for some autumnal occasion. Autumn leaves, bitter sweet, chrysanthemums and Indian maize are capable of producing a fine effect together. A little ingenuity, a few fine specimens of maize stalks, plenty of laurel leaves, some yellow chrysanthemums, and if possible some well dried bitter sweet—these will astonish one with their artistic possibilities. We need to get away as far as possible from the conventionalities of custom; and such an arrangement as that in Fig. E, though good, is less desirable than that in D.

There are other arrangements which are thoroughly good, but they will require considerable space and attention, and we must reserve their discussion for a later issue. F. SCHUYLER MATHEWS.

Covering up the Stumps of Trees.

I had this photograph taken to show your readers how easy it is to render an unsightly old stump of a tree quite pretty by encasing it in a covering of vines. The old trees (2), as you will readily perceive,



FIG D.

are red cedars (Juniperus Virginiana) and the vines used to encase their trunk are Ampelopsis Veitchii, two years planted. The ground they are in is good, to be sure, but just see what can be done in this way in a couple of years! Now, if you are a local florist and had a stump about your place covered up with vines in this way, don't you think that old stump would sell a good many plants of ampelopsis for you? Show it to your customer and let his own eyes convince him that he needs just such vines as they are and just for such a purpose.

In the same way we use several other vines such as Ampelopsis Roylei, which is like a major Veitchii; also the climbing hydrangea and schizophragma and Decumaria barbara. In sheltered shady places a few of the hardier ivies (Hedera) are also used.



1 2 3 4

COVERING UP THE STUMPS OF TREES.

Referring again to the illustration, the long needled pine tree (1) to the left is Pinus excelsa, the Bhotan pine and one of our handsomest evergreens for a sheltered nook; (3) represents the tip of a large triangular bed filled with the white day lily; (4) is quite a pretty specimen of Picea Smithii or morinda, as it is also called, a handsome spruce tree from the Himalayan Mountains. WM. FALCONER.

Adiantum Capillus-Veneris.

This useful fern seems to be very little known among growers, though one of the easiest grown and most useful of all the adiantums.

We have on the place here a piece of bench 4x20 feet which was planted with this fern seven years ago and it is now a solid mass of crowns—originally 80 plants. This bench has paid us better for the labor and outlay than anything else we have ever grown. During these seven years the house in which the ferns are growing has contained various crops requiring radically different treatment, but the ferns have kept on growing and furnishing the daily supply of beautiful dark green fronds, 12 to 18 inches in length, summer and winter without intermission.

They stand watering with the hose and tobacco smoke with impunity.

Compared with A. cuneatum it is more easily grown, adapting itself more readily to adverse conditions, and its keeping qualities after cutting are far superior; on the whole a much better paying sort to grow. Those who are compelled to grow a mixed lot of plants in one house will find this fern very useful, for the conditions most advantageous for geraniums, fuchsias, etc., suit it to a dot.

Bay City, Mich. JOHN IRVINE.

ROSES

Eel-Worms in Roses.

During the past few months there have been many complaints on the part of rose-growers because their plants failed, or partly failed, to produce a healthy growth and a good supply of blooms. While there are several causes for this sad state of things one of the leading reasons for distress is a microscopic worm that works principally at and in the roots.

These worms are in form like that of an ordinary eel and under the microscope are seen in almost constant motion. They cause an enlargement of certain portions of the roots, which swellings are sometimes called galls. These galls or knots are easily detected with the naked eye when a plant is removed from the soil and carefully washed of the adhering earth. The engraving is designed to show the general appearance of a portion of a root of a rose that had sickened from the inroads of these worms. As the minute animals are not unlike the worms found in vinegar they are sometimes spoken of as vinegar eels. The term nematoids is also given to them, but whatever the name they go by there is no doubt of their injuriousness.

The point that most interests rose-growers is how to get rid of the pest. In order to do this it will be of much assistance to know where the worms come from, how they propagate and get into roots of the infested plants. These eel-worms are much more abundant than generally supposed and it is only when they get numerous that their mischief becomes apparent. In looking up the subject of tomato blight in the south last spring it was observed that the tomato plant was, almost without exception, more or less affected with the root-galls; and the same is true for a large list of plants both herbaceous and woody. The nematoids, are as a rule, much more abundant in warm climates than elsewhere, and the unusual abundance of these pests in nothern gardens for the past two years is likely due to the lack of freezing of the soil.

The greenhouse furnishes the proper conditions for the propagation of the eel-worms provided they are there to begin with, this naturally raises the question of how they first got into the bed. This may be in one or more of several ways. They may be already in the roots of the plants, but in small numbers, when the plants are placed in the house. To guard against this the roots should be examined as closely as possible for the galls when the beds are set. All galled roses (and violets as well) should be excluded. The nematoids may come in with the earth. As before stated the worms infest a large number of kinds of plants and it is an easy matter for them to come with the soil. Soil that has not been used for growing plants in the garden is not necessarily free, but may if taken from a pasture or meadow contain many nematoids. Then again they may be taken with the manure that is used.



ROOTS OF A ROSE INFESTED WITH EEL-WORMS.

Just what may prove to be the best precautions remains for the practical rose grower to determine. Cold in excess will probably destroy the worms and likewise a high temperature is inimical to them. Both of these conditions may be impracticable to apply to the soil, the one being impossible in some cases and the other too expensive. Rose growers might make the experiment of heating the soil of a small portion of the bed before setting the plants and satisfy themselves if such a treatment will pay. If manure is the chief vehicle of the worms it may be possible to grow roses without so much of this constituent of the rose soil. It may be that roses can be grown with a formed soil to which all the necessary elements of plant food have been added in the form of commercial fertilizers. It may be however that the pampered rose will not perform her part unless fed in the ordinary way to which its ancestry has been accustomed.

The fact is that the worms are doing much damage and when they are once in a plant there is no known way of driving them out. New conditions may induce the formation of new roots and a sickened plant may revive but this is not to be expected under such circumstances.

It is possible that some substance may be put upon the soil that, while not injuring the roses may kill the worms not already in the plants. Lime has been thus used and with favorable results. Sprinkle the lime upon the surface of the bed or better mix it with the soil and each watering will tend to bring it in contact with the tender bodies of the worms. It is not unlikely that some of the fertilizer compounds may be found that at the same time they furnish food for the plants will deal a death-blow to the nematoids. Kainit may thus prove an efficient remedy and it only remains for some enterprising rosarian to take the matter in hand and demonstrate the truth or falsehood lurking in the suggestion. It is easy to obtain and apply and the amount to use must be determined by trial. This an age of experimentation; therefore experiment.

BYRON D. HALSTED.

N. J. State Exp. Sta. New Brunswick.

WE ARE advised that Mr. F. L. Moore has changed the name of his new rose from "The Hugh" to "The Bridesmaid."



HOUSE OF ROSES FOR SUMMER BLOOM.

Summer Roses.

The demand for high grade summer roses is annually on the increase. From the middle of June to October, as a rule, the supply of roses is decidedly limited and what there are to be had are of only moderate quality. Roses that force well during winter may not prove desira le for summer bloom, and vice versa. Brides and Mermets are a good instance of this rule. In summer heat Mermets are small and Brides are apt to be spotted and malformed. La France is the ideal summer rose for pink, Cornelia Cook for white, while Perle and Sunset are both first class in every respect. Provided Perle and Sunset could be equally well relied on for winter forcing there would be no need of looking farther in this line of color, but in the dull days of winter one sighs for a golden Mermet. Aye, and a crimson Mermet wouldn't be bad either! When these two roses put in an appearance what a scramble there will be for stock! I should not be surprised if that in the over-propagation resorted to even *root* cuttings would be made and possibly both varieties lost altogether, illustrating the old adage, "haste makes waste." However, one need not worry, sufficient unto the *evil* is the day thereof!

For summer roses grow Perle, Sunset, M. Niel, Niphetos and other half hardy sorts together in one house, with just enough heating capacity to keep out severe frost. La France, Cornelia Cook, Am. Beauty, Meteor and others require no fire heat in winter, yet it is advisable to have some heating surface, for occasionally even in summer a little judicious firing will give better buds and protect from mildew in a protracted spell of cool damp weather. Houses for summer roses can be built much cheaper than for winter forcing—no side light required. An equal span roof is to be preferred and with continuous ventilation, but don't give even summer roses pneumonia with too severe draughts.

I have several houses 13x100 feet and one, now in the process of erection, 26x370 feet, side walls 4 feet, ridge 10 feet. A house 26 feet wide gives you four 5-foot beds (I much prefer solid beds for summer, as I do benches for winter), with three 2-foot walks. Some would make the middle bed wider and have but two passage ways, but I consider three better, giving easier access to the roses in cutting besides saving time in working among them.

Give these solid beds good preparation on the start, free drainage and a generous depth of suitable compost. The first season the roses are planted you cannot reasonably expect very much, but thereafter, with any sort of decent care, you will be amply repaid by generous bloom and of good quality. In November the roses are dried off for the winter, by simply withholding water, and this dormant or resting period gives them renewed vigor for the summer campaign, a la nature. Prune them back before they start in the spring, cutting out all useless or weak wood, mulch well and they will soon be ready for business. The first crop can be brought in for Easter, with sufficient heat, or left to come on naturally in May. One advantage in having houses for summer roses, the forcing houses can be cleared sooner, thus affording an early start towards the next season's crop, an important item too. It certainly does not pay to be late in planting roses for winter forcing, otherwise you are quite apt to feel it the whole season through.

A house of hybrids treated in this way, with or without heat, furnishes a quality of flowers impossible to secure in the open air. Rich coloring, perfect shaped blooms, with fine foliage, which I think will repay the grower who has any use for good stuff, even if the hybrid crop is necessarily a short one. I find my summer roses very useful indeed and profitable. Roses even in summer have a cash price, according to quality, and like fresh eggs will sell at some price while other available flowers at the same season may go begging.

The engraving shows one of several houses, each 13x100, the heating pipes arranged overhead so as not to lose any ground room. This house contained when photographed 550 plants of La France, 150 of American Beauty and 100 of Perle. The photograph was taken June 20. GROVE P. RAWSON.

Elmira, N. Y.



Answers for Beginner.

1. It will pay well to put from 16 to 20 inches of glass in front of all outside benches.

2. Use only sashbars grooved for drip.

3. Eight 2-inch steam pipes will give plenty of heat for the house described. Would strongly recommend a 2-inch overhead pipe. Two of our houses, 16x124 feet, 9 feet to ridge, we heat with a 2-inch flow overhead and eight 1-inch return pipes under benches, and we have a good carnation temperature, when it is 30° below zero outside.

4. When firing heavy we syringe every evening. At daytime do it often enough to keep spider down, and never allow plants to droop for want of water at the roots. Use slate and iron for benches if you are going to stay at the business long. Benches 3 feet wide, 6-inches deep for light soils, and 4 or 5 inches deep for heavier soils, may be made of 2x4 studding and rough 1-inch pine lumber, that will do nicely for from 3 to 5 years.

5. Smoke at least once a week. We find it better to smoke lightly twice a week. It is a great deal better to keep Mr. fly out of our houses, than to let him get a good start, and then injure a lot of plants trying to kill him.

6. Smoking is much more effective than scattering stems and much neater too.

7. We generally dissolve insecticides in water and apply with a syringe.

Des Moines, Ia. J. F. MARSHALL.

Carnations and Picotees.

In the AMERICAN FLORIST of January 28 Mr. Benary expresses surprise that carnation Germania is not cultivated in America. It is a great pleasure to me as an old florist to read the AMERICAN FLORIST, which comes to me regularly, and to see that the carnation is so very popular in the States and that carnation societies are being formed. But with you the tree, or perpetual, carnation varieties are in request and are grown in large quantities. We also have these varieties, and although we have some very fine varieties they are not so popular as compared with the grand selfs, fancies and show varieties of carnations and picotees recognized by our florists as exhibition flowers.

Germania is everything Mr. Benary says of it, a grand flower of large size with broad well formed petal of large size, smooth on the edge and on the surface, a well formed pod and an excellent grower, throwing plenty of grass. It took our English florists by storm when first introduced five or six years since, and Mr. Benary has followed it up by the introduction of other splendid varieties, many of them of new shades of color and possessing the admirable properties of Germania. In such new sorts as Stadrath Bail, Schleiben, Von Helmholtz, Frederich Alexander, Esmarch and Nora, all of Benary's introduction, we have some superb acquisitions.

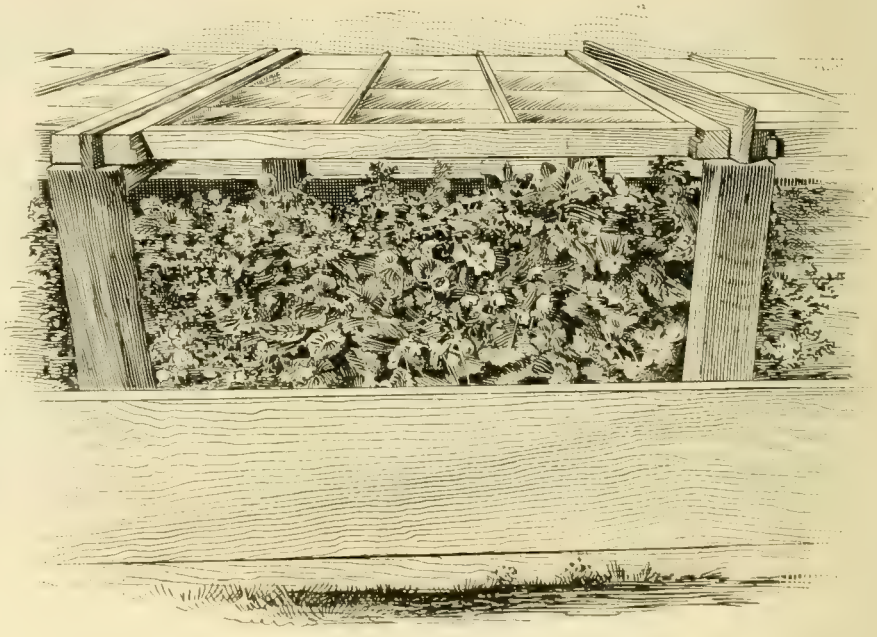
Our English florists are also at work with the hybridization of the carnation and picotee, and the veteran, E. S. Dodwell, of Oxford, has raised and sent out some very fine sorts, of selfs and fancies especially, and almost all our fancy varieties have a yellow ground color. Mr. James Douglas, of Oxford, is also to the front with some superb yellow ground varieties such as Almira, Colonial Beauty, Terra Cotta, Annie Douglas, and especially with that wonderfully fine variety Lillian, sent out last year, truly a grand yellow with bright crimson and carmine markings. Mrs. Robert Sydenham is another splendid variety raised by Mr. Douglas. A neighbor of mine, Mr. C. H. Herbert, grows a wonderfully fine collection of quite 200 leading varieties, and almost all in pots eight inches in diameter. Quite 800 pots will be flowered this year and he has recently added quite 50 new varieties from Germany, besides English raised kinds and two new varieties of his own raising, Blushing Bride, a superb self of a blush tinted white color, and A. W. Jones, deep yellow striped with bright scarlet, are two flowers you would be greatly pleased with.

Mr. John Thorpe, whom we know this way, for he was a near neighbor at one time, when a resident at our famous Stratford-on-Avon, and whom we rejoice to see in the proud position he has attained in the States, was rather laughed at some time since for what Prof. Bailey called "John Thorpe's ideal bloom." But we have reached that for some time and many of our fine kinds are, when in fine form, four inches in diameter, and Mr. Herbert has a seedling from Germania which exceeds it.

I wish we could get blooms to you in August, our blooming time here, as all are grown in pots out of doors with only shelter from rain and too much sunshine. But that is not possible, but I hope some of your florists will take up these varieties, as I think they would become very popular with you. Their exceeding beauty, large size of flower, broad smooth petals, free from serratum on the edge, for that is a *sine qua non*; their fine pods which do not split and long stems are all in their favor.

If your carnation societies will make it almost imperative that all seedlings shall be submitted for judgment before they are sent out, you will be spared the infliction of many worthless varieties, a subject on which Mr. A. M. Herr writes so well. We find over here that most raisers think highly of their own seedlings, but our carnation societies do a world of good in checking the sending out of new sorts which have not received a certificate from one of the societies.

Birmingham, Eng. WILLIAM DEAN.



SUMMERING TENDER FLOWERING PLANTS.

Kennett Square, Pa.

The meeting of the Chester County Carnation Society March 5 was slimly attended, the weather being extremely inclement.

Several exhibits of seedling and new varieties were shown by Warren Shelmire —Cæsar, Brutus and Pride of Penshurst; by C. J. Pennock—a scarlet unnamed; also a magnificent display of a strain of Marie Louise violets from Geo. Creighton, many of which exceeded in diameter a silver dollar. A letter from Edwin Lonsdale expressed regret at not being able to be present and said he was not able to send specimen blooms of Grace Battles as the supply was unequal to the demand at $4 per 100.

A sample of the McKay planter was shown by Henry A. Dreer and in practical work demonstrated that carnations and other plants could be rapidly and successfully planted. The "Scott distributor," for mixing and distributing insecticides, was also exhibited.

The members attendant at the Buffalo meeting of the American Carnation Society reported on the trip and entertained the society for some time. C. J. Pennock read extracts from Prof. Bailey's unpublished paper read at Buffalo on "John Thorpe's ideal carnation." Mr. Jos. Phillips thought the "ideal" would not be reached until we increased the constitution and strength of the plant.

The subject for the next meeting was announced: "Resolved, That our present system of propagation and growing the young carnation is injurious to the growth of the matured plant." C. J.



AN ORNAMENTAL GRASS BED.

Summering Tender Flowering Plants.

The engraving gives a fair idea of what might be termed an outdoor summer house for tender flowering plants, bulbs and miscellaneous stock kept over summer.

Take an old hotbed frame, raise the sash bars 2 or three feet by nailing a board at each end of bar, slanting the bar to the south, put on the sash, whitewash or paint glass and you are ready for business. *Always* run the frame east and west. Have 16-foot strips 3 inches wide to lay on the sash and fasten down when there is likely to be a wind storm. With a hose for watering there is no need of moving sash.

Towards the end of June the odds and ends usually seen in commercial places have a decidedly "tired" look. If they be gathered together, cleaned up, repotted and half plunged in frame here described, they will soon be beautiful plants and the flowers cut from them can be sold for more than enough to pay for all the trouble, besides giving good healthy stock to propagate from in fall and winter. Fuchsias, ivy geraniums, tuberous begonias, hydrangeas and nearly all bedding plants will do wonderfully well when so managed.

The frame as here described, and from which this rough sketch is taken, was seen at J. C. Vaughan's place at Western Springs, Ill., last summer. The display of tuberous begonias in pots grown in this frame were simply magnificent and all other plants presented a healthy, fresh appearance not seen when grown inside during the hot months. P.

An Ornamental Grass Bed.

This picture of a grass bed on our place is from a photograph taken by Mr. L. Hallock last September. The bed is both a striking and ornamental feature at Dosoris, and I think my esteemed friend Mr. Temple, of Davenport, Iowa, went into as great ecstacies over it as anything else he saw here. The bed is cut out in grass and its proportions are quite large.

The front belt of grass which you see in bloom is Pennisetum longistylum, an Abyssinian species. It is not hardy, so I treat it as an annual, save some of our own seed in September or October and sow them in a flat next March. The seedlings grow quickly, and by potting them off singly I have nice plants to set out about the first of May. Plant them a foot or 15 inches apart and 2 feet from the out edge of the bed, for they fill up quick. By July they have met and are in bloom and continue in bloom and increased profusion till October. And, let me tell you, big bunches of these grass blooms are elegant when cut in summer.

The next row is of striped variegated leaved eulalia. It is hardy and left out all winter with simply a mulching of leaves and litter drawn over its roots. The eulalias had not begun to bloom when the photograph was taken.

Back of the variegated eulalia is the zebra striped eulalia, which curious enough is the most vigorous of all the eulalias, even more so than of the typical plant.

Behind the eulalias are a clump of tall leafy waving reeds, they are Arundo Donax. It also is hardy with us in the same way, that is under a heavy mulching in winter. It does not come into bloom till the end of September, when its longest canes run about 18 feet in height. About these arundo canes I may say when we cut them down in November we use them tied erect between slats as a protection from wind to some of our finer tall evergreen trees.

Many other grasses occur about the flanks of this bed, as it touches into a

shrubbery group, but they are not shown in the picture.

Do you see, all the plants used to get up this fine clump are perfectly hardy except the pennisetum which we treat as an annual.

Passing along the stone walk to the turn of the bed the big bush with a few white flowers is Rosa rugoso alba, a splendid shrub, hardy as a rock and most always in bloom.

Beyond it is as handsome a specimen of the snowdrop tree (Halesia tetraptera) as one could wish to find, also plants of H. diptera and H. Meehani.

WM. FALCONER.

Greenhouse Ventilation and Ventilating Sash.

BY J. D CARMODY.

A proper attention to ventilation is an important part of the requirements in successful cultivation of plants and cut flowers under glass. It is a fact, however, that in the past too little attention has been paid in the construction of greenhouses to provide an effective and convenient means for the performance of this necessary duty.

It has been within the province of the writer to visit floral establishments in all parts of this country during the past few years, affording ample opportunity to note many mistakes that excited our sympathy for the proprietor, who unwittingly saddled himself with an endless amount of hard labor in the handling of badly constructed ventilators. It may not be amiss to describe some of the "freaks" we have seen.

At one place a party had just completed two new houses 100x20 feet. The ventilators were a continuous line of sash, three feet deep, hinged at the lower end, the upper end closing against the center ridge pole. So far all right, now comes the blunder. The sash at the lower end did not lap over the glass and rafters below, but were sunken down flush with nothing to cover the joint between. The result was, most of the rain falling on the sash and all the drip fell inside of the house to the ruination of plants below. On asking the proprietor why the sash were so arranged he replied, "The carpenter put them in that way, I was busy with my plants and did not notice." Right here we will say there are few house carpenters that have any correct ideas of greenhouse construction, and unless the florist knows what he wants and how to direct the details many expensive mistakes are liable to appear in every job entrusted to their hands.

Many plant houses, otherwise well built, have a very inadequate amount of ventilation, say from three to six small sash scattered along in the length of a 100 feet of glass; these hinged at the upper end so that when lifted the wind has free opportunity to blow in from front and on either side directly on the tender plants within, "tender" because grown in an atmosphere insufficiently supplied with good air.

One very common error is the location of ventilating sash between stationary ones or side rafters. The movable sash may work all right one day and the next be swelled so tight "John" will have to climb on the top of the house and pound it down with a hatchet. To avoid this trouble have the sash lay on top of the rafters, or if the house is made entirely of sashes let every other one lap over an inch on each side of the ones below, closing up the opening at the foot with a piece of plank cut to fit.

It is a mistake, where sash are hinged at the bottom, to fasten the hinges to the under side of the sash, for the water of condensation keeps them wet and rust soon destroys them. The better plan is to nail or screw a block the same thickness as the sash, the width of the hinge and 6 or 8 inches long, on top the rafters close up against each lower corner of the sash; these blocks will hold the ventilator firmly in position and make a secure place to hinge to, and if kept painted the hinges will last as long as the sash.

The duty of opening and closing the air vents in a greenhouse is a labor that must be performed nearly every day for the greater part of the year, and many days more frequent attention is necessary. It is highly important therefore that the ventilators should be so located as to be easy of access, quickly handled and firmly secured when open or shut. Furthermore, for the good of the plants they should be so arranged as to take the overheated and impure air from the house and at the same time exclude as much as possible draughts of air from without. To attain this the sash should be continuous, reaching from end to end of the house, or nearly so, and hinged at the bottom, and they should be operated by an apparatus of some sort that will move the entire line at once. There are many good appliances in the market invented for this purpose, and money invested in the purchase of good ventilating apparatus ensures a dividend that soon covers the outlay.

To secure a uniform movement of the sash so arranged they may be dowelled together near the upper end or be connected in one line by a thin iron plate 3 inches long by 1½ inches wide, screwed across each joint. Continuous sash can not be successfully handled without an apparatus that will move all at once by reason of their liability to swell and stick fast as before referred to.

The great benefit of the continuous sash system is the exclusion of side draughts; wind can not so readily blow into the house. Again a very narrow space, open the whole length of the house, will be sufficient in cool weather, being equal to the full space of two or three scattered sash; but in the narrow vent no wind will enter, and at the same time a uniform ventilation is secured.

On houses running north and south the ventilators should be located on the west side, but if east and west place them on the north side to ward off the cold winds from north and west. If hinged at the bottom two set of sash on opposite sides of the ridge pole can be opened by one line of shafting, but if hinged at the top two complete sets of apparatus is necessary. Continuous sash thus arranged afford as perfect a system of ventilation as is possible to have, for when both sides are open alike side draughts are shut off and the wind blowing over forms a suction to draw the hot air from within. By such an arrangement the sash need not be more than 12 or 18 inches deep, for when open a double space is devoted to ventilation.

In constructing a house of the three-quarter span style it is a good plan to have the short side composed entirely of full length continuous movable sash hinged to the gutter and shutting against the ridge pole. This, operated by an apparatus, makes a cheap and complete construction with a simple system of ventilation.

In constructing a plant house do it with a view to the ultimate attachment of a mechanical appliance of some sort to regulate the ventilation, for no greater time and labor saving institution can be introduced into a greenhouse.

An Introduction.

Probably there are none among those whose portraits we present in this issue with whom readers of the FLORIST have not had business dealings, and in connection therewith considerable correspondence; still probably a comparative few only have been privileged to come into personal contact with them. Hence we believe that an introduction, such as given in this issue, will be a pleasure to a very large number.

Ornamental Trees and Shrubs as Florists' Stock.

At the last meeting of the executive committee of the S. A. F. Mr. J. T. Anthony of Chicago insisted that ornamental trees and shrubs are as much the legitimate stock in trade of the florist as of the nurseryman, and no one denied it.

But as florists on account of their more limited acreage, as a rule, cannot be expected to carry such a heavy stock of trees and shrubs as nurserymen do, they should make amends for this in selectness of variety and perfection of individual. And if their ground is very limited it may be enough that they have simply a few perfect specimens of each sort as samples, something their customer can see growing, and make up his order from. And the florist should make arrangements with some trustworthy nurseryman to supply him with duplicate stock to fill his orders with just in like manner as many seedsmen who do not grow plants, but advertise and sell them, make arrangements with florists to furnish them.

Regarding what a florist can sell, I should say, that one of our heaviest mail men told me the other day, "I can sell anything that I advertise." Another more conservative florist who does a highclass, general local plant trade, told me a little while ago, "I can sell anything I can grow and which is pretty." And this is decidedly a fact. When an amateur gets interested in gardening, or it may be just in fixing up his garden in spring, he wants to get some plants but what to get he really doesn't know. He consults a friend who gives him an object lesson in his garden, or he may wander into the mazes of catalogues and get lost, but the wise man takes a walk or ride out to the florist's. Now if this florist can show him handsome little specimens of retinosporas, Japanese yews, George Peabody arborvitæs, a Douglas fir, a Nordman's fir, a blue spruce all in beautiful form and thrift, the amateur will probably see something among them that suits him exactly and will buy it. He knows it is hardy. And probably he may see a good many other things in the way of climbing vines, deciduous shrubs, hardy perennials, roses or greenhouse plants that he might conclude would look pretty nice in his garden and buy them.

There is no getting over the fact that ornamental trees and shrubs are becoming more and more the imperative decoration of all gardens, large and small, and the gay or bedding plants are simply the trimmings. The perennial beauty and pleasure of the garden depend far more upon the trees and shrubs than upon the transient or one-season stock, hence the arboreal furnishings give the amateur the most concern. His pattern beds or



F. R. PIERSON.



G. C. WATSON.
(John Gardiner & Co.)



Z. DE FOREST ELY.



J. J. HARRISON.
(Storrs & Harrison Co.)



MRS. H. H. BERGER.
(H. H. Berger & Co.)



WM. F. DREER.
(H. A. Dreer.)



AUGUST ROLKER.



A. H. HEWS.



D. H. ROBERTS.

variety of bedding plants he can change at will to suit his fancy, but he hesitates to interefere with the plants of a lifetime. Now, why can't the florist furnish the trees and shrubs as well as the bedding plants, design their arrangement and plant them too?

Ornamental trees and shrubs should be perfectly hardy, of handsome form and desirable kind, and the shrubs in particular should have beautiful flowers. All trees and shrubs are hardy in some place, but many that are hardy at Washington are quite tender at Minnesota, and the flora of Santa Barbara cannot be duplicated on Long Island. Further, many trees and shrubs may be perfectly hardy in the mixed timber and sheltered parts of the state, which would not exist over winter if planted in the open prairie in the same latitude. We must not be so narrow minded as to insist that any trees or shrubs not iron-clad in Dakota should be excluded from the list of hardy trees, for there is an enormous section of country to cater to outside of the blizzard states.

Every florist should post himself thoroughly on the trees and shrubs that are perfectly hardy in his neighborhood and base his recommendation of hardiness on these living examples. But he must not confine himself to these, his business is progressive, and he must load up with all the desirable trees and shrubs, old and new, that he has good reason to believe may be hardy with him, and be prepared for many losses. This gives him definite experience. He has proven beyond peradventure which are hardy and which are not.

Nurserymen's catalogues every now and again come in for a sound drubbing by some "smart Alick," on the ground that they disseminate false impressions regarding the hardiness of plants, when, most often "Alick" himself is the fool.

If a Georgia nurseryman issues a catalogue of hardy trees and shrubs and I send to him for some pittosporum bushes, tea plants, evergreen magnolias, camellias and Cherokee roses and plant them out here on Long Island and they are all winter-killed, can I blame that nurseryman for leading me astray by his description of these trees as being perfectly hardy? No. If I weren't an ignoramus I'd never expect that because a plant is hardy in Georgia it must necessarily be hardy in New York.

We simply make the assertion that the plants are hardy here with us, in whatever part of the country that may be. But the well posted florist can guess pretty well how far the plant may be trusted as hardy in other sections of the country, and advise in this respect if asked to.

Be very select in your list of trees, excluding all poor or ill-conditioned sorts. Don't let cheapness run away with your good sense. Amateurs in ordering trees from a trade list may be ruled somewhat by prices, but when you show them the sample specimens on your grounds, price will never stand between them and quality. For instance you have a very comely Norway spruce which you want 35c or 50c for, and near by it a blue form of the pungens spruce which you ask $2.50 for, the man who would buy the Norway in preference to the blue spruce, even at the difference in price, would be too mean to deserve a garden.

Every now and again we hear a glorious hurrah about the charming tints of huckleberry foliage in fall, the bewitching beauty of our swamp roses, the tropical luxuriance of our sumachs in summer, and so on, and endure a sneer at our vulgarity in neglecting these our native gems, and betaking to ourselves the coarse hydrangeas and other gay bushes of our gardens. But let them howl, they're not in business and it's recreation for them. The sort of shrubs the people want are those of free, and easy growth, handsome outline, and which bear a profusion of lovely flowers. They want Mezereon, Forsythia, Japan Quince, tree pæonias, deutzias, mock oranges, weigelias, rhododendrons, hydrangeas, magnolias, lilacs, hawthorns, and the like, and if you want to make money in handling shrubs you should restrict yourself to the choicest of this sort of stock.

WM. FALCONER.

New York.

The expected drop on cut flower prices has partially taken place, a little spring-like weather being now only required to complete the job. As it is prices have already declined from 25 to 33 per cent throughout the greater portion of the list. The outside figures on hybrid roses and Beauties of best grade is but $6 per dozen, where one week ago it was $9. Brides, Cusins and other staple roses have dropped to $6 per 100. The most demoralizing feature of the rose, violet and lilac market is the irregularity in prices which always comes as soon as there are indications of permanent overstocking. The holders get panicky and although many roses may be sold at $6 and some violets at $1, yet large quantities of the former are apt to go as low as $3 to $4, and $5 per 1,000 is often the figure on the latter. This demoralization, however, is just what some are always looking for and trying to bring about. Johnnie Weir, for instance, is always on the "bear" side and from the present time throughout the spring looms up as an important factor in the disposition of large lots of flowers. The look of inactivity and resignation which his features have uniformly borne for the past three months is gradually giving way to a smile of satisfaction and he poises his hat with the air of a man who is conscious and confident of his ability to dictate terms although he strives hard to cover up his buoyant feelings with a look of studied unconcern which is delicious to see.

"Well, do you want that stuff put in the wagon, Johnnie?" says the wholesaler. "No, I want a little private conversation first," replies that worthy.

There are a good many inferior hybrids and Beauties coming in at present. The first class specimens generally find a good market, but those of poor quality are difficult to dispose of at any price. Carnations do not as yet suffer any from the incoming of Lent. All varieties are holding well up in price, with white in the lead. The quality of the blooms is falling off, however; the stems are as long as ever, but the flowers are smaller. Bulb stuff has not declined any farther in price for the reason that it has already got about to the bottom of the ladder. Tulips are coming in splendid form now and a fine assortment of colors. Green of all kinds, smilax, adiantums and Asparagus is scarce. Harrisii lilies are too plenty and an unusual occurence is the abundance of cattleya blooms of which there are enough for all demands. Wiegand is sending in quantities of first rate Jacqs. Alex Burns is bringing from his own houses Gontiers which for color, size, solidity and stem cannot be excelled.

One of the finest wedding decorations of recent date was that done by Henry Hession, the Madison avenue florist, for Gen. Dodge on the occasion of his daughter's wedding.

The Florists' Bowling Club meets now every Monday afternoon regularly and some of the members are getting into good practice. The subject for the consideration of the Florists' Club at its next meeting is "How can we as a Club best advance the interests of the Members?" There will be no essayist, but a general discussion. The schedule of premiums for the chrysanthemum show at Madison Square Garden next November is out; $6,500 is appropriated for premiums. Copies of the premium list and rules may be obtained by applying to Wm. Plumb, manager, Madison Square Garden, New York.

There has been a steady stream of visitors to Short Hills this week, the attraction being the annual orchid exhibition of the United States Nurseries. As might be expected, the floral treat was most superb. In addition to this Mr. Manda, as usual, dispensed hospitality with a liberal hand and the numerous visitors from the trade far and near were made specially welcome. The arrangement of the blooming orchids was exceedingly good. The great central show house with its walks winding among stately groups and borders of luxuriant palms, towering tree ferns and tropical foliage made a most effective setting for the orchid display. Hanging from fronds and branches, nestling among the foliage and stems, were cattleyas, odontoglossums, dendrobiums and lycastes by myriads in beautiful array. The Cattleya Trianæ were specially numerous and rich in coloring, many rare forms being seen. There was a good showing of Lycaste Skinneri alba and the pure white Coelogyne cristata and the Dendrobium Wardianums were abundant and showed to fine advantage as they hung from the lofty palms. One of the best groups was a big Alsophila excelsa with Cattleya citrina suspended from the fronds and surrounded by a display of Odontoglossum crispum. Among the odontoglossums was a specimen of O. Ruckeriana with two spikes bearing 48 blooms. One of the most admired plants in the whole exhibition was a well bloomed Angræcum sesquipedale. The cypripediums were shown in a house by themselves. There were 126 varieties in bloom, many of them being rare kinds, and the arrangement was very effective, neat little plants of Araucaria excelsa alternating with the cypripediums throughout the house. The other houses opening out on either side from the main show house were devoted each to some specialty, one being filled with alocasias and nepenthes, another with anthuriums and others with various species of palms, while one house was a gorgeous mass of blooming plants, such as azaleas, genistas, narcissi and lilies.

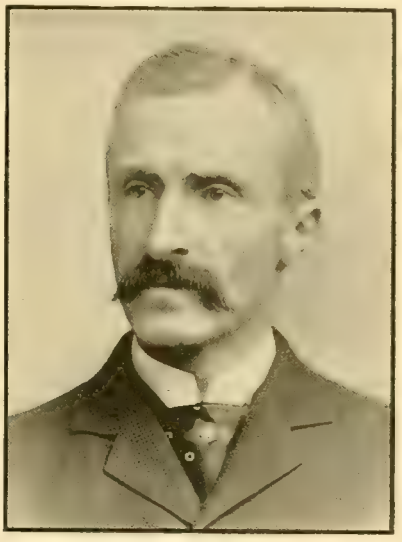
The cozy theatre of the Eden Musee was turned into a bower of beauty on the occasion of Siebrecht & Wadley's sixth annual orchid show. There was a splendid lot of plants and cut blooms from their own establishment at New Rochelle, besides liberal contributions from W. S. Kimball, Fred'k Goodridge and others. The great central group was a grand collection of tropical plants and orchids exquisitely arranged and the draping of gray Florida moss which hung from the branches overhead added much to the effectiveness. Another beautiful arrangement was the group around one of the big mirrors, composed of tree ferns, Alo-



J. G. WHILLDIN.



W. W. BARNARD.



CHAS. D. BALL.



ED. JANSEN.



ALBERT M. HERR.



DENYS ZIRNGIEBEL.



J. HORACE MCFARLAND.



E. HIPPARD.



J. D. CARMODY.

casia macrorhiza and smaller plants so placed as to take full advantage of the reflections in the mirror. The stand of dendrobiums dressed with ferns and selaginellas was also worthy of note. Among the most noticeable plants shown were a fine specimen of Cymbidium Lowianum and a plant of Dendrobium phalænopsis, var. Schroderiana, the latter attracting perhaps as much attention as anything in the show, also a well flowered specimen of the white Cattleya Trianæ, which was contributed by Mr. De Forest. The contribution from W. S. Kimball comprised 56 varieties of cut cypripediums, including such rarities as C. Lathamianum, C. Winneanum and C. Haynoldianum. The grouping of small palms, azaleas, cyclamens, tulips and other decorative plants in the galleries, around the sides and stage and in the corridors and vestibules was very extensive and artistically arranged, although some of the best features suffered from insufficient lighting. Another drawback to a full appreciation of the exhibition was the lack of room, the hall being too small for such a display.

There were many visitors to New York attracted by the occurring of the two exhibitions simultaneously, among them being M. A. Hunt of Terre Haute, Geo. Savage of Rochester and Charlie Knight and Mr. Griffin of Lenox, Mass.

The late Wm. Bennett is well remembered in New York as a gardener of exceptionable ability and his mantle must have descended in full upon his son, A. W. Bennett (or "Gus," as he is known among the boys), who has had charge of the houses of Mr. Wm. Brown at Flatbush for a number of years. That the advantage of a thorough training combined with a natural love for his calling is fully exemplified in this young man's work requires but a visit of inspection. Every foot of space shows evidence of skill in cultivation and taste in arrangement. Every plant is in perfect health and a picture in itself, while for scrupulous neatness and absence of litter or rubbish of any kind these houses cannot be beaten. The little orchid house only 37 feet by 10 is a sight. The phalænopsis are a sheet of bloom, so are the cattleyas. How so many plants were brought into flower at once in such a little spot is a mystery. The stove house also contains many gems. The crotons are unexcelled in color and the dracænas are perfect specimens. One of the most beautiful ferns ever seen is a specimen of Goniophlebium subauriculatum which is set on a stand ten feet high, the fronds hanging in luxuriant profusion to the floor. Many of the fronds are not less that fifteen feet in length and the plant would make a complete wedding canopy just as it is. In the palm house are grand specimens of Cycas circinalis, Cibotium contaminus and plants of like character. The show house is now gay with cinerarias and cyclamens, both of the finest strains. The calceolarias will be ready to take the place of the cinerarias as soon as these are finished. Mr. Bennett has some fine seedling nepenthes and other things on which he has lavished much care and it will doubtless be a severe privation for him to go away and leave them all behind him, but it is understood that he is to make a change shortly. Wherever he goes he will carry with him the respect and esteem of all those with whom he has been associated.

Dailledouze Bros.' houses at Flatbush are looking well and these industrious gentlemen are making extensive preparations for Easter and spring bedding trade. Their carnations have been paying well this year, although more or less infected with the much discussed fungus. Mr. Dailledouze does not worry much about it, however. "That fungus is old as the hills," he says; "it only comes from dampness and cold." Silver Spray is his favorite white variety. Mermets, Brides, Wattevilles, Hoste and Waban are all doing finely.

The old Bennett establishment is not far from here and is run now by Mr. Geo. Bennett. Not much addition has been made to the place since the death of the elder Bennett, but the houses have in some cases been rebuilt and have been kept in good repair. The old camellia house is now devoted to carnations, a glorious bench of Portia occupying the entire space. There is one house of remarkably fine cinerarias, some single blooms of which measure full three inches across. There will be a big stock of hydrangeas here for Easter demands.

The Long Island city florists have suffered heavily through using the new supply of city water during the past season. The water proves to be ruinous to many plants and all the growers have been obliged to give up using it and make arrangements to supply themselves from wells and cisterns. There is some talk among the florists of bringing suits for damages against the city.

Ernst Asmus has gone to Florida, whither he has been ordered by his physician on account of his health.

Chas. Henderson has gone on a similar errand to Viriginia.

Wm. Falconer has been seriously ill for the past two weeks.

The Klunder Company failure proves to be worse than was at first supposed. They owe some very heavy bills and the assets at present seen very elusive.

Benj. Ezickel, the Union Square florist is also in care of the sheriff, and owes quite a number of accounts.

Philadelphia.

The March Meeting of the Florists' Club was well attended despite the disagreeable weather. The proceedings were very interesting almost all of those present taking part. A vase of fine flowers of Mr. Dreer's new daisy "Snow Crest" was much admired. Mr. Craig not being able to be present Mr. Ball occupied the chair.

Mr. Westcott, as chairman of club house committee, made his report for the past three months. The club room is more than paying expenses, the income increasing every month, although the price of bowling has been reduced. Mr. Westcott also, as superintendent of the exhibition of the Hort. Society, asked the club to turn in and decorate the hall for the spring show, commencing March 29th. This was agreed to and the entire club will turn in and do their best to make the surroundings beautiful. A very important matter and one that will be of interest to quite a number of members, is an amendment to the bylaws prohibiting smoking during the meetings of the club. One of the sections allows this, but it will now be speedily done away with, as even old smokers say they are glad of it, and the motion to amend passed without a dissenting vote.

The following gentlemen were elected to membership: S. S. Pennock, Henry A. Bower, Otto Thedston, M. C. Cheney, F. D. Cheney and Thos. B. Meehan.

Two silver cups were on exhibition, one worth fifty dollars, a handsome cup offered by Robert Craig for 12 best blooms of a carnation not yet in commerce, to be competed for at the spring show, March 29, of the Penna. Hort. Society. This is certainly a very handsome prize and we believe the finest ever offered for 12 carnation flowers.

The other is a very fine solid silver cup worth 100 dollars, given by Mr. James Simpson of Philadelphia, a gentleman whose love of flowers has led him to offer this elegant cup. It is for the best plant of Chrysanthemum Mrs. M. Simpson, a fine early yellow Japanese, with very large incurved flowers. It was raised by Robt. Craig and named for Mr. Simpson's mother. As a matter of course all the growers in this neighborhood have a plant or two of this variety which is being guarded with great care. This competition is sure to be a leading feature of the show next fall.

The periodicals on the library table have all been placed in neat binders with the name of the paper in gilt letters across the back. The committee, of which Mr. Geo. Watson is chairman, certainly deserves a great deal of credit for the very careful manner in which every thing is arranged. Our genial Dan, the librarian, has become so familiar with the books that he can place his hand on any volume wanted at a moment's notice.

Business the past week has not been so bad for the first of the dull season. Fortunately the most of the hybrid men managed to get through with their early crops in time, as such a supply as there was just before Lent would hardly sell now.

Prices have fallen some. Gontiers, Perles and Sunsets, sell for $5; Brides and Mermets 8 to 10, Cusins and La France 6 to 8, Hybrids and Beauties 25 to 50. The best carnations still bring $2.50. Violets are getting smaller and bring $1 a hundred, tulips and daffodils 4 to 5.

There are three fine pink carnations to be offered to the public in a short time. One will be sent out by Mr. Colflesh. This is a very fine bright pink, good bloomer with strong stems and large flower; Mr. Lonsdale's Grace Battles, described before, and growing in favor with everyone who sees it; and Edna Craig, a beautiful light pink; at Craig's they think this is the best pink yet and as it is growing there, it certainly is very fine, having all the requisites of the perfect carnation; the color is the ideal light pink, the flower large with heavy stem, does not burst and free in bloom.

Some time ago Mr. Westcott held the opinion that carnations could not be grown in Philadelphia as well as in the carnation belt in Chester County; for said he "they have such pure air, and that accounts for their success." Well there must be a little fresh air about here, for Mr. Craig's carnation house is pronounced a wonder by all who see it. By the way, the folks up in the girdle say it is not spots of rust that has tarnished the belt, for there isn't a particle of rust about, except possibly a little on the nails in the benches, and that in a very short time they expect to have everything as fresh and vigorous as before.

The store occupied by La Roche & Stahl, at 13th & Chestnut, considered by many to be the best business stand in the city, has been purchased by Boothby the large restaurateur who occupies the adjoining building. They will now have to seek other quarters, but that they can carry their business with them we have no doubt as Wm. Stahl, who is a great worker, is always on deck and this means success in any business.



FRANK W. FOSTER.



HARRY BAYERSDORFER.



PAUL BERKOWITZ.
(H. Bayersdorfer & Co.)



ANTOINE WINTZER.
(Dingee & Conard Co.)



EDW. W. HITCHINGS.
(Hitchings & Co.)



E. A. MICHEL.
(Pres. Michel Plant & Seed Co.)



JOHN A. SCOLLAY.



J. G. SCOLLAY.



C. H. JOOSTEN.

In the bowling tournament McLean is now 117 pins ahead of all competitors and likely to win handily. In the second class it is Campbell and Nesbit and in the third, Fancourt and Knapp are first and second. Anderson wound up an evening recently with a score of 232 and many high scores are made in the practice games.

Mr. Price not being present his paper on growing hybrids will be read at the May meeting. Mr. Thos. Cartledge was appointed to read a paper on decorative plants and floral decorations at next meeting.

The club will hold its annual banquet on the second night of the spring show. This will no doubt be a fine affair.

Boston.

Cut flower trade has been dull all around for several days. Prices are on the downward scale—even carnations are beginning to weaken. There is some very fine erica being received now and it is extensively used here in all kinds of work. There are fine plants of it in all the florists' windows. Azaleas, spireas and cinerarias are also quite abundant.

Much enthusiasm has been excited in the Bowling Club by the generous action of Mr. C. V. Whitten in placing his splendid private alleys at the disposal of the club. The first practice meeting at these alleys was held on March 5, about 18 or 20 members attending. With characteristic hospitality Lawrence Cotter, who has charge of Mr. Whitten's rose houses, acted the part of host and the boys were not allowed to go away either hungry or thirsty.

Mr. James Doogue, brother of City Forester Doogue, was run over and instantly killed by a dump cart on Boston Common, where he was superintending the dumping of some snow from the neighboring streets. The wheel passed directly over his neck. Mr. Doogue has held the position of assistant superintendent of the Common for some years, having been formerly connected with the gardening and florist business. He was widely known among the florists and highly respected.

Two beautiful solid silver cups costing $100 and $50 respectively are offered by Waban Rose Conservatories for the best Waban roses to be shown at the spring exhibition of the Mass. Horticultural Society.

Col. H. H. Wilson gave an interesting lecture before the Mass. Horticultural Society on Saturday, March 5, his subject being "Some Consideration of the Effects of Heat."

UTICA, N. Y.—The monthly meeting of the Florists' Club was held March 2, Pres. Aucock presiding. The reports of the secretary and treasurer were presented and accepted. Peter Crowe explained his method of growing violets, and was given a vote of thanks therefor. C. F. Baker read an instructive paper on "Looking Ahead," and a vote of thanks was tendered him. The old officers were re-elected as follows: Jonathan Aucock, President; C. F. Seitzer, Vice-President; J. C. Spencer, Secretary; C. F. Baker, Treasurer. In the question-box were these questions, and they were discussed at some length: Which is the most economical, hot water or steam heat? The opinion seemed to be that for large houses steam was most economical. What is the best paying rose to grow in this locality? Nearly all answered "Niphetos." The matter of holding a flower show next fall was discussed, and E. J. Spencer, Frank Baker and J. C. Spencer were appointed a committee to work up interest in the matter by next meeting, which will be held April 6.



L. B. BRAGUE.



WM. SWAYNE.



A. BLANC.



L. E. WOOD.
(Wood Bros.)

WICHITA, KANS.—Rose & Mueller have dissolved partnership by mutual consent. Mr. C. A. Rose retains the store at 404 N. Water street and Mr. Chas. P. Mueller the greenhouses at Fairmount. W. H. Culp & Co. have rebuilt their greenhouse and now have a very fine place. They have a M. Niel rose from which they have cut some 500 good buds this season. Stinebuchel had the misfortune to have all his plants frozen.

THE Pennsylvania Hort. Society has issued its programme for 1892. The spring show will be held March 29 to April 1 and the chrysanthemum show November 7 to 11. The premiums for each exhibition are very liberal. Copies of the programme may be had on application to the secretary, D. D. L. Farson, Horticultural Hall, Broad street, Philadelphia, Pa.

THE California State Floral Society has issued a premium list for its seventh semi-annual flower show, to be held in San Francisco May 11 to 14. Copies of the list may be had on application to Mr. W. H. Smyth, 226 Market St., San Francisco.

SPECIMEN flowers from a seedling of Silver Spray carnation have been sent us by Mr. John Schafmeister, Harrisburg, Pa. But the blooms were received in such bad condition that we could not pass opinion upon them.

DENVER, COLO.—August Schenkel has again taken charge of his greenhouses, which he had rented to Mr. Scheffel. His present address is Highlands, as he now has no Denver office.

SOME cyclamen plants and flowers are sent us by Mr. R. Lauterbach, Valley Forge, Pa. They were of very good quality, the colors of some of the flowers being extra good.

MILWAUKEE.—Geo. Volk, formerly with Crosby & Jones, opened a store and conservatory at 228 Wisconsin street, near the North-Western R. R. depot March 3.

PROVIDENCE.—The R. I. Hort. Society will have a banquet March 9. The spring exhibition of roses, azaleas, carnations, etc. will be held March 15.



ALEX. MONTGOMERY.
(Waban Conservatories.)



LINCOLN PIERSON.
(Sec'y. Lord & Burnham Co.)



GEO. W. MILLER.



CHAS. KROESCHELL.
(Kroeschell Bros.)



FRANK DAN BLISH.
(DeVine's Boiler Works.)



W. L. HERENDEEN.
(Treas Herendeen Mfg. Co.)



J. A. EVANS.
Quaker City Machine Works.)



ROBERT B. YOUNG.
(R. B. Young & Co.)



A. M. STEARNS.
(Lockland Lumber Co.)

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No Special Position Guaranteed.

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WE HAVE RECEIVED from Mr. W. Dean, Birmingham, England, the honorary secretary of the Midland Carnation and Picotee Society, a copy of the schedule of prizes for its annual exhibition which will be held at Birmingham August 6, 1892. The classification is as to color and other specified characteristics instead of named varieties with but few exceptions. The total value of the prizes, medals, etc., is about $500, and special certificates will be awarded to new varieties of merit.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED By a young man 20 years old, has been in the business 7 years, can make wire designs and do cut flower work. Address H F S, 1027 E Market St, Louisville, Ky.

SITUATION WANTED—Young man would like position by March 25th; have had 5 years experience at roses, carnations and mushrooms; good reference. Address J J M, Oak Lane, Phila Co, Pa.

SITUATION WANTED—By gardener, married, no family; understand fruit, flowers and vegetables and general care of a gentleman's place. Age 35 Address J T, Piermont, Rockland Co., N. Y

SITUATION WANTED—By a florist and gardener; German; age 32; small family; strictly temperate; 19 years in the business. First class reference. Either private or commercial Address FLORIST, East Moriches, L. I., N. Y.

SITUATION WANTED—By competent plant and cut flower grower; age 27; has thorough commercial experience; wages not less than $12 a week. Best of references. Address H, 829 Pavonia avenue, Jersey City Heights, N. J.

SITUATION WANTED—By a thorough, practical florist and gardener, fully competent to take charge of a first-class private or commercial place. Roses carnations and violets a specialty. Address W H, care News Co.'s Store, Elizabeth, N. J.

SITUATION WANTED—By a sober, reliable florist; 10 years experience in Europe and United States. Competent to take full charge of greenhouses. Age 25; speaks English. Good references Address GODFREY, 29 Horton S., Dayton, O.

SITUATION WANTED—By gardener, 24, good references, who is able to take good care of gentleman's place or willing to work as second gardener on a big private place. Prefer city or state of New York. GARDENER, Rector St. 19, New York.

SITUATION WANTED—Young man 25 years old in cut flower store; a good maker-up in every branch of cut flowers; 10 years experience in first class establishment; not afraid of work; first class references. Address J L care Robt C. aig, 49th and Market Sts., Philadelphia.

SITUATION WANTED—As manager or foreman in a large commercial place; thoroughly understands the forcing of roses, carnations bulbs, etc, also the growing of all kinds of decorative, tropical and bedding plants; has lived in some of the leading places in England; five years in this country and Canada; wages $75 to $80 per month; good testimonials. D P. NELSON, Vineville, Macon, Ga.

SITUATION WANTED—As manager or foreman in large commercial or private place by married German; 30 years old, one child; who held similar position for a number of years in some of the leading commercial places around New York; well up in growing roses, carnations, violets, smilax and bulbous stuff; rose growing establishment preferred; 15 years in the business; good references. Address, stating wages. B E, care Louis Blendermann, 143 East 59th street, New York.

WANTED—Stock plants of chrysanthemums; 50 Gloriosum, 50 Elaine. A. J. VREELAND, 200 Westside avenue, Jersey City, N. J.

WANTED TO RENT—Greenhouses, dwelling and some land near market Address WISE, Mt Prospect Ave., Newark, N. J.

WANTED—A single man to take care of ferns, palms, etc. Address with salary and references, O. P. BASSETT, Hinsdale, Ill.

WANTED—Florist for all kinds of greenhouse work; married man preferred; wages $40 per month. W. W. GREEN & SON, Watertown, N. Y.

WANTED—A good, reliable man for general greenhouse work Give references and state wages expected. I. N. KRAMER & SON, Cedar Rapids, Ia.

WANTED—A young German gardener who understands his business, to keep up a country place and to take care of horses and milking. Address R. H. SANBORN, Geneva, Ill.

WANTED—A first-class gardener to take care of a small greenhouse and grounds. Will furnish cottage for a married man Address F. M. HUBBELL, Des Moines, Iowa.

WANTED TO RENT—With privilege of purchase, a greenhouse establishment, near Boston. Southern roads prefered. Address LOTHROP WIGHT, Framingham, Mass.

WANTED—Competent man to take charge of cut flower and plant departments in commercial greenhouses; must be a good rose grower; state wages. THOS. T. HOLTON, Morristown, N. J.

WANTED—A young man for general greenhouse work; must have some experience. A good potter with some experience in making up preferred. State wages, etc. Address D. B. WOODRUFF, Macon, Ga.

WANTED A young man one who has had experience and is willing to work at anything about a commercial place, either in store or greenhouses, single man prefered; good wages; must be well recommended. W. A. WETTLIN, Hornellsville, N. Y.

WANTED—Rose grower. I want a man to take charge of rose houses at Kansas City, Mo., June 1st. Must be competent, sober, honest and reliable. Must come well recommended. None but a first class man need apply. Address. N. S. GRIFFITH, Independence, Mo.

WANTED—A young man as salesman for a Floral department in a large dry goods store. Hours 8 to 6 and no Sunday work. Must have had experience in design work and decorating. Apply by letter giving particulars and reference to, BROWN, THOMSON & Co., Hartford, Ct.

FOR SALE—Five greenhouses and stock on large lot, location best in the city, with a good trade. Address WM. MILLER, box 99, Chillicothe, O.

FOR SALE—At a bargain, a florist's business in a thriving city near St Paul. Proof profits for 1891 over $1,300. For particulars address SELLER, care American Florist.

FOR SALE—At great bargain, all or any part of 200 glazed door and window frames; just the thing for greenhouse use. CHICAGO FORGE & BOLT CO., 40th St and Stewart Ave., Chicago.

FOR SALE—Part or entire interest in greenhouses, neat cottage and ample grounds; well stocked and in good condition. In suburbs of the city of Danville, Virginia. Address T. L. SYDNOR, Danville, Va.

FOR SALE—Three greenhouses and stock on two lots with good house in a town of 10,000 and two adjoining towns of 4,000. The only establishment in either place capable of business increase. Address R. LAMBERT box 369, Windsor, Ont.

FOR SALE—My florist business, dwelling, hothouse well stocked; good trade; smart city; best location Come and see. Low price; half purchase money may remain on mortgage. Sickness. LEWIS R. FOX, Gloversville, N. Y.

FOR SALE—Two greenhouses well stocked with general line of plants in healthy condition; good dwelling house, wind engine and 3 to 5 acres of good land; natural gas; town of 5,000. For further particulars address P. O. box 430, Portland, Ind.

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Nine Green Houses containing about 10,000 feet of glass, stocked with carnations and heated by steam. Also grapery 80 feet long, recently built; about 30 acres of choice land, abundance of fruit of all kinds, large commodious house containing 15 rooms, including bath room, a new barn and necessary out-buildings, within 5 miles of Philadelphia and one mile from station. Will be sold on account of ill-health. Address I. LARKIN, Toughkenamon, Chester Co., Pa.

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FOR SALE.

The most desirable greenhouses in the vicinity of Chicago, with every facility for doing business 3 400 lineal feet of greenhouses bedded with plants, fitted with heating pipes, boilers, etc., windmill and tank, with pump from river; well drained, 40 feet above lake 11½ acres of ground with dwelling house, barns, tools, wagons, carts, harnesses, horses—in short, everything to continue a large and growing business. 3½ acres of fine shrubbery, apple and pear trees. Only 8 miles from Chicago City Hall. Will be sold cheap Will make the purchaser a fortune in the natural advance of Chicago property. In the meantime a business paying $8 000 profit annually can be continued. Address M E, care American Florist.

FOR SALE.

Nine Green houses and seven hotbed frames, 12 000 square feet glass with circa two acres of land and stock for sale very cheap, and on easy terms.

The houses are in splendid conditions situated in one of New England's best localities, with a large and extra good home market and established trade.

The stock represent a wholesale value of over $5,000, in good and saleable condition for spring trade. New steam boiler with 3 000 feet of pipe, cost about $1,250; 20,000 pots all sizes; tools and implements.

The price on property, land, houses with stock, heating apparatus etc, is $6,500, largest part of which can stay in the property. It is a splendid opportunity for one wishing to buy an established business, as the property is in first class condition, ready for the coming season. For further particulars write to

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THE LARGEST

Cut Flower Commission House in the United States.

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If you do not receive our regular monthly price-list write for same
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A complete line of Wire Designs.

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Orange Blossoms,
Sweet Olives,
Magnolia Fuscata
Flowers,
These most delicious of all fragrant flowers are now ready for shipment, either each variety single or all mixed in one dozen, at $1.00 per doz. by mail post paid.
R. MAITRE,
140 Canal Street,
And at "THE HOME OF FLOWERS"
St. Charles Ave. Cor. Clinton Street,
NEW ORLEANS, LA.

Wholesale Markets.

Cut Flowers.

BOSTON, March 8.

Roses, Bon Silene	3.00@ 4.00
" Gontier, Niphetos	5.00@ 6.00
" Perle, Sunset	6.00@ 8.00
" Mermets, Brides	8.00@10.00
" Waban, La France	8.00@10.00
" Jacq	20.00@25.00
Carnations	1.50@ 2.50
Violets	.50@ .75
Pansies	.25@ .50
Tulips, Daffodils	3.00@ 4.00
Valley	2.00@ 3.00
Callas	8.00@10.00
Harrisii	6.00@ 8.00
Mignonette	2.00
Cattleyas	50.00
Coreopsis	1.00
Smilax	12.00@15.00
Adiantums	1.50
Heath, per bunch	.75

NEW YORK, March 8.

Roses, Gontiers, Niphetos	3.00@ 5.00
" Cusins, Watteviles	4.00@ 6.00
" Perle, Mermets	4.00@ 6.00
" Brides, Wootton	4.00@ 6.00
" Beauties, Brunners	25.00@50.00
" Magna, Laing	25.00@40.00
" Jacqs	15.00@20.00
Carnations	1.50@ 2.00
Violets	.50@ .75
Valley, Tulips	2.00@ 3.00
Daffodils	3.00@ 4.00
Harrisii	4.00@ 5.00
Mignonette	2.00@ 6.00
Smilax	20.00@35.00
Adiantum	1.50
Cattleyas	50.00

PHILADELPHIA, March 8.

Roses, Brunners	50.00@60.00
" Laings, Luizets	30.00
" Beauties	30.00@35.00
" La France, Albany	8.00@10.00
" Mermets, Brides	6.00@ 8.00
" Cusins, Watteville	6.00
" Perles Niphetos	4.00@ 5.00
" Gontiers	5.00
Valley	3.00@ 4.00
Carnations	1.50@ 2.25
Violets	.50@ .75
Daffodils	4.00@ 5.00
Mignonette	1.00@ 3.00
Tulips	4.00@ 5.00
Romans	1.50@ 3.00
Harrisii	6.00@10.00
Smilax	20.00
Adiantums	1.00@ 1.50

CHICAGO, March 8.

Roses, Am. Beauties	15.00
" Mermets, La France	5.00
" Albany, Bride, Waban	6.00
" Bennetts, Dukes	5.00
" Perle, Niphetos	4.00
" Gontiers	3.00
" Bon Silenes	2.00
Carnations, short	.75
" long	1.50
" fancy	
Romans, Narcissus, Valley	3.00
Callas, Harrisii	12.50
Violets	1.00
Smilax	15.00
Tulips	3.00
Daffodils	4.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

See Advertisement
— OF THE —
BOSTON FLORIST LETTER CO.
ON PAGE 687 OF THIS ISSUE.

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MOSS {SPHAGNUM AND GREEN SHEET.
A1 IVY LEAVES.
BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.
Mention American Florist.

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49 West 28th Street,
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WHOLESALE DEALERS IN AND SHIPPERS OF
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Successful Shipping Our Specialty.

WALTER F. SHERIDAN,
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FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

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Wholesale Florists
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1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
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WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
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you know all about it, but do you? The use of LONG'S FLORAL PHOTOGRAPHS while taking orders of your customers will do more for you over and again than you might think. A trial is convincing to any enterprising florist. Circular list with prices, free.
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BUFFALO, N. Y.

FLORAL DESIGNS,
The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

DAISY SNOWFLAKE.
ROOTED CUTTINGS,
$1 20 per 100 prepaid.
BLOOMS OF SAME, 45 cts. per 100 prepaid.
SPHAGNUM MOSS Cheap. Delivery Aug. from Swamp. Let me price your wants.
CELERY PLANTS, Early and Late, in any quantity.
PETER J. SCHUUR, in free mail delivery limits, KALAMAZOO, MICH.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

Catalogues Received.

Robert Buist, Jr., Philadelphia, seeds; Eugene Verdier, fils, aine, Paris, France, bulbs; L. Green & Son, Perry, O., nursery stock; Wm. G. McTear, Princeton, N. J., chrysanthemums, E. Y. Teas, Irvington, Ind., nursery stock; Wm. Stahl, Quincy, Ill., nursery stock and spraying outfits; Pitcher & Manda, Short Hills, N. J., seeds, plants and bulbs; E. W. Reid, Bridgeport, O., nursery stock; H. J. Jones, Lewisham, England, chrysanthemums; Fred W. Kelsey, New York, ornamental nursery stock; Schlegel & Fottler, Boston, seeds; C. P. Dieterich & Bro., Maysville, Ky., plants, seeds and nursery stock; Max Deegen, Kostritz, Germany, plants; Joseph Bancroft, Cedar Falls, Ia., plants; J. Palmer Gordon, Ashland, Va., plants; Stott Garden Implement Co., New York, insecticides, sprayers, etc.; Wood Bros., Fishkill, N. Y., plants; H. A. Daacke, New York, seeds; C. L. Burr, Springfield, Mass., seeds and plants; M. Crawford, Cuyahoga Falls, O., strawberries; Samuel C. Moon, Morrisville, Pa., nursery stock; Louis C. Lischy, Nashville, Tenn., plants and nursery stock; Geo. W. Miller, Chicago, trade list plants; J. M. Lamb, Fayetteville, N. C., nursery stock; W. A. Brotherton, Rochester, Mich., Michigan wild flowers.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

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Manufacturer of
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Special attention given to
Seed Bags and Catalogue Envelopes.
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Growers of CHINESE SACRED LILY,
HONG KONG.
Goods can be obtained at the following houses:
John L. Childs..... Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R Pierson..... Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

ROOTED CUTTINGS.

ALTERNANTHERA P. Major and Aurea Nana, 50 cts. per 100.

AGERATUM White Cap and Cope's Pet, 50 cts. per 100, by mail prepaid.

OTHER STOCK LATER.

Don't order more PETUNIAS and VERBENAS until quoted here.

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FLOWER You may be in the business. **SEEDS.**
Perhaps you think you know where all the good things come from—but no matter how smart you are—will it harm you before you take off your specks to write a postal for my free price list of Choice Flower Seed for growers of Exhibition Flowers.
CHARLES L. BURR,
Springfield Mass.

40 ACRES OF FRENCH BULBS IN CULTIVATION.
The most extensive cultivators in the South of France of
EARLY WHITE ROMAN HYACINTHS,
Lilium Candidum, Paper White Narcissus, Grandiflora, Double Roman, Incomparabilis, Aurantius double, Von Sion, Trumpet Major, Freesias, Allium, Anemones fulgens, A. Rosette, very early, and Cardinal's Hat, Amaryllis Vittata, Etc., Etc.
BENJAMIN RIMBAUD, Bulb Grower,
KNIGHT OF THE AGRICULTURAL MERIT, **TOULON, VAR, FRANCE.**
WILL SEND on demand THE LIST OF HIS PRICES for the aforesaid Bulbs, to be delivered free Toulon Railway Station, and also free from packing and carriage expenses on board TO NEW YORK.

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Seedsmen and Horticultural Auctioneers.
CATALOGUES MAILED ON APPLICATION.
Our Spring Auction Sales Commence on or about March 1.

IMPORT BULB PRICES *CAN BE MADE NOW F. O. B. CHICAGO OR NEW YORK.*
FIRST CLASS STOCK, PROMPT SHIPMENT AND VERY CLOSE RATES.
TRY US; ASK FOR OUR AGENT TO CALL.
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Good sense says make the most of the first
FERRY'S SEEDS
have made and kept Ferry's Seed Business the largest in the world—Merit Tells.
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D. M. FERRY & CO., Detroit, Mich.
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Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
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SWEET PEA SEED.
NELLIE JANES,
50 cts. per ounce postage prepaid.
JOSEPH T. JANES, Park Ridge, Cook Co., Illinois.

—REMEMBER—
That we grow Tuberose and Caladium Esculentum Bulbs in quantity for the trade.
We also collect Dionea Muscipula, Nymphæa odorata, Clematis crispa, Sarracenias, and other native plants, at reasonable prices.
For prices, address
JAMES M. LAMB,
Sunnyside Nursery, *FAYETTEVILLE, N. C.*
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V. LEMOINE & SONS,
NANCY, FRANCE.
Catalogue of Novelties, including Begonias, Pelargoniums, Chrysanthemums, Gladiolus, Montbretias, etc., etc., can be had on application to their agents,
C. C. ABEL & CO., New York.

For next SIX WEEKS, I offer
100,000 ATAMASCO LILIES.
Selected, 100 for $7.00; 500 for $4.50; 250 for $3.25.
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Importers and Growers of Bulbs for Florists.

Popular Prices.

Reliable Quality.

Prompt Shipments.

Catalogues Free.



Liberal Dealings.

Faithful Representations.

Careful Attention.

Selected Stocks.

Import Orders for 1892, May Now be Booked.

SEND A LIST OF YOUR WANTS FOR SPECIAL PRICES ON

Lilium Harrisii, Freesia, Roman Hyacinths, Narcissus, Dutch Hyacinths, Tulips, Crocus, Etc.

CHOICE SPRING BULBS NOW IN STOCK.

GLADIOLUS.	Per 100	Per 1000
Colvilli alba (The Bride)	$ 1 00	$ 9 00
All Colors, mixed	1 50	12 00
Red Mixture	1 25	10 00
Pink and Striped Mixture	1 75	15 00
Light Mixture (no red)	1 75	15 00
White and light mixture, extra	3 00	27 50
Yellow mixture	2 50	20 00
Finest named sorts	3 50	30.00
TUBEROSES.		
Selected Pearl	1.25	10.00
Double White	1.25	10 00
Second Sized Bulbs	.75	6.00

CALADIUM.	Per 100
Extra large bulbs, 4 to 5 inches diameter	$10 00
Medium bulbs, 3 to 4 inches diameter	6 00
Small bulbs, 2 to 3 inches diameter	3 50
CANNA.	
Mixed	5 00
Robusta (best tall dark bronze leaf)	4.00
New Dwarf French	7.00
MADEIRA, or MEXICAN VINE.	
Good sized roots	1.50

DAHLIAS.	Per 100
12 varieties, assorted, good mailing size	$ 5 00
20 " good size, whole roots	7.50
10 " extra large, 2 to 4 lbs. each	12 00
DIELYTRA SPECTABILIS.	
Extra large and fine roots	5.00
LILIES.	
L. Auratum (first size)	7.00
L. Auratum (extra large)	10 00
L. Speciosum album	12.00
L. Speciosum roseum	9.00
L. Speciosum rubrum	9.00

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WAREHOUSE: 246 N. BROAD ST.,

Telephone No. 1298. REGISTERED CABLE ADDRESS: De FOREST, PHILADELPHIA.

Chicago.

The first half of the busy season is over and things will be quiet for a few weeks. Last Wednesday ushered in the Lenten season; only a week and what a change in the market! Flowers are plenty enough now and prices have taken a tumble.

The weather is still bad, but the few days of bright sunshine we had has made a wonderful difference in the cut of roses. The quality also is fast improving. Jacks are coming in at last in liberal quantity, of fairly good size and quality. Hybrids are rather slow yet. A few Anna de Diesbach, Paul Neyron, and here and there a Brunner, comprise the list.

Violets threaten to become a glut. This stock is very fine at present; the demand for this favorite flower is still heavy but the cut is so large that it is difficult to dispose of the whole. In consequence the price has dropped considerable. The finest stock can be bought for $1 and very fine quality at from 50 to 75 cents.

Callas are overstocked and often sold at a sacrifice. Harrisiis are holding their own this season. With a liberal cut every flower was marketed at a good price. Last year at this season you could hardly give them away. We hope to see no such glut again, but Easter is very late this year and a number of batches which are intended for Easter trade will surely come in several weeks too soon.

Carnations come in finer than ever but more or less stock is accumulating in the commission men's hands and prices are coming down. The average price for long stemmed flowers is $1.50 and for extra choice lots from $1.75 to $2.

DIRECT FROM
THE GROWER IS THE CHEAPEST AND BEST WAY TO BUY. ∴ ∴

HULSEBOSCH BROS.,
Dutch Bulb & Plant Growers.
OVERVEEN, NEAR HAARLEM, HOLLAND.

ARE NOW BOOKING ORDERS FOR
Roman Hyacinths,
Convallaria Pips,
Tulips, Roses, Freesias,
Paper White Narcissus,
Dutch Hyacinths.
Narcissus, Azalea., Indica, Etc., Etc.

ESTABLISHED 8 YEARS IN NEW YORK CITY.
ASK FOR PRICE LIST.
Everything Free on Board Cars, New York City. ∴ ∴ ∴
Address A. HULSEBOSCH,
P. O. BOX 3118, NEW YORK CITY.

ROMAN HYACINTHS, PAPER WHITES,
Lilium Harrisii, Berlin Pips Lily Valley, Tuberoses. Azalea Indica, etc.
PRICES QUOTED and ORDERS BOOKED FOR SUMMER AND FALL DELIVERY.
C. H. JOOSTEN, Importer,
3 COENTIES SLIP, NEW YORK.
Mention American Florist.

WE BOOK NOW FOR SUMMER AND FALL DELIVERY ORDERS
Roses, Palms, Azaleas, Clematis, Rhododendron, Laurus Tinus, Laurus Nobilis, etc.
Roman and Dutch Hyacinths, Paper whites, Daffodils and other Narcissus, Tulips, Freesia, Spirea, Crocus, Lilium, Harrisii, Candidum, Longiflorum, Auratum, Calla, Lily of the Valley, etc.
TERMS AND ESTIMATES ON APPLICATION
ADDRESS:
AUGUST RÖLKER & SONS,
136 & 138 W. 24th St.,
ADDRESS LETTERS: STATION E.
NEW YORK.

IMPORTED BULBS.
Closest Special Prices on all these stocks: Romans, Harrisii, Freesias, Narcissus, Etc., Etc., f. o. b. New York City. Cash buyers can realize good concessions. Send us your list for pricing.
J. W. ELDERING, Importers' Agent, 78 BARCLAY ST., NEW YORK.

BULBS. GLADIOLUS, DAHLIAS, TUBEROSES, CALADIUM, ETC. ETC.
J. C. VAUGHAN, P. O. Box 688, CHICAGO.
GREENHOUSES: WESTERN SPRINGS, ILL.

W. W. BARNARD & CO., SEEDSMEN
6 & 8 North Clark Street, CHICAGO
Offer to the trade choicest strains of
Flower and Vegetable Seeds. Spring Bulbs; full line of good stock.
FERTILIZERS, CANE STAKES, SPHAGNUM MOSS, ETC. Spring Trade List Ready.
IMPORT PRICES READY NOW ON
Lilium Harrisii, Roman Hyacinths, and Von Sion Narcissus.
LET US ESTIMATE ON YOUR WANTS.

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IF SO, GO TO

THOMAS S. WARE

FOR THEM.

He is recognized all over the World as having the

Largest and Most Complete Collection on Earth.

The large families are grown by the acre, and the annual output is simply enormous. Among the great specialties are

CLEMATIS,

thousands of which are annually sent to America. The collection is unique, and the quantity grown immense. To meet the enormous demands has necessitated a great increase in my producing powers, not only in quantities, but in particular to enable me to furnish **stronger tops.**

BEGONIAS.

The sales this season of the Begonia tubers and seed, both double and single have far exceeded my expectations, and at the present moment the stock is exhausted of many of the sections. The machinery for next season's output has been enlarged, and I hope then to have not only the **largest stock, but the finest collection ever seen.**

OF PYRETHRUMS

From present appearances I expect to have for fall delivery about **40.000 Clumps,** including all the very best varieties in cultivation, all strong clumps from ground—not small plants in pots.

NARCISSUS.

Of the popular market varieties such as **Von Sion, Obvallaris, Stella, Princeps, Major, Maximus,** and others, I have the

LARGEST STOCK IN EUROPE.

All grown expressly for forcing. The old **Von Sion** is an extra fine stock, as many of my American friends know. My general collection is also very fine and contains all the very best of every section, all of which are described in my Bulb Catalogue, Part II, copies of which may be had upon request per postal card.

PÆONIAS.

A great specialty; **Singles,** a fine collection; **Doubles,** every variety worth growing, and **Tree Pæonies,** the best of the Japanese and French raisers; the common varieties, such as the **Double Crimson, Double Rose, Double White** I grow in very heavy lots, and at all times shall be pleased to make special quotations.

HARDY PERENNIALS.

My collection is admittedly the most comprehensive and useful collection known. Every hardy plant worth growing will be found in one or the other of my numerous catalogues. To give some idea of the extent of my collection I may mention that the details take up the space of

Twelve Catalogues Annually Published,

all illustrated, full of information, and which together will be found a splendid guide to Hardy Plants.

ALL CATALOGUES FREE ON APPLICATION.

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Hale Farm Nurseries,

TOTTENHAM, LONDON, ENGLAND.

Tuberous Begonias.

"NULLI The Cups and Gold Medals Collection. SECUNDUS"

JOHN LAING & SONS,

Invite their American and Colonial Friends to come during the summer months and see their **Fields and Glass Houses of Single and Double Begonias,** for themselves—as seeing is believing. J. L. & SONS have been awarded **Two Silver Gilt Cups** (1st Prizes), **Four Gold Medals and highest honors whereever exhibited.** See records of 1890–1.

Being the FIRST and by far the LARGEST Growers in the WORLD, we are in a position not to be UNDERSOLD by any respectable House or Dealer. We can still offer for a few weeks Dry Tubers,

100, 1,000 or 10,000,

in separate colors or mixed, **Single and Double varieties.** Don't fail to call.

DESCRIPTIVE CATALOGUES MAILED FREE.

JOHN LAING & SONS,

Begonia Growers, Seed, Plants, Bulb and Tree Merchants,

FOREST HILL, S. E. ENGLAND.



TUBEROUS BEGONIAS, Seeds and Bulbs.

Our own grown Superior Strains.

TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

TESTED SEEDS of VICTORIA REGIA and all other WATER LILIES.

FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

ROSE HILL NURSERIES. **SIEBRECHT & WADLEY, New Rochelle, N. Y.**

TUBEROUS BEGONIAS.

NOW IS THE TIME TO SOW SEED.

SINGLE OR DOUBLE MIXED	trade pkt.	$1.00
SINGLE TO COLOR (9 colors $4.00)	"	.50

Half packets if desired. Send for new descriptive catalogue.

F. J. MEECH & SON, Charlevoix, Mich.

Tuberous Begonias.

Seedlings ready end of this month. In separate colors, per hundred, $3.00; mixed, $2.50. Delivered by mail or express. Safe arrival guaranteed.

BRAUER & RICHTER, McConnelsville, Ohio.

SURPLUS STOCK.

	Per 100
Abutilons	$3.00
Agathea Celestis	4 00
Alyssum, 3 varieties	3.00
Ageratum, white and blue	3 00
Begonia Rex in variety	5 00
Begonia Rex, Lucy Closson	10 00
Begonia Listri or Diadem	8 00
Begonia Metallica	4 00
Coleus	3 00
Carnations Mrs. Fisher and DeGraw	3 00
Carnation Golden Gate	4 00
Chrysanthemums	3 00
Cannas, mixed	4 00
Cannas, Ehemanni	8.00
Crozy's Cannas, send for list.	
Cestrum Parqui	6.00
Fuchsias in variety	3 00
Heliotrope	4 00
Hydrangea, Red Branched, 2 in	8.00
Hydrangea Red Branched, 4 in	15 00
Hydrangea Thos. Hogg, Hortense, 2 in	4.00
Hydrangea Thos. Hogg, Hortense, 4 in	12 00
Hoya Carnosa, 3 in	8 00
Hoya Carnosa Variegata	15.00
Impatiens Sultani	5 00
Ivy, English, fine	5.00
Jessamine Grandiflora	8 00
Manettia Vine	4.00
Marguerite Daisy	3 00
Oxalis, pink and white	3 00
Primula Obconica	3.00
Passiflora Constance Elliott	4 00
" " Variegata	4.00
Vinca Major Var., strong, 4 in	10.00

I. N. KRAMER & SON, Marion, Iowa.

WESTERN FLORISTS

PLEASE READ THIS.

ROOTED CUTTINGS.

	Per 100.
CARNATIONS—Portia, Garfield, Pink Garfield, Mrs. Fisher, Lamborn, Fred Creighton, Hinze's White	$ 1.00
FUCHSIAS—Best varieties	1.25
HELIOTROPE	1.00
CHRYSANTHEMUMS—40 varieties	1.50
ALTERNANTHERA—A. Nana	.40
ROSES—Perle, Sunset, La France, Hermosa, Clotilde Soupert, Niphetos	2.00
COLEUS—20 varieties	1.00
SWEET ALYSSUM	.50
STEVIA	1.00
PLANTS FROM 2¼ IN POTS.	
FUCHSIAS—Best varieties	3.00
" 3 in. pots	8.00
MANETTIA—Bi-color	3.00
GERANIUMS	3.00
ROSES—Perle and La France	3.50
HELIOTROPE	3.00

WE WILL TRY TO PLEASE YOU.

HEITE FLORAL CO.

712 Linnwood Ave., Kansas City, Mo.

P. S. Add 10 cts per 100 on rooted cuttings by mail.

Rooted Cuttings.

CARNATIONS, CHRYSANTHS, GERANIUMS, COLEUS, VERBENAS and MISCELLANEOUS BEDDING PLANTS. Cheap for cash. Send for price list.

JOHN J. CONNELLY, BRYN MAWR, PA.

Pennsylvania Items.

Robt Craig, W. K. Harris and, E. V. Hallock, while on a visit to West Grove, Pa., were delightfully entertained by A. F. Conard, G. H. Leahey and Antoine Wintzer at the West Grove Hotel (Temperence house of course).

They found "The Rose" establishment running full blast, plants looking clean, thrifty and growing like fun, free from all those diseases so common to the rose and so ably discussed by most growers. They are roses first, last and all the time apparently; still shrubs cut quite a figure. They are propagating Viburnum plicatum successfully. Any one who has tried to grow this will know what that means.

Calls were made on several carnation growers between Philadelphia and West Grove, the presence of Mr. Craig proving an "Open Sesame" everywhere. Many carnations are acting badly even with the best growers this year. Some have been swept clean, while others are slow to produce flowers, and plants look bad. Plants in the carnation belt are no exception to those grown in the old carnation districts. And Robt. Craig has as fine a house of them as I ever saw, healthy and flowers thick as clover heads.

Robert imports no more palms, he has paid his money, "learned the trick" and will grow them himself in future. He has a fine house of araucarias and showed me how much superior plants grown from cuttings were, over those grown from seed. The former are beautifully furnished down to the pot, while the seedlings are very weak in this respect for some inches up.

We called on Mr. Maule. He is much interested, and is working like a Practical Farmer to increase the circulation and improve his paper. It ought to be a good advertising medium.

A calm quiet has evidently taken possesion of Mr. Burpee which presages the important event. A visit to his seed store discloses the vigor of his touch, and the smoothness of a well organized business. We all wish him well. H.

New, Rare and Beautiful Plants, ORCHIDS, ETC.

A collection of the most beautiful Fancy Caladiums ever offered; with the Newest and Rarest Hothouse and Greenhouse plants, carefully grown, and at low rates.

ORCHIDS. A very extensive collection: East Indian; Mexican; Central, South American, etc.
Hardy Perennials, Roses, Clematis, Peonies, Phloxes, etc.
New and Rare Standard Fruits; Rare and Beautiful Trees and Shrubs, Evergreens, etc.

Catalogues on application.

JOHN SAUL, Washington, D. C.

Orchids.

Established and Fresh Imported—Specially Cattleyas; very useful for cut flowers, at greatly reduced prices.

Best quality of Orchid Peat. Write for price list.

FREDERICK MAU,
P. O. Box 322. SOUTH ORANGE, N. J.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 235 Greenwich Street, New York City.

We will print your spring trade list on this page and circulate it to 5,000 buyers for 42.

SENSATIONAL NEW ROSE OF 1892.

"This is the most beautiful pink rose known."—JOHN N. MAY, M. A. HUNT.

BRIDESMAID nee THE HUGH.

After consulting a number of the leading rose growers and retailers, I have decided to change the name of THE HUGH as above, and henceforth it will be known only as BRIDESMAID.

"The consort of The Bride."—*Littlejohn.*

Perfect in growth and behavior.

From 2-inch pots.		From 2-inch pots.		From 4-inch pots.	
12 plants	$ 0 00	250 plants	$ 90.00	1 plant	$ 1.50
50 plants	25 00	500 plants	150 00	12 plants	15.00
100 plants	40 00	1000 plants	240.00	25 plants	25 00
				50 plants	40.00
				100 plants	75 00

☞ Circulars on application.

FRANK L. MOORE, Chatham, New Jersey.

ROSES, COMPLETE STOCK.

SEE OUR "BOOK FOR FLORISTS."

J. C. VAUGHAN, P. O. Box 688, CHICAGO.

GREENHOUSES, WESTERN SPRINGS, ILL.

WABAN ROSE. Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

JACK ROSES.

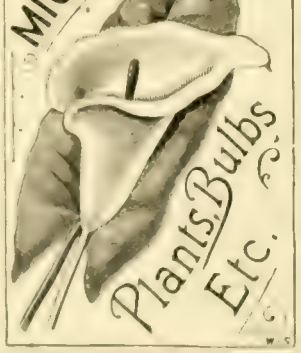
5,000 1 year old, 2½ to 3 feet high, well branched, $15.00 per hundred.

1,500 2 year old, 3 to 4 feet high, $18.00 per hundred.

JORDAN FLORAL CO.,
706 Olive St., ST. LOUIS, MO.

GEO. W. MILLER,
WHOLESALE * FLORIST,
1748 N. Halsted Street,
Chicago, Ill.

ROSES AND PALMS A SPECIALTY.



Write for wholesale list.

MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

CINERARIAS, 2½-inch pots.....$4 00 per 100
BOUVARDIAS, 3-inch pots, strong.....$4 00 "
FORCING ROSES, strong.....$5 00 "
REX BEGONIAS and DOUBLE YELLOW OXALIS

McCREA & COLE, Battle Creek, Mich.

DAWSON AND

Wichuraiana Roses. Every lover of plants must have these and other Novelties which we shall have ready for delivery in April. Descriptive catalogue of these and of an unsurpassed stock of Trees, Roses, Rhododendrons, Rare Conifers, Choicest Perennials, etc., sent free.

WM. C. STRONG & CO.,
WABAN, MASS.

ROSA WICHURAIANA and CLEMATIS PANICULATA

are two of our Specialties. Very fine stock. See our WHOLESALE TRADE LIST now ready. If you have been missed, drop us a line.

THE READING NURSERY,
JACOB W. MANNING, Prop.,
Established in 1854. READING, MASS.

HARDY ROSES

(For Fall Planting.)

The largest stock in America. | NEWEST VARIETIES FINEST PLANTS.

Complete Catalogue FREE. **ELLWANGER & BARRY**
Mt. Hope Nurseries, ROCHESTER N.Y.

TRY **DREER'S GARDEN SEEDS**

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting, including two New Grand Bedding varieties:

FRANCES B. HAYES, AND OAKMONT,

HYBRID BOURBON. **HYBRID REMONTANT.**

Extra fine Selected Stock for the Trade.

JOHN N. MAY, SUMMIT, N. J.

ROSES.

A Chance to Triple your Money.

NOW READY. (Safe Arrival Guaranteed.)

50,000 ROSES, from 2-in. pots, $3 per 100; $30 per 1000.

Plant in 3 inch pots, and they will bring you from 10c to 15c each readily.

50,000 ROSES, from 3-in. pots, $5 per 100; $50 per 1000.

Plant in 4-inch pots and they sell readily from 20c to 25c each.

N. B.—Our stock is not forced nor are the plants long and drawn, but have an abundance of leaves and roots.

Varieties you can select from by the 100 or 1000, provided one or the other sorts is not sold:

Agrippina,
Archduke Charles,
Aline Sisley,
Archduchess M. Immaculata
Bon Silene,
Chas. Rovolli.
Comt. de Labarthe (D. de Brabrant),
Catherine Mermet,
Coquette de Lyon,
Hermosa,
Etoile de Lyon,
Gloire de Dijon,
Jules Finger,
La France,
Lady Washington,
Louis Phillipe,
Marie Guillot,
Malmaison,
Marie Van Houtte,
Miss Ethel Brownlow,
Mme Caroline Kuster,
Marechal Niel,
Mme. de Watteville,
Mme. Pauline Labonte,
Mme. Brett,
Mme. Abel Carriere (M. Noisette),
Mme. Jos. Schwartz,
Mme. Laur Marring, (pure new Bengal),
Ophelia.
Perle des Jardins,
Queens Scarlet,
Rubens,
Suzanne Blanchet,
Sombreuil,
The Bride,
Reine Olga,
Pink Daily,
Nic de Waulier,
Waban.

We also have **50,000 HYBRID ROSES,** strong, 2-inch pots in 25 best leading sorts, $5 per 100; $50 per 1000.

20,000 4-INCH POT ROSES, $10 to $20 per 100 according to variety and quality.

POT ROSES, in bud and bloom, $20 to $25 per 100.

Wholesale and Retail Catalogue upon application. Lists cheerfully priced and samples mailed if desired.

FOR EVERYTHING IN THE FLORIST LINE.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

ROSES.

Hybrid Perpetual Yellow and Rugoso

Strong Plants.

☞ WRITE FOR PRICES.

GEO. MOULSON & SON.,
UNION NURSERIES.
ROCHESTER, N. Y.

SPECIAL OFFER. Per 100

Var. Rose Geraniums, 2½ inch	$ 5 00
Begonia Manicata aurea, 2½-inch	10 00
Begonia Rex, assorted	4 00
Bouvardia Elegans and Davisonii, root cuttings from flats	1.00

JOS. E. BONSALL & SON, Salem, O.

ROSES FOR FLORISTS

La France, Perles, Gontiers, Woottons, Mermets, Brides, Niphetos; best quality, two eye cuttings,

FROM 3-INCH POTS, $5.00 PER 100.

We also have a large and well selected stock of **DOUBLE PAEONIES** of all colors, which we offer, single eyes, $5.00 per 100.

FOREST GLEN FLORAL CO.,

250 West Madison Street, CHICAGO.

ROSES.

From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and Duchess of Albany, at $5.00 per 100; Meteor, at $6.00 per 100; American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

CHRYSANTHEMUMS,
leading varieties, 2½-inch pots, $5 per 100.

We are headquarters for the Meteor and Climbing Perle des Jardins.
ALL FINE HEALTHY STOCK.

JOHN HENDERSON CO.,
Flushing, N. Y.

ROSES.

Strong, healthy plants of La France, Mermet, Bride and Watteville, 4 inch pots, $5.00 per 100; $40.00 per 1000. 2½-inch pots, $3.50 per 100; $30.00 per 1000.

CARNATIONS.

Hinze's White, Portia and Grace Wilder, from 2½-inch pots, $2.50 per 100. Rooted Cuttings, $1 00 per 100.

ROOTED CUTTINGS.

Heliotrope, $1.00 per 100; from 2½-inch pots, $2.00.	
Ageratum, white and blue, Alternantheras, Coleus and Gnaphalium lanatum, Sweet Alyssum,	75 cts. per 100; from 2½ inch pots, $1.50.

JAGD & CO.,
Springfield, Mass.

FOR SALE IN 2 IN. POTS. ROSES.

La France, Mermets, Brides and Perles.

☞ Write for Prices.

PETER E. SHEETZ,
3513 Kensington Ave., Philadelphia, Pa.

ROSES.

	Per 100
Perle, Niphetos, Bride, C. Mermet, 2¼-inch pots	$3.00
Souv. de Wootton	5.00
Geraniums, best sorts, my selection	2.50
Rose Geraniums, 2½-inch pots	3 00
Geranium Ivy L'Elegant	3.00
Geranium Souv. de Miranda	3.50
Dracæna indivisa, 2-inch	5.00
Begonias, Rubra, Metallica	$4 to 6.00
Tigridias, red	3.00
Amaryllis Formosissima	3.00

E. HIPPARD, Youngstown, O.

Write for circular of new patent Hose Mender; also Ventilating Machines.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

FINEST STOCK FOR FORCING IN THE NORTHWEST.

SMITH FLORAL CO.,
77 Seventh Street, MINNEAPOLIS, MINN.

Mention American Florist.

Toronto.

Several more valuable prizes have been lately offered for competition at the coming chrysanthemum show, amongst the number another silver medal (which makes two), a silver cup and various money prizes. The cup is given by Mr. J. A. Simmers, seedsman, a money prize from The Steele Bros. Co. and the rest from private gentlemen interested in the success of the show and in horticulture generally. This news will no doubt make the boys hustle. The prospects at present are good for the "best show on record" in this locality, I may say in this dominion, and I think I might say even on this continent as regards quality.

The customs department has been up to its tricks again. The writer was mulcted to the extent of 11 cents on P. Henderson's catalogue and 6 cents on Vaughan's. These and other petty annoyances of a like nature at the hands of a paternal (?) government have had the effect of making at least one ardent convert to the principles of free trade. The strange part of this catalogue business is that some are delivered by the letter carriers without going through the custom house at all whilst others are detained, but as far as I can see there seems to be no discrimination, it appears to be a "happy go lucky" way of doing business, and it just depends upon what clerk happens to handle the packages when received and whether it is near meal times, whether he chucks them into the custom house or to the letter carriers.

Lent is upon us and figuratively speaking the righteous have clothed themselves in sack-cloth and ashes and put peas (boiled) in their boots. However the various florists' stores look temptingly gay and though trade may have fallen off some there is still enough doing to make the day's sales pay for "three meals and a nightcap." E.

SAMPLES of the invisible bouquet pin have been sent us by Mr. G. B. Willcox, Bay City, Mich. They seem admirably adapted to the purpose for which they are intended.

FOR EARLY CASH ORDERS.

	Per 100	Per 1000
Cinnamon vine. (Dioscorea)	$2.50	$18.00
Hardy Day-blooming Moon Flower (Ipomœa pandurata) Northern grown tubers	4 00	30 00
Hyacinthus Candicans 2 and 3 years,	1.50	10 00
Hyacinthus Candicans 1 year,	.75	5 00
Double Hemerocallis, (H. Distichia fl. pl.)	6 00	
Lily Elegans, (Fulgens)	5.00	
Lily Double Tiger	3.00	20 00
Montbretia Crocosmiæflora	3.00	
Montbretia Gerard Or, dwarf, clear yellow	12 00	
Gladiolus Sandersoni	15 00	
Gladiolus Purpurea auratus	1.50	10 00
Madeira Vine	1 00	5.00
Pancratium (Spider Lily) home grown	5 00	
Tritoma uvaria	4.00	

Price list free. E. Y. TEAS, Irvington, Ind.

— Prices Greatly Reduced. —

CAPE COD PINK POND LILY.

For price list, Plants and Cut Flowers, address the original cultivators,

CHIPMAN BROS.,
SANDWICH, (Cape Cod), MASS.

CARNATION MRS. L. FAWCETT.

A large lot of Rooted Cuttings of this magnificent new pink variety now ready, $16 00 per 100, $50.00 per 1 000.

L. FAWCETT, Carnationist, SALEM, OHIO.

CARNATIONS.

Rooted Cuttings of the three leaders in the Boston market, TIDAL WAVE, SILVER SPRAY and PORTIA; extra fine stock at lowest prices.

H. L. CAMERON, No. Cambridge, Mass.

New Double White Daisy Snow Crest.



A most distinct variety and an improvement on all existing sorts. Its habit of growth and size of flowers, in comparison with older varieties, is gigantic. The flowers, which are borne on stout, stiff stems from 6 to 10 inches long, are of the purest white and full to the center. When fully developed they rise to a conical or sugar-loaf form, and well grown specimens will cover a silver dollar.

It makes an admirable hardy garden plant or may be forced for cut flowers under the same treatment as violets. $2 per doz.; $15 per 100.

Dreer's Quarterly Wholesale List now ready; mailed free to the trade on receipt of business card.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

W. R. SHELMIRE,

AVONDALE, Chester Co., PA.

Rooted CARNATION Cuttings.

SEND FOR CIRCULAR.

DAYBREAK

And seventy other varieties of

CARNATIONS,

Including all the new kinds. Send for price list.

GEO. HANCOCK, Grand Haven, Mich.

30,000 ROOTED CUTTINGS.

CARNATIONS

NOW READY.

Send for Price List.

I. LARKIN,
TOUGHKENAMON, CHESTER CO., PA.

Rooted Carnations.

	Per 1000	Per 100
HINZE'S WHITE	$10 00	$1 25
PORTIA	12 50	1 50
GRACE WILDER	12 50	1 50
SILVER SPRAY	12 50	1.50
LAMBORN	15.00	1.75

Cuttings put in Jan. 1, on Feb. 8 99 per cent. were well rooted.

DE WITT BROS.,
Cash with order. BRISTOL, PA.

ROSES, CARNATIONS, VIOLETS,

Bouvardias, Chrysanthemums, double white and single Primroses, Echeverias Alternantheras, Smilax, Coleus, Begonias, Poinsettias, Cyclamens, Adiantums, Geraniums, Fuchsias, Pandanus Veitchii, Ferns, Hydrangeas, Palms, Dracænas, etc. Healthy plants; large stock, and low prices. Best new and old varieties. Write for price list.

HENRY SMITH,
'30 Monroe St., GRAND RAPIDS, MICH.

PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
SMILAX, 2½ inch pots	$1.50	$12.00
Rooted Cuttings CHRYSANTHS, ready March 1st	2 00	15.00
AMPELOPSIS VEITCHII, 3 in. pots, strong, at	5.00	

Address J. G. Burrow,
FISHKILL N. Y.

CARNATIONS.

Send for trade list of ROOTED CUTTINGS.

J. J. STYER, CONCORDVILLE, PA

50,000 Rooted Cuttings CARNATIONS.

Standard Varieties and Novelties.

Send for Price List.

WILLIAM SWAYNE,
P. O. Box 226. Kennett Square, Pa.

CHEAP STOCK.

To make room, we are offering the following: Carnation McGowan, Christmas, Golden Gate, Hector, at $3.50 per 100. $32.00 per 1,000, Mrs. Fisher, $3.00 per 100: $25.00 per 1,000.

All from 2 and 2½ inch pots, are in the very finest of condition; true to name and perfectly healthy.

E. M. GIDDINGS, Corfu, N. Y.

50,000 ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.

Also an unlimited quantity of pips of the above varieties. Send for price list.

JOSEPH RENARD, Unionville, Chester Co., Pa.

WHY NOT GROW THE BEST? CARNATIONS,

VERBENAS, DAHLIAS, CHRYSANTHEMUMS, HYDRANGEAS, COLEUS, ETC.

Illustrated catalogue of rooted cuttings and plants mailed on application.

26 Floral Ave. VICK & HILL, Rochester, N. Y.

The beautiful PINK CARNATION NELLIE LEWIS our Specialty.

Eucharis Amazonica.

AMAZON LILY,

We have 1,500 bulbs of this peerless Lily. Flowering size bulbs $15. per 100, smaller size $10. per 100. If you have a nice warm corner in your greenhouse, plant them out on a bench, now is the time. Cash with order at this very low price. Will pack light.

ADAM BALMER, MGR.,
English's Greenhouse. Danville, Ill.

CARNATIONS

Rooted Cuttings, 50,000 now ready of the following varieties:

Silver Spray, Hinze's White, Mrs. Fisher, Jeannette, Portia, Grace Wilder, Fred Creighton, Anna Webb, and Century,

$1.00 per 100; $10.00 per 1000.

Hector and Florence, $2.50 per 100, American Flag, $2.00 per 100.

Fuchsias, finest varieties	$ 1.50 per 100
Heliotrope	1.00 "
Ageratum dwarf white and blue	1.00 "
Petunias dbl. white and variegated	2.00 "
Bouvardia double pink and white, stock plants	10.00 "
Pansies from seed bed, extra fine	5.00 per 1000
Daisies	3.00 "
2000 field grown Jack Roses	10.00 per 100

Cash with order. 10 cts. per 100 extra when ordered shipped by mail.

JAMES HORAN, Florist,
BRIDGEPORT, CONN.

CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named **"DORINDA,"** a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

R. T. LOMBARD,
WAYLAND, MASS.
Please mention American Florist.

AURORA.

Winner of the Ladenburg Cup for best pink

CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

Send for general price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

PURITAN.

NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:

Rooted Cuttings.....$8 per 100; $70 per 1000
From 2¼-inch pots, $12 per 100; $100 per 1000.

Send for catalogue with full description of this and other varieties.

WOOD BROTHERS, Fishkill, N. Y.

NOTICE.

WHEREAS, Parties in the trade, contrary to agreement and general understanding, and in violation of the principles of business honor and integrity, are offering, and selling, rooted cuttings of Lizzie McGowan Carnation at a much less price than they agreed to so offer and sell the same. And

WHEREAS, I have the largest, finest, and healthiest stock in the country of this superb carnation, therefore, be it

RESOLVED, That hereafter my price for fine, strong well rooted cuttings of this valuable pure white **LIZZIE McGOWAN** Carnation will be $20 00 per thousand, and five hundred at thousand rate.

H. E. CHITTY.

Paterson, New Jersey, Feb. 10, '92.

ROOTED CUTTINGS OF

Lizzie McGowan
CARNATION.

$3.00 per 100; $25.00 per 1000.

JOHN McGOWAN, Orange, N. J.

ROOTED CUTTINGS.

150,000 CARNATIONS NOW IN THE SAND. OTHER STOCK IN QUANTITY

CARNATIONS. Lizzie McGowan, Mrs. Fisher, L. L. Lamborn, Hector, Grace Wilder, Christmas, Chester Pride, and other new and standard sorts. $10 to $25 per 1000.

COLEUS. A very choice assortment, perfectly clean and well rooted. A large stock of Golden Bedder, Verschaffeltii, and the new Golden Verschaffeltii. $7 per 1000; 90c. per 100.

GERANIUMS. The cream of the best sorts only. Well rooted cuttings in assortment; the quality makes them cheap at the price. $15 per thousand; $2 per hundred.

Lancaster Beauty Verbena. The finest novelty ever offered. Entirely distinct from all others. It sells at sight, and no florist can afford not getting it. Perfectly clean, well rooted cuttings, at $2 per hundred.

SMILAX. My plants once reset have made their own reputation. If you have not seen them, send ten cents for samples and you will save some money. Will have some 300,000 of them and no plants potted up to sell this summer. Price $6 per 1000; 75c. per 100.

PANSIES. My stock of Pansies is rather limited this spring and a bit late, but will have fine blooming plants early in April, at $12 to $15 per 1000 according to size.

Fall Grown Pansies. These are ready for delivery Aug. 20th and after. They are sent from Maine to California and from Montreal to the Gulf of Mexico, and are giving the best of satisfaction everywhere. No better strain in America—please bear this in mind.

French Canna. Choice collection. My assortment at $7.50 per 100, strong bulbs.

SEND FOR LISTS. SATISFACTION ASSURED.

L. B. 338. **ALBERT M. HERR, LANCASTER, PA.**

GET MY LIST BEFORE YOU PURCHASE

CARNATIONS.

Finest NOVELTIES of the year, and best Commercial varieties.

ALEX. McBRIDE, ALPLAUS, N. Y.

COLEUS.

Best assortment in the country. All the good Bedders.

GERANIUMS.

Good Bedding varieties in best colors.

ROOTED CUTTINGS ONLY.

ROOTED CARNATION CUTTINGS.

NOW READY. UNSURPASSED IN QUALITY.

Golden Gate, grandest new pure yellow; J. R. Freeman, fragrant crimson scarlet; Constancy, glowing bright scarlet; $3.00 per 100; $25.00 per 1000. We have a fine stock of these.

Wm. F. Dreer, magnificent fringed rose pink; Nellie Lewis, light pink streaked with darker hue; $3.00 per 100; $25.00 per 1000.

IMPROVED Grace Wilder, the standard pink shade; $2.00 per 100; $15.00 per 1000.

Price of all other standard varieties on application. For well established plants from small pots see illustrated catalogue, mailed free.

Best home grown Double Excelsior Pearl Tuberose bulbs, $8.00 per 1000 by express.

CHAS. T. STARR, Avondale, Chester Co., Pa.

CARNATIONS—ROOTED CUTTINGS.

McGOWAN, BRIDE, WILDER, PORTIA, FISHER, BUTTERCUP, LOUISE PORSCH, and other new and standard varieties.

ROSES, CANNAS, GERANIUMS, VERBENAS.

Superior strains of PANSIES, ASTERS and VERBENA SEED. Special attention given to the EARLIEST VEGETABLE SEED. Sweet Corn, Peas, Tomatoes, Beets, Potatoes.

☞ Large Illustrated Catalogue and Trade List free.

C. E. ALLEN, Brattleboro, Vt.

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN,** besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

Always mention the American Florist when writing to advertisers.

30,000 CARNATION CUTTINGS

NOW READY.

Silver Spray, Mrs. Fisher, Portia, Grace Wilder, Florence, Chas. Henderson, $1.00 per 100; $9 00 1,000. Coll Wilder, Ferdinand Mangold, Tidal Wave, May Queen, Fred Creighton, $1.50 per 100. 10 cents per 100 extra by mail.

Fall struck, Mrs. Fisher, Coll Wilder, Florence, Ferd. Mangold, out of 3 and 3½ inch pots, ready for 4 inch. Will make splendid stuff for Spring sale, $4 per 100. Cash with order.

S. J. REUTER,
WESTERLY, RHODE ISLAND.

Baltimore.

Lent is here and sackcloth and ashes, fasting and devotion, church going and meditation are popularly supposed to be prevalent; but the scribe has observed no falling off in the attendance at the high priced restaurant where he and others of his trade occasionally lunch. The sackcloth looks most remarkably like silk and ashes are scarce unless made from cigars. The church going does not glut the pews and to judge from the card parties, private theatricals, fox hunting meets and little entertainments for sweet charity's sake, meditation is about as usual.

There are private dinner parties—very private for fear of talk; promenade parties, which take the air on Charles street when the weather is fine; and even church parties composed of young ladies who attend Lenten services in gala dress and are afterwards joined by their gentlemen friends with violets in their buttonholes and silver mounted canes in their gloved hands.

All this calls for flowers, and as many growers time their stuff to come any time but in Lent there is good demand for all that is offered this week at the same prices as prevailed last week.

Owing to the cloudy, cool weather violets have gone off a little in quality and quantity and yellow buds are quite scarce, so is smilax, but otherwise the supply is fairly up to the demand. Of course there will be few big decorations for the next 30 days and the people who mostly get them up will feel the loss, but those who depend on funeral work will see no difference in the trade, and those who depend on a host of small orders will see but little. In short Lent is shorn of half its terrors to the florist here, for this is a fairly moral town at all times and doesn't have to go into spasms of repentance one month for the exceeding wickedness of the other eleven as some places do. MACK.

COLEUS

Are all ordered to April 1. **Cause:** A 1 Cuttings and advertising. Will take orders to fill after above date.

Mums and Fuchsias.

I have a nice batch in benches, rooted and ready to ship.

SEND FOR PRICE LIST.

S. B. FIELD, Roselle, N. J.

Mention American Florist.

DO YOU KNOW THE SNOWFLAKE DAISY makes one of the most attractive and salable potplants, and that we offer a fine stock of strong plants all in bud, ready to come right on for Easter, at $3.00 per 100.

3,000 Variegated Vincas, very strong, 3 inch. $3.50 per 100.

3,000 Golden Marguerite, Dwarf, large flowering, flats, $2.50; rooted cuttings, $1.50 per 100. 1000 Choice Mixed Geraniums, rooted, $1.50 per 100 post free.

10,000 Rooted Cuttings of Coleus, Heliotrope, Gem Feverfew, Fuchsias, (Hill, Phenomenal, and other fine sorts mixed.) Musk, Lobelia, Othonna and other vase plants, $1.00 per 100, post free.

1,000 Phlox, choicest strains, all colors mixed, Nana compacta and Star of Quedlinburg, flats, $2.00 per 100. Fresh Smilax Seed ½ oz. 20 cts 1 oz. 35 cts. Finest mixed double fringed Dianthus, liberal trade packet, 25 cents. Eulalia Zebrina, and Japonica, large field grown, will divide, 1st size, $12.00; 2nd size, $8.00 per 100 Bouvardias, Chrysanthemums, Violets, later 5,000 Grape Vines, standard sorts, very cheap Satisfaction guaranteed or money refunded.

Very respectfully,

J. C. GIBSON, WOODBURY, N. J.

Mention American Florist.

Sherwood Hall Nurseries.

TIMOTHY HOPKINS,

MENLO PARK, San Mateo Co., CALIFORNIA.

CARNATIONS, ROSES, VIOLETS, CHRYSANTHEMUMS AND CUT FLOWERS.

SWEET PEA SEED A SPECIALTY.

HYDRANGEAS FOR EASTER

JUST NOW IS THE TIME TO ORDER.
WHEN MORE ADVANCED THEY WILL NOT SHIP SO SAFELY.

Fine Plants of Otaksa, from 7 inch pots that will average half a dozen heads of bloom to each plant per 100	$ 20.00
Sturdy Plants, from 5 in pots, per hundred	8.00
Fine Young Stuff, $3 00 per 100. per 1,000	25 00
Strong Young Cordylines from 2 inch pots $3.00 per 100. per 1,000	25 00
Ivy Leaf Geraniums, all the finest doubles, $3.00 per 100.	

E. M. MITCHELL,
PORT HOPE, ONTARIO, CANADA.



It is Just as Easy to grow **A GOOD CROP** as a poor one, and **it costs no more** to do it. **Don't you want to know how?** Perhaps you do know; but **OUR CATALOGUE** will cost you nothing, and it may give you some new ideas. Send for it. It is **FREE.**

S. F. LEONARD,
153 and 155 West Randolph Street, CHICAGO.

WE can do something nice for you in the way of Office Stationery—Letterheads, Billheads, Envelopes and the like. Ask about them. We make Catalogues, somewhat. Just out of the woods again, and ready for the late men. Write!

J. HORACE McFARLAND COMPANY, Harrisburg, Pa.

ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.

DRACAENA INDIVISA RUBRA.

New, rich brown-red foliage, quick grower, and the best of the whole tribe.

Small pot plants, 1 ft high, that will grow to good specimens by fall, at $10.00 per 100.

Also the **GREEN VARIETY,** same size, from flats, at $4 00 per 100.

DENYS ZIRNGIEBEL, Needham, Mass.

Always mention the AMERICAN FLORIST when writing to advertisers.

Desirable Plants for Florists.

Callas; growing plants, per 100	$ 1 00
Camellias; mostly white, 4 in. per doz	2 50
Dracæna Indivisa, 5 in. per doz	2 50
Latania Borbonica; 3 in. "	1.00
" " " 5 in. "	4.00
Pandanus Utilis; very fine, 4 in. per doz	3.00
" Veitchii; from 50 cents each upward.	
Phœnix Reclinata; 5 in. per doz	3.00
Seaforthia Elegans; 2 to 3 feet, 5 in. per doz	5.00

Also; Chrysanthemums, Geraniums, Pelargoniums, Roses, Verbenas, etc. fine clean healthy plants of the best named varieties.

W. T. BELL,
FRANKLIN, PA.

OUR CUT FLOWER BUSINESS

Demands all our growing capacity, we have therefore decided to close out our entire stock of plants this season. We start the ball rolling with the following. Speak quick if you want them:

		Per 100
450	Dracæna Australis, 18 to 24 in. high	$20 00
325	" " 6 to 8 in. pots, 2 to 3½ feet high	50 00
1300	Dahlias, best vars., ground roots	8 00
	" " " single roots	3 00
900	Cannas, Crozy's Hybrids	5 00
5800	Tuberous Begonias from the finest collections on the Continent of Europe this lot gave us flowers 4 in. in diam. when growing in 2 in. pots last fall	8 00
200	Hibiscus Grandiflora, the best for florists' use, 3 inch	4 00
200	Hibiscus Grandiflora, the best for florists' use, 4 and 5 inch	8 00
3500	Ivy, English, 2 to 4 feet high	8 00
	Clematis, strong imported stock, pot grown, 8 in. pots; can now be shaken out and packed light	60 00
2200	Vincas, variegated, fine plants	8 00
2000	Echeveria Rosea, 2 to 4 in. in diam.	4 00
1000	Calceolaria, from a celebrated European grower. There was nothing on our place that attracted so much attention as did those last season; they sell at sight	6 00
7000	Hollyhocks, this lot embraces three of the finest European collections, separate colors	4 00
1000	Genista Pubescens, long graceful racemes of golden yellow pea shaped flowers, can be had in bloom Jan. 1, or can be retarded till Easter, invaluable as a pot plant or for cutting, fine plants	10 00
200	Crotons, stock plants, 8 inch, fine bushes, best kinds; a grand opportunity for any one to get up a stock of this rising race of plants, $2 each.	
1500	Pelargoniums, best varieties, 4, 5 and 6 in., fine bushy plants, 3 sizes assrt	12 00
1000	Hydrangea Otaksa, 6 inch stock	20 00
8000	Roses. We have a lot of mixed stock in 3 and 4-inch pots wintered in cold frames and in splendid condition for a shift, the stock is well ripened; the varieties in about equal proportions are La France, Hermosa, Duchess de Brabant, Marie Guillot, Malmaison, Gen. Jacq, Agrippina, Mrs. Jno. Laing, Ulrich Brunner, etc.; price if ordered before March 15	5 00
	American Beauty, splendid stock, clean and thrifty, 2½ inch pots	8 00
300	Phœnix Rupicola, 2½ to 3 feet high	75 00
1000	" " 1 foot high	30 00
750	Pandanus Utilis, 2 to 2½ feet high	75 00
100	Dracæna Fragrans, 7 inch	50 00

NOTE.—This stock is being rapidly depleted; if you see anything that you need hustle your order in or get left. April 1st we commence overhauling and rebuilding the houses in which most of this stock is growing in order to prepare them for other purposes, hence prices are a secondary consideration.

Our establishment, covering an area of 70,000 square feet of glass, is located in the heart of the city, where land is much too valuable for greenhouse purposes, and as we wish to devote more space to the cut flower business we are compelled to drop the plant trade for the present.

JOHN IRVINE CO.,
BAY CITY, MICH.

See here! the first order that reaches us for $5 worth or more of the above stock accompanied by the cash or satisfactory reference takes 100 Tuberous Begonias free. NEXT.

MONEY IN GROWING MUSHROOMS

More money in them for less outlay than any other crop. Any one with a cellar or stable can raise them. Our Primer & Price-list tells the whole story. Free. Send for it. A brick of our celebrated English Mushroom Spawn mailed, post-paid, for 25c. JOHN GARDINER & CO., Seed Growers, Importers and Dealers, Philadelphia, Pa.



☞Gardiner's Seeds:—New Catalogue for 1892 now ready. Free. Send for it.

CLEARANCE SALE.

To clear out our LARGE SURPLUS STOCK of Bulbs we offer up to April 1st,

FREE DELIVERY TO ANY PLACE.

	Per 100	Per 1000
Auratums, 7 to 9	$ 6.00	$50.00
" 8 to 10	7.00	60.00
" 10 to 12	8.00	70.00
" Monster	10.00	
Rubrum, fine bulbs	$ 8.00	$70.00
Album, fine bulbs	10.00	90.00
Longiflorum, **Monster,** 9 to 12 in	8.00	70.00

Remember we pay Freight Charges.

CYCAS REVOLUTA STEMS. **BONA FIDE STOCK.**

Refer to the best firms in the U. S. for whom we have imported thousands of pounds for 8 years.

TREE FERN STEMS, roots and fronds cut off. **ARAUCARIAS,** in sorts.

JAPAN MAPLES. **FLORISTS, TRY THEM.** Nothing more unique than their beautiful foliage for floral work and decorations.

Tree Pæonias, single and double; **New Herbaceous Pæonias; Iris Kæmpferi; Hardy Magnolias; Fresh Palm Seeds.** Time to make up orders for **Calochortus, Brodiæas, Fritillarias, etc.**

SEND FOR CATALOGUE.

ESTABLISHED 1878.

H. H. BERGER & CO.,
SAN FRANCISCO, CAL.

CHAS. D. BALL,

Holmesburg, Philadelphia, Penna.

PALMS

FERNS AND DECORATIVE PLANTS.

CHOICE STOCK AT MODERATE PRICES.

CANNAS, CROZY'S NEWEST.

See Our "BOOK FOR FLORISTS."

J. C. VAUGHAN, P. O. BOX 688, CHICAGO.

GREENHOUSES: WESTERN SPRINGS, ILL.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

VERBENAS.

POTTED PLANTS $2.50 per 100. $20.00 per 1000.

ROOTED CUTTINGS $1.00 per 100. $8.00 per 1,000.

FINE STOCK.

ROSES, CARNATIONS

AND A FULL LIST OF PLANTS OF ALL KINDS VERY LOW.

Send for List.

H. W. Williams & Sons,
BATAVIA, - - - ILLINOIS.

Mention American Florist.

Verbenas

FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30.00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	3.00	25.00
" " Rooted Cuttings	1.00	8.00
Lemon Verbenas, 1 year old, strong	6.00	

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1.00	8 00
Feverfew (Little Gem), extra strong	2.00	15.00
Salvia splendens, extra strong	1.50	12.00
Moon Vine	2.00	
Ageratum, blue and white	1.25	10.00
Achyranthes Emersonii, etc	1 00	
Heliotrope, light and dark—no rust	1.50	12.00
Begonias, assorted, fine	2 00	
Gazenias, splendens and variegata	2.00	

WOOD BROTHERS,
FISHKILL, N. Y

Mention American Florist.

St. Louis.

The florists report a good trade for the past week. Lent is having its depressing influence, but in general there is no cause for complaint. Funeral and other set work is plenty and runs mostly in small pieces.

We have at last had a few days of sunshine, but to-day, Saturday, brings cloudy weather, and rain again. Roses are a little more plentiful than they have been recently, but still the wholesale men say they can't get half enough to fill their orders. It is said that the firm of W. A. Hanft & Co., has left the wholesale business to engage in retailing.

Mr. Waldbart is making arrangements to have his largest house lighted by electricity. Mr. Armstrong is sending in some fine lily of the valley.

The Ayers Floral Co., the newly established firm at 3026 Easton Avenue has a model store. A commodious, well lighted, neat and scrupulously clean room, with every modern convenience, and a good in show the window, do much to increase the business of this wide awake firm.

Mr. Armsby, head gardener to Mr. Kauffman, has a few nice orchids now in bloom, among them being fine specimens Cattleya Trianæ, Dendrobium Wardianum, Saccolabium giganteum (Synonym: Vanda densiflora,) and Oncidium Cavendishianum. A large plant of Cycas revoluta is fruiting thereby making itself very interesting. Here can also be found some fine specimen palms, among them being one of Caryota urens, also one of Hydriastele Wendlandiana (Kentia Wendlandiana). J. W. D.

Pittsburgh.

Business has been very good the last few weeks. The growers are sending in good stuff, but not near enough to supply the demand. Carnations and roses are coming in in fine shape. Ed. Thiel, formerly with W. C. Beckert, is making arrangements to open a new store shortly, for the sale of cut flowers, on Federal street, Allegheny. T. F. Beckert will remove after the spring sales to Neville Island and put up a new range of houses, about 15,000 feet of glass, devoted entirely to growing cut flowers. The Florists' and Gardeners' Club at its last meeting decided to engage the same building, the Auditorium, for the chrysanthemum show to be held the second week in November. The premium list will be increased and cash prizes to the amount of about $1,000 will be offered by the club, also special prizes later on. The premium list will be ready in a few weeks and mailed to parties desiring the same by addressing the secretary of the club, Mr. G. Oesterle. E. C. R.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

LILLIES FOR EASTER

HARRISII, LONGIFLORUM, CANDIDUM, HYDRANGEAS, LATANIA BORBONICA, DRACAENA INDIVISA, GERANIUMS, ETC.

Send for Prices.

WILLIAM A. BOCK,

NORTH CAMBRIDGE, MASS.

Mention American Florist.

CHRYSANTHEMUMS.

The Following Choice Varieties in

LARGE QUANTITIES.

FOR EXHIBITION.	FOR EXTRA EARLY.
E. G. HILL,	ESPERANZA,
V. H. HALLOCK,	HARVEST QUEEN,
MISS M. WANAMAKER,	OCTOBER BEAUTY,
MRS. T. J. EMLEN,	MRS. J. G. WHILLDIN,
YONITZA,	PRES. HYDE,
CHARLES CAMFIELD,	RUSSELL,
KIOTO,	FIRENZI,
EDA PRASS,	BOLERO,
J. C. VAUGHAN,	EURUS,
WABAN,	SALLIE McCLELLAND.

PRICES ON APPLICATION.

NATHAN SMITH & SON,

ADRIAN, MICH.

Mention American Florist.

CHRYSANTHEMUMS.

We are now delivering our

PRIZE CHRYSANTHEMUMS.

Refer to our Catalogue for the Florists' Prize Set, and send in your orders at once for Chrysanthemums, New Genistas, and anything in the florists' line.

PITCHER & MANDA,

UNITED STATES NURSERIES, SHORT HILLS, N. J.

CHRYSANTHEMUMS,

The 1892 Sets and all the older Kinds fully shown in our "BOOK FOR FLORISTS."

J. C. VAUGHAN, P. O. BOX 683, CHICAGO.

GREENHOUSES: WESTERN SPRINGS, ILL.

Send for descriptive list of

CALIFORNIA RAISED and SELECTED, CHOICE JAPANESE IMPORTED CHRYSANTHEMUMS for 1892

JOHN H. SIEVERS,

5 Post Street, SAN FRANCISCO, CAL.

"PRIVATE STOCK" Coleus Cuttings

We grow for the best retail trade and offer our surplus Cuttings in GOLDEN BEDDER, CRIMSON VERSCHAFFELTII, YEDDO, SUNNYSIDE, FIREBRAND, at $1.00 per 100 by mail. HELIOTROPE, 75 cts. per 100.

Mr. A. S. MacBean says they are "very healthy, make an even growth, packing much superior, arrive in better order than any others I buy."

JOHN CURWEN, Jr.,

Villa Nova P. O. Delaware County, Penna.

Mention American Florist.

BEGONIA

AND CHOICEST CHRYSANTHEMUM SEED - 25¢ PER PKT.

"LIST FREE" T. H. SPAULDING, ORANGE, N. J.

CHRYSANTHEMUMS.

Discard old and unsalable varieties which every one has and no one wants to buy. Freshen your stock with new and recent prize winners. Your selection. 100 plants, 20 kinds 5 of each, $3.00 expressed. Cash with order. Stock limited. Buy at once. E. M. Hollis, Esperanza, Eurus, Michigan, Mrs. J. Donn, Ontario, Sylvia, L. B. Bird, Salvator, Triomphe Tyro, Maudus, Harding, J. Brown, Marie Ward, Rawson, Hill, Geo. Daniels, F. McDonald, Brilliant, A. Martin, International, J. R. Pitcher, Leon Frache, Mrs. J. L. Childs, Mrs. Emlen, Alcazar, A. Anderson, E. D. Smith, Delaware, Dr. Brigham, E. Prass, E. Stein, E. Dorner, Innocence, Cartledge, L. Bates, Mrs. Ley, Mrs. Westcott, Mermaid, M. Stewart, R. Flowerday, Sugar Loaf, Vonlitz, Weybrecht, Canfield, Shasta, Advance, M. Neville, Baronald.

100 varieties, all different, pot grown, $2.50.

T. H. SPAULDING, Orange, N. J.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns

GEO. W. CHILDS,

THE JACQUEMINOT CRIMSON CHRYSANTHEMUM

We desire to impress upon lovers of chrysanthemums, that this variety is without question the most perfectly formed reflexed crimson variety ever offered; and, like the great and good man it is named after, it will be as much admired and talked about. The flowers are of the largest size. The habit and growth is perfect. It has been tested two seasons and is thoroughly established. It was awarded the Pitcher Gold Medal at Orange, 1890, and a Silver Medal at Philadelphia, 1890.

SINGLE PLANT, $1,00; 6 PLANTS, $5.00; 25 PLANTS, $20.00.

Stock limited. Orders filled strictly in rotation. Plants shipped after March 1st.

OUR SET OF 10 NEW VARIETIES—SEE RETAIL CATALOGUE FOR DESCRIPTIONS. PRICE, $7.50.
SET OF 9 PEDIGREE EARLY VARIETIES—SEE CATALOGUE FOR DESCRIPTIONS. PRICE, $3.00. Plants ready March 1st.

Varieties of 1891.

Anna J. Sprague, white mottled pink.
Alcazar, bronze tipped yellow.
Chas. Canfield, claret red.
Ernst Asmus, finest of bronzes, price 25 cts. each; per doz. $2.50.
Emily Dorner, orange yellow.
Elmer D. Smith, cardinal red.
Eda Prass, salmon pink.
Frank Thomson, white shaded pink.
J. C. Vaughan, very fine deep plum.
Mrs. O. Laughton, very large purple silvery shading.
Mrs. Lay, Chinese blush white.
Mrs. Kendall, crimson and bronze.
Matie Bruce, pink shaded mauve.
Sugar Loaf, varying from yellow to bronze.
Uji, novel color, drab brown.
Waban, large clear pink.
Yosemite, very fine deep rose.

PRICE:

Purchaser's Selection, per doz. $1.25; 100, $8.00
Our Selection, " " 100; 100, 7.00

PLANTS READY FEB. 15th.

LOUIS BOEHMER, pink Ostrich Plume, per doz. 60c.; per 100 $5.

EARLY FLOWERING VARIETIES.

Salvator, large, rich crimson.
Bolero, chrome yellow, fine.
Esperanza, good size, creamy white.
Firenzi, bright yellow, very fine.

Per doz. $1.00; 25 of each variety, $8.00.
PLANTS READY FEB. 15th.

Selection of Older Varieties for Florists' Use.

WHITES.	Doz	100
Jessica	$1.00	$7 00
Domination	.75	6 00
L. Canning	.60	5.00
Mrs A. Hardy	1.00	
Ivory	1.50	
Progression late	1.00	
YELLOWS.		
Rohallion, early	1.00	7 00
H. E. Widener	1.50	8 00
E. G. Hill	.75	6 00
Kioto	.75	5 00
Coronet	.75	6.00
Gloriosum	.60	4 00
Gold	.60	4 00

PINKS.	Doz	100
Ada Spaulding	$.75	$6 00
Excellent	.75	
Mrs. I. Clarke	.75	
Thos. C. Price	.75	
Puritan	.60	4.00
CRIMSON, &c		
G. F. Moseman	1.00	
Cullingforoil	.50	
John Thorpe	.75	
White Cap	.50	
Comte de Germiny	.75	

10 plants of 10 varieties, purchaser's selection, $6.00 per 100.
10 plants of 10 vars. our selection, $4 per 100.

50 vars. (our selection), 2 of each, 100 plants, $8.00
50 " " " 4 of each, 200 plants, 10.00
100 " " " 1 of each, 100 plants, 9 00
100 " " " 2 of each, 200 plants, 15.00
500 plants not less than 10 or more than 25 of each variety, $16 00.
1000 plants, our selection, $30 00.

The above will include many of last year's and the cream of the older varieties.

Chrysanthemum Seed.

Saved from the finest varieties specially for florists. Trade packet 50c.; 3 for $1.25.

Retail Catalogue with full descriptions of the above varieties; also containing over 300 varieties mailed on application.

TERMS CASH.

Money Order payable on New York City.
U. S. Express Money Order payable on Pearl River.

Address **JOHN THORPE & SONS,**
ROCKLAND CO. PEARL RIVER, N. Y.

VIOLETS

150,000 Well Rooted Cuttings of

MARIE LOUISE,

$1 00 per 100; $6.00 per 1000.

Special terms on orders of five thousand or over. Limited number of the

Fisher White Carnation, $10 per 1000.

GEO. F. STONE & SON,

P. O. Box 7. **Chestnut Hill, Mass.**

Mention American Florist.

THE NEW VIOLET

R. GARRETT,

Is a sport from Count Brazza, of a light blue color, very large and very double; a strong, healthy grower.

PLANTS READY APRIL 1st.

Parties in and west of Chicago will please leave their orders with **J. C. VAUGHAN**, box 668, **Chicago.**

Price, $12.00 per 100; $100 per 1000; $4.00 per dozen.

All orders must be accompanied by cash.

J. COOK,

318 N. Char'es Street, BALTIMORE. MD.

VIOLETS.

All healthy stock, well rooted soil cuttings.

MARIE LOUISE, $1.00 per 100,
$8.00 per 1,000.

FRANK B. SMITH,

P.O. Box 1081, **Danville, Ills.**

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

VIOLET CUTTINGS.

50,000 WELL ROOTED CUTTINGS.

Ready April 1st.

ALL HEALTHY.

Marie Louise only.



No Old Crowns.

All runners taken from the plants.

UNROOTED AND ROOTED In Solid Beds.

ORDER EARLY, IF YOU WANT THEM IN APRIL OR MAY.

NO SAMPLES. NO CUTTINGS BY MAIL.

Write for Prices. **W. R. DAVISON, Nyack, N. Y.**

Mention American Florist.

Magnolia Grandiflora.

I am the largest grower of Magnolia Grandiflora in the world, and have them from five inches to five feet high, including all the intermediate sizes. Write for prices.

L. C. LISCHY,

L. B. 145. NASHVILLE, TENN.

VIOLETS—MARIE LOUISE 100,000.

VIOLET LOIE—Rooted Cuttings free from all disease, ready May 1st. Order early. $8 00 per 1,000.

It is useless to attempt to grow diseased plants. Try a change of stock.

GEORGE SALTFORD,

Violet Specialist, RHINEBECK, N. Y.

Double White Primulas,

Fine plants from 3-inch pots, in bud and bloom, at $8.00 per hundred.

BOUVARDIA. strong roots for propagating, single and double white, pink and scarlet at $4.00 per hundred.

Address **A. R. REINEMAN & BRO.,**

39 Fifth Avenue, Pittsburgh, Pa.

Mention American Florist.

PRIMROSE SEED.

From the finest **CHINESE PRIMROSES** in cultivation. All fringed; large flowers.

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More Good News Wanted.

So many of our craft are contributing suggestions for others to reflect upon, that I thought I might too, say a little, that would perhaps benefit some one. On page 480 of January 14th. issue in Mr. Wm. Falconer's article, "Good News," I find this phrase: "It is generally expected that a florist from the very nature of his calling, is a person of refined taste and neatness; do dirty pots substantiate this opinion." I say no, and so does everybody. But there is one other bugbear in the florist business, that appeals more to the sensitive feelings of every refined and just person than a few dirty pots, and that is an individual, an ignorant, brutal and profane foreman. He is a living evidence to the contrary that association with plants and flowers refines anybody. This brute in his ignorant conceit, abuses what little authority is vested in him and soon begins to make life miserable for those who are so unfortunate as to be compelled to work under him. Here is where the employer should interpose, and prove at least to the boys, that he has been touched with the refining influences of floriculture and give this brute a set-back, and demand of him courteous treatment of all hands. I can't understand how any employer can tolerate such injustice and cruelty. In all greenhouses we find boys of good families who are well bred and sensitive and it is not only painful, but galling to see such in charge of a raw, ignorant, howling brute. Every employer should deem it his duty to see that his employes are treated humanely. There are plenty of foremen to be had, who know how to treat the boys under their charge, so there is no excuse for not classing the brute with the dirty pots and fire them both.

I might make another little suggestion. We have florists' clubs; a chrysanthemum club; carnation club; a bowling club; now let us have a florists' humane club, and get these brutes out of the profession.

A FOREMAN.

MARCH OFFERS.

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Carnation, Daybreak	10	$1 co
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Triumph, new, yellow, extra	5	1 00
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Feverfew new dwarf by Exp. $1.00 per 100.

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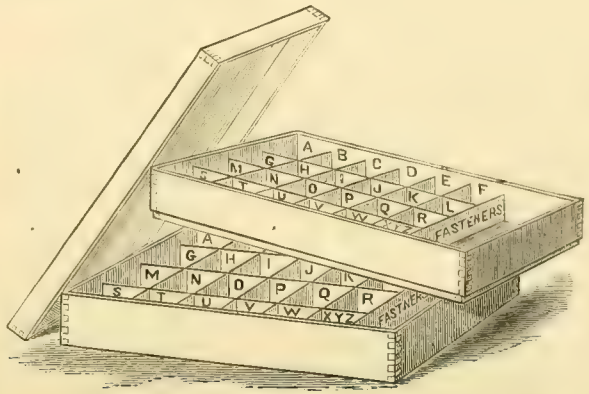
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Floral Decoration.

Florist Grove P. Rawson of Elmira, N. Y., recently gave a reception at his residence at which the floral decorations were unusually elaborate. A local paper says:

"The floral decorations were the finest ever seen in Elmira. On entering the spacious hall the floral and plant decorations at once arrested attention and commanded admiration. One entire side was a huge bank of palms extending from the floor to the ceiling, also a mirror flanked with pink and white primroses. The newel post was surmounted by a perfect specimen of Areca lutescens in a tall Japanese vase, and garlanded with smilax and Papa Gontier roses. The decorations of the front parlors and library were specimen palms placed in vases, antique jars and majolica ware, giving just enough "tone" to the blue and terra cotta draperies, carpets and furnishings. The back parlor, a room of unusual size, afforded ample scope for elaborate decoration. A large mantel arranged with golden flowers and foliage was a glorious mass of genista, daffodils and tulips graded from floor to ceiling. Another side of the room, in connection with a mirror and a background of palms, was massed with LaFrance roses, and wonderfully fine roses they were, eliciting enthusiastic admiration from all beholders. The octogon-shaped dining room, with its dainty luncheon tables graced with bowls of sweet English violets, to the side-board filled in with maiden-hair fern, bright foliage plants and scarlet tulips, was all that could be desired in the way of artistic effect. The lounging room, contiguous to the dancing pavilion, was prettily decorated in Florida palm leaves secured for the occasion, and garlands of manettia vine, with its scarlet and yellow bloom. The center of attraction, however, was the improvised room for dancing, nearly sixty by twenty, crashed and elegantly adapted for the occasion. The high ceiling beginning from the center, from which was suspended a huge bell of crimson immortelles and carnations, was decorated with wreaths and festoons of laurel. The side walls were covered with blue and yellow drapery arranged with natural and bronzed palm leaves and plumes. The largest wall space was filled in with a handsome placque of crimson immortelles, carnations and smilax. In an alcove tall palms and other greens screened the orchestra, and at the same time added materially to the other decorations, superb in quality and graceful in general effect."

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"Decidedly the best Aster we have seen." AM. FLORIST, Sept. 24, '91, page 141.

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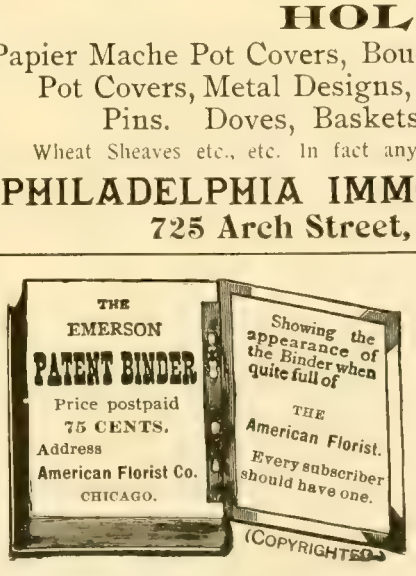
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"Chrysms."

"Mums", "Chrysms", "Chrysanths", "Chrysantums." Why not fall back upon the abbreviation our grandmothers adopted—the last in the above list? The first is vulgar and slangy, the second requires two long drawn out syllables to pronounce and is not over euphonious; the third is subject to the same objections with some others added. While the fourth may be said to have slightly the features of the first, i. e., slangy, still it is a decided abbreviation, it is plain, simple and euphonious, when pronounced as the old folks did—Cre-zan-thums, or Cre-zan-tums. S. CAREW.

St. Louis.

My grandfather's abbreviation of chrysanthemum was cr-an-tum.

Trenton, N. J. JAMES MACPHERSON.

Decorative Plants.

At our last exhibition there was a difference of opinion as to the exact meaning of the term "decorative plants." One exhibitor had in his collection a number of begonias. He held that they were "Decorative plants," while a competitor claimed they were not. Which was correct? H. G. G.

[The term is a rather indefinite one. All florists' plants are decorative—or should be. The phrase as generally used refers to such plants as palms, ferns, crotons, draccenas, etc. But a more definite term, and one frequently used of late, is "Palms, ferns and like decorative plants." —ED.]



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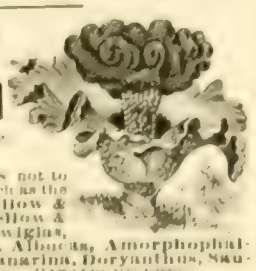
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" " 3 to 4 ft.	8	
California Privet, 2 to 2½ ft.	4	35
" " 2½ to 3 ft.	5	40
" " 3 to 4 ft.	6	50
" " 4 to 5 ft.	8	70
Common Privet, 2½ to 3 ft	6	50
Calycanthus floridus, 12 to 18 in. trans	3 50	25
" 2 to 3 ft. bushy	5	45
Clethra alnifolia, 2 to 3 ft.	6	
" 3 to 4 ft.	8	
Deutzia crenata fl. pl.,	2 to 3 ft 5	
fl. alba pl	3 to 4 ft 7	
" P. of Rochester, Scabra	4 to 6 ft 10	
Exochorda grandiflora, 2 to 3 ft.	8	
" 3 to 4 ft.	12	
Forsythia viridissima 3 to 4 ft.	7	
Golden-leaved Elder, 1 yr., 9 to 12 in	5	45
" " 12 to 18 in.	7	60
" " 2 to 3 ft.	12	
Hardy Orange, 1 yr.	3	25
" 2 yrs.	6	
Hydrangea paniculata grand. 1 to 1½ ft.	4	35
" " 1½ to 2 ft.	5	45
" " 2½ to 3 ft.	6	50
Japan Judas, 1½ to 2 ft.	12	
" " 2 to 2½ ft., bushy	15	
Japan Quince, 2 to 3 ft.	8	70
" " 3 to 4 ft.	10	85
Kerria Japonica variegata, 2 ft., fine	8	
Lilac, Common Purple, 2 to 3 ft.	5	40
" " 3 to 4 ft	7	50
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Prunus Pissardi, 3 to 4 ft.	$15	
Red-twigged Dogwood, 3 to 4 ft.	6	
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" Bumalda, 12 to 18 in.	7	
" " 2 ft.	10	
" callosa, 2 to 3 ft	6	
" " 3 to 4 ft.	8	
" " alba, 12 to 18 in.	7	
" " 2 to 2½ ft.	9	
" prunifolia fl. pl. 2 to 3 ft.	6	
" " 3 to 4 ft.	8	
" Reevesii fl. pl., 3 to 4 ft.	9	
" Thunbergii 2 to 3 ft.	7	
" " 3 to 4 ft.	10	
" Van Houttei 2 to 2½ ft	6	
" " " 2½ to 3 ft.	10	
" " " 3 to 4 ft.	10	
Syringa, Golden leaved, 9 to 12 in.	7	
" " 12 to 18 in.	10	
" Sweet Scented, 2 to 3 ft.	6	
" Large flowered, 3 to 4 ft.	8	
" " 4 to 6 ft.	10	
Tamarix, Indica, 3 to 4 ft.	6	
" 4 to 5 ft.	8	
Wegelia amabilis 2 to 3 ft.	8	
" candida 3 to 4 ft.	7	
" rosea 4 to 5 ft.	10	
" Desboisi, 3 to 4 ft	7	
" " 4 to 5 ft.	10	
" LaVallee 2 to 3 ft	6	
" multiflora, 2 to 3 ft	7	
" " 3 to 4 ft.	10	
" variegated-leaved, 2 to 3 ft.	6	
" " " 3 to 4 ft.	8	
Upright Honeysuckle, Fragrantissima, 2 to 3 ft	8	
" " " 3 to 4 ft.	12	
" " Tartarian, 3 to 4 ft.	9	

For other varieties, Vines, Herbaceous Plants, Shade and Fruit Trees, etc., see our Semi-annual Trade List for Spring 1892 mailed free to all Florists and Nurserymen who ask for it.

25 at 100 and 250 at 1000 rates.

All the stock offered is A No. 1 and in prime condition. Packed free of charge when cash for full amount ordered accompanies the order.

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is used and endorsed by well known florists from Maine to Mexico.

(It sells with the Bouquet)

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Approved by the Society of American Florists.

A PRACTICAL Bouquet Pin which SAVES TIME both to the florist and his patrons.

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Large culture of Araucaria excelsa, Aspidistra with green and variegated leaves; Azalea Indica, Mollis and Pontica; Laurus nobilis with heads and in pyramids; Palms in all sizes, etc., etc.

EASTER PLANTS WANTED.

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Standard and Dwarf

Pears, Cherries, Apples, Peaches, Plums, Quinces, Apricots, &c.,

many in bearing sizes.

Currants, 30 Kinds of Grapes, Raspberries, Blackberries, Strawberry Plants, etc.

2000 Norway Maples	12 to 18 ft
2000 " "	9 to 12 ft
1000 Sugar Maples	10 to 12 ft
1000 " "	8 to 11 ft
1000 Silver Maples	12 to 14 ft
1000 " "	9 to 10 ft
1000 Elms	12 to 16 ft
1000 "	9 to 12 ft
1000 Horse Chestnuts	7 to 9 ft
1000 American and Spanish Chestnuts	3 to 8 ft
1000 English Birch	12 to 18 ft
500 Horn Beam	9 to 12 ft
1000 Poplars	9 to 12 ft
1000 Lindens	8 to 12 ft
1500 Purple Leaved Beech	3 to 6 ft
1 000 Shwerdlerii and Reitenbachi maples	3 to 8 ft
2000 White Fringe	3 to 6 ft
1000 Purple "	3 to 6 ft
500 Kil. Willows, ex. heads	
3000 Hydrangeas, P. G	2 to 4 ft
4000 Norway spruce	3 to 8 ft
2000 Balsam Fir	2 to 6 ft
2000 White Spruce	3 to 6 ft
4000 Arbor Vitae, trees and hedges	3 to 9 ft
2000 Retinospora, 3 kinds	
500 Irish Junipers, ex. strong	
1000 Blue Spruce	2 to 3 ft
2000 Tree Paeonias, ex strong	
2000 Altheas, 4 colors	
7000 Hardy Roses	2 to 4 ft
10,000 California Privet	1½ to 3 ft
10 000 Sugar Maples seedlings	1 to 4 ft
20,000 Asparagus Plants, 1 and 2 years	
2000 Ampelopsis Veitchii	Strong
2000 Ampelopsis quinquefolia	Strong
2000 Clematis	Choice kinds
2000 Chestnuts	American and Spanish
2000 Wistarias	Ex. Strong.

I have the best of facilities for shipping, as we have two railroads and the Sound steamers leave our dock every evening; arrive in New York City, Pier 40, N. R., next morning. Landscape Gardeners, Superintendents of Cemeteries and Florists wanting stock for their customers, should visit me or write. West side street cars run direct to Nurseries. Address

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Japanese Maples

And other Rare Plants.

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THE LARGEST PLANT FOR THE MANUFACTURE OF FLOWER POTS IN THE WORLD,

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And with our enlarged facilities we shall be enabled to supply goods in unlimited quantities, and thus very soon fill all orders promptly with a **Pot far Superior** to any yet offered to the public.

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Five barrel bales, Peat or leaf mould, Lycopodium, etc. Transplanted Evergreens seven varieties two to five feet. Dwarf Juneberry, Huckelberry. High Bush Cranberry, Small fruit plants of any variety with a general assortment in nursery line, write for special prices.

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POINT 1.—The new book will contain an accurate list of those in the trade on the Continent of North America, January 1, 1892.

POINT 2.—In addition to the above it will contain the statistics of the Florist, Nursery and Seed Trades from the last census.

POINT 3.—It will also contain a complete list of all National and Local Trade Organizations, with just the information about each that you want to have convenient for reference.

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List free on application.
FRED. ROEMER, SEED GROWER.
QUEDLINBURG, GERMANY.

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"Frozen Callas."

I have seen callas, growing both in pots and in solid beds, in greenhouses, frozen until the leaves dropped down, and when thoroughly sprayed, after the air began to warm up, till the frost left the leaves, all straightened up and not one leaf or flower suffered. This experience was repeated several times as the house was heated only in the coldest weather. HARRY.

When through any accident callas or any other plants are frosted, shade at once from the sun and syringe freely. But be careful to keep shaded from the sun for at least a day. THOS. MCCARTHY.

Danville, Pa.

Snails.

We were troubled by snails; we had some 6½ inches long when moving or crawling. Now, every fall we clean thoroughly under the benches, the walks, etc., so the snails have no hiding places, and we have not seen a snail this season. Years previous we used to have our seedlings eaten off and carnation flowers injured by the snails. It pays to keep clean and tidy. W. B. WOODRUFF.

Westfield, N. J.

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Challenge Ventilating Apparatus
— IS THE BEST FOR —
VENTILATING GREENHOUSES & CONSERVATORIES.

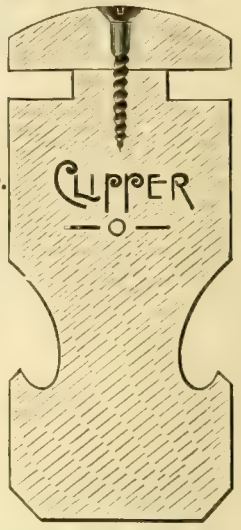


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Prices and references sent on application.
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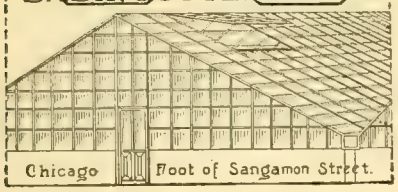
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Price list for any number.

2 -inch.	per 1000,	$3.25	5-inch,	per 100,	$ 1.88
2½ "	"	3.50	6 "	"	2.20
2⅝ "	"	4.00	7 "	"	3.50
3 "	"	5.00	8 "	"	5.00
3½ "	"	7.25	9 "	"	8.00
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Low freight rates to all points. Terms cash. f. o. b

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DETROIT FLOWER POT MANUFACTORY.



A full line of

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STRONG,
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Not only are our pots lighter in weight and yet as strong as any other pot on the market, but our way of packing for shipping will cause you to pay for the smallest dead weight possible. These two items we claim will save you one third in freight charges. To prove this will send circulars showing number of pots in crate and weight of same, with freight rate per 100 pounds to any point.

SIPPLE, DOPFFEL & CO., Syracuse, N. Y.

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Mention the American Florist when writing to advertisers on this page.

The World's Fair.

Applications for about 180,000 square feet in the horticultural building have been received. With the space assigned to foreign governments this about takes up the whole space and as applications are still coming in fast the exhibits will have to be cut down to the best.

Mr. Vermuth has sent word that all the leading grape growers and wine makers of Germany have made application to him for space and intend to make a splendid exhibit of viticulture.

Work on the horticultural building is going on so rapidly that it will soon be completed.

In response to the various circulars sent out by the department many donations of plants have been made and seeds of winter and early spring flowering plants sent in from many European houses as well as from American seedsmen. The Japanese commissioner, M. Tegima, and his secretary, Y. Yambe, were in to see Chief Thorpe about their floral decorations at the Fair. Mr. T. advises them to obtain most of their material in this country as there is not time to get much of it imported and established in time. He supplied them with a list of about 400 species of Japanese plants which are now cultivated in this country and Europe. Of course much of the distinctively Japanese material, the dwarf trees and other examples of Japanese horticultural art, will have to be brought from Japan as well as most of their rarer bulbs and herbaceous plants. M. Tegima returns to Japan about the 15th of March to report to the Imperial Commission; he then expects to come back here prepared to make the north end of the island in Jackson Park an exact representation of the highest Japanese floriculture and ornamental architecture. Both M. Tegima and M. Yambe show an acquaintance with our system of botany much superior to that of the average well educated American. One of their school text books is Gray's botany and a German flora.

Mr. Wittbold called at headquarters in the interest of his friend A. Lietze of Rio Janeiro, who intends exhibiting a collection of caladiums and other tropical plants.



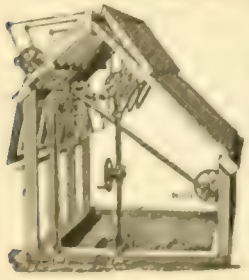
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Insecticides & Fungicides

of Established Reliability

FOR ALL USES



SOLD IN ANY QUANTITY BY THE SEEDSMEN.

Slug Shot Kills Bugs.

A cheap powder destructive to Insects which are injurious and destructive to Plants, Shrubs, Trees, Vines, Potatoes, Melons, Cabbage, Currants, Etc. Used in all latitudes since 1880, with SAFETY to man, beast and fowl. Put up in perforated screw top canisters, five and ten pound packages, and barrels and half barrels.

Thrip Juice Kills Lice, Scale and Caterpillars.

A concentrated liquid insecticide for destroying the Lice, Scale, Caterpillars, Mealy Bugs, Etc. NON-POISONOUS diluted with 20 to 40 quarts of water. ARSENIATED for orchard use. It is the cheapest insecticide in the world. Diluted 800 to 1000 parts of water. Put up in packages of from one-half pint to barrel.

Scrofularia for Carpet Beetles, &c.

A compound powder of the most effective character as a preventive of Carpet Beetle ravages, and the destruction of Bed Bugs, Cockroaches, Ants, etc.

Grape Dust for Mildew.

A thoroughly reliable powder for preventing Mildew on Roses, Lettuce, Grapes Gooseberries, e'c., whether in greenhouses or not.

Solution of copper.

A concentrated liquid fungicide prepared ready for immediate use on trees, vines or vegetables affected with rot, blight or scab with safety to the foliage, (the use of the off-hand prepared mixtures of copper are frequently at ended with destruction of the foliage); this solution can be handl d safely by any ordinary careful person without danger of harm, and will positively do good.

The various Plant Diseases to which it is applicable, are

Black Rot of the Grape, Brown Rot of the Grape, Downy Mildew of the Grape, Powdery Mildew of the Grape, Anthracnose of the Grape, Pear Scab and Leaf Blight, Apple Scab, Gooseberry Mildew, Cranberry Scald, Potato Blight, Tomato Blight, Tomato Rot, Melon Blight, Quince Blight, Black Spot on the Rose, Carmation and Mignonette Disease.

DIRECTIONS—1 Quart of Solution to 25 Gallons of water.

PUT UP IN QUARTS AND LARGER PACKAGES.

Tobacco and Sulphur. In kegs or barrels.

Powdered Tobacco.—No dirt. In kegs or barrels.

These goods cover the requirements for destroying insects or fungus in a form that is immediatedly available. Our object is to combine efficiency, safety and economy and **we do it.** Correspondence solicited.

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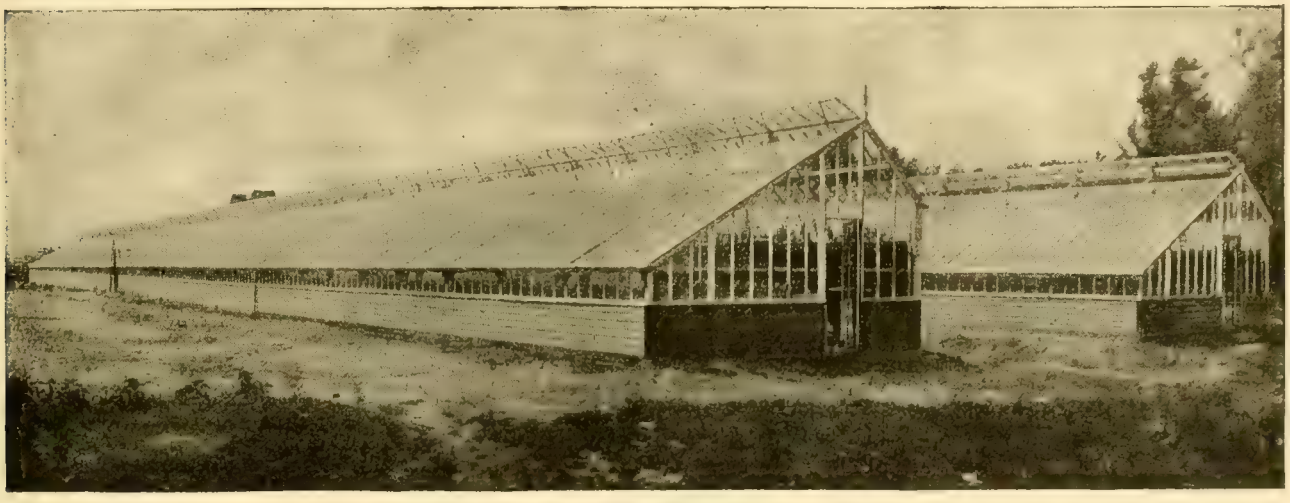
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HOT-WATER ENGINEERS.

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Commercial Houses of every description, **Conservatories, Palm Houses, etc.,** with all the latest improvements, shipped to any part of the United States or Canada and erected complete ready for use; or the materials shipped ready for erection, with plan and full instructions so that the work can be completed by local mechanics.

ALL METAL CONSTRUCTION,
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OR OF WOOD ALONE.

Iron Benches for Slate or Wood tops a specialty.

Estimates cheerfully given for the work complete, or for Heating Greenhouses and Dwellings by Hot-Water Circulation.

OFFICE AND SHOW ROOM:
244 CANAL STREET,
NEW YORK.

FACTORY:
196 to 240 Orient Ave., west side Ave. Station, Central R. R. of N. J.,
JERSEY CITY, N. J.

Sow Bugs.

Judging by my experience there is no remedy that will *entirely rid* the greenhouse of the sow bugs, as they are so numerous outside that they are constantly crawling in or being brought in by the soil used for potting.

Where wooden benches are used, as I do for carnations, I find the use of heavy crude pretroleum oil an efficient preventive and for the slug also. I have used the oil as a preservative of the woodwork and notice that the sow bug is absent, where it used to be so plenty as to be a nuisance. Thus incidentally I stumbled upon a way to keep them off the plants which I had long looked for in vain. Perhaps it would be sufficient to oil the supports of the benches to prevent the bugs from creeping up. Certainly the oil is distasteful to them and keeps them down on the ground where they naturally belong. If the ground under the benches was sprinkled with the crude oil, I should think it would kill or drive away all insects that infest the greenhouse. I mean to try it. S. F.

To get rid of sow bugs place slices of Irish potatoes, or better still, of pumpkin, about three feet apart on beds or benches. Visit them about every two hours during the night, knock off the bugs that will have gathered on them into a bucket or other vessel, and replace the slices. About five crops can be caught with the same stock. Destroy the captured bugs of course. ECKHARDT & CO.

Nashville, Tenn.

If S. will put a few hens in his greenhouses he will soon get rid of sow bugs. We were troubled with these bugs some years ago and after trying several plans with only partial success we let some hens range through the greenhouses in summer and they soon cleaned out the bugs and gave us eggs in return. We have had no further trouble from the bugs, but we keep a few bantams about the place and we find them very useful.

Westfield, N. J. W. B. WOODRUFF.

I found a sure remedy for sow bugs in air-slaked lime scattered under the benches and other places that they frequent. Have had no bugs since applying above. E. H. DALY.

Rahway, N. J.

THE NEW STYLE GARDEN TROWEL.



IT WON'T BREAK A TROWEL AND DIBBLE IN ONE.

P. J. Berckmans, Pres. Am. Pomological Society, writes "It is just the trowel we need."

J. HARRIS, Moreton Farm, N. Y. "For many purposes your trowel is the best I ever saw—a grand tool for setting out cabbage, strawberry and tobacco plants."

Practical gardeners all indorse it, saying it will save its cost daily in the market garden. 3 SIZES, No. 1, 8-inch tool steel, tempered and polished, 40 cts. No. 2, 7-inch bright steel, 30 cts. No. 3, 5 inch, 20 cts.

Mailed on receipt of price.

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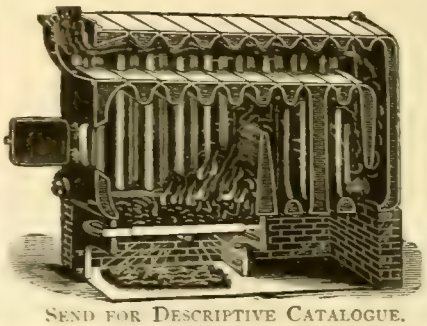
Three-Piece Wood Mailing Box.

The neatest and strongest box on the market. Send 15 cts. in stamps for sample nest and price list. I also make Cut Flower and Express Boxes.

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Successor to SMITH & SMITH.

Hardin County. KENTON, OHIO.



The CARMODY Sectional Boiler

Is made by a Florist,

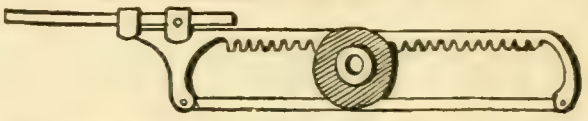
And is especially adapted for Greenhouse purposes, as it can be enlarged at any time to accommodate additional space. It will cost less, and has more advantages than any other Boiler.

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"New Departure" Ventilating Apparatus,

That will lift more sash, do it quicker, easier, and costs only about half as much as any other ventilating appliance in the market.

Send for Catalogue and Instructions.

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GRASS SEEDS AND ONION SETS SPECIALTIES.



I can furnish "High Grade" Vehicles and can save you 25 to 50 Per Cent.

Four passenger 3 Spring Wagon, ... $50.00

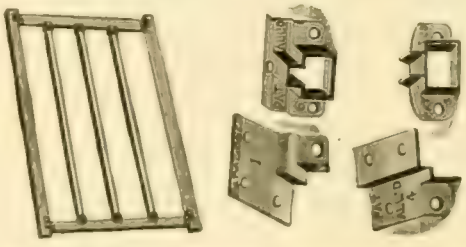
Brewster or Elliptic Spring Top Buggy, . . . $60.00

Single Track or Buggy Harness, ... $15.00

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This handsome, well made, and substantially ironed Wagon, very desirable for Florists, only $130.00

J. Chas. McCullough, N. E. Cor. 2nd & Walnut Sts., Cincinnati, O.



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INDESTRUCTIBLE.

CYPRESS GREENHOUSE WOOD WORK OF ALL KINDS.

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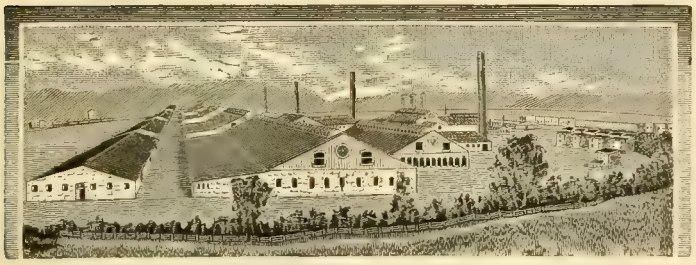
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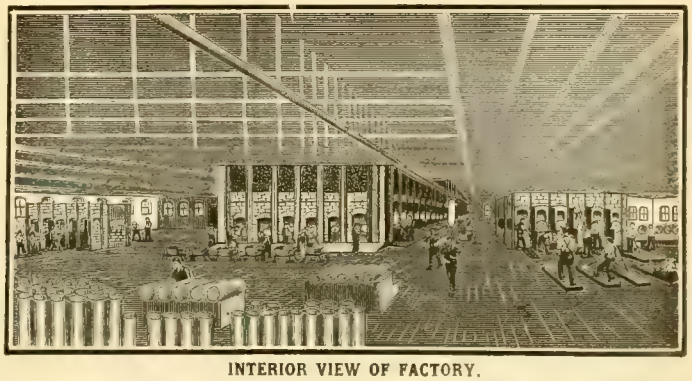
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Harrisburg, Pa. JOHN FRASER.

"And ——."

A reader sends us the following acknowledgement of goods received and remarks "The curiosities of literature are not exhausted yet by a long shot." His position seems to be well taken. Here is what he bases his opinion upon:

"Dear sir—A few lines to you and will say that them seed came all right & i am ever so mutch a Blige to you for them extre packs you sent me & i have Bin getten my seed from a nother man But he has Bin acken a posum with me & it is time to stop & my order next year will Bee som what Biger & i Remain yours truly."

A Big Job Before Him.

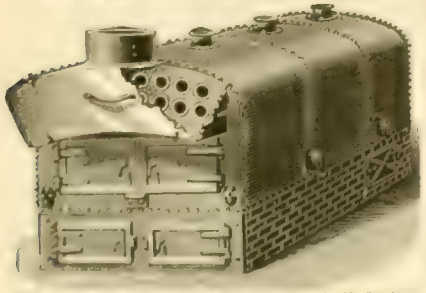
Cholly—Me boy, are you weally in twaining?

Chappie (firmly)—I am.

Cholly (aghast)—Pwize fight?

Chappie (severely)—Do you take me for a bwute? No; I'm twaining wigidly, to be able to carry a prize chrysanthemum in my buttonwhole.—*Dansville Breeze.*

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" "	4	18	6	2½	1/8	5-16	8	1	2	440	120.00
JASMINE	4	23	7	3	1/8	5-16	10	1	2	600	135.00
"	5	23	7	3	1/8	5-16	10	1	2	800	150.00
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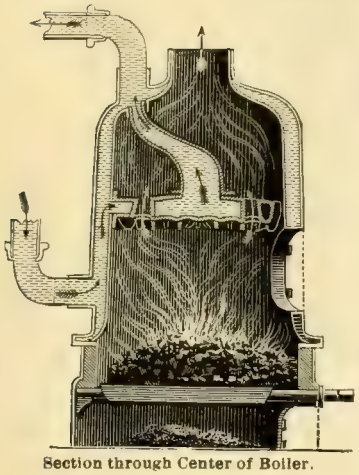
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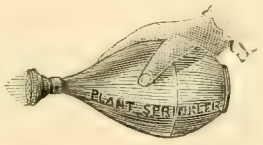
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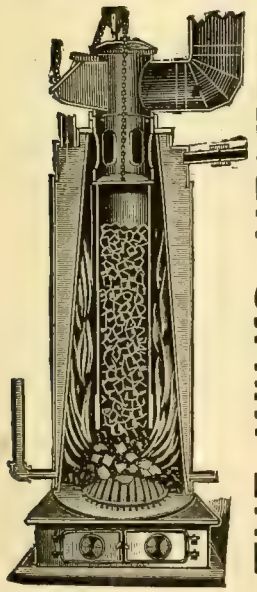


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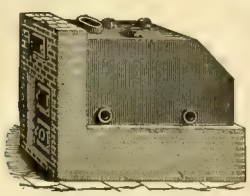
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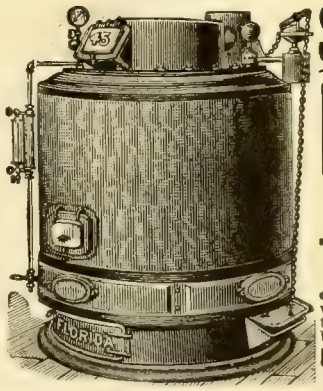


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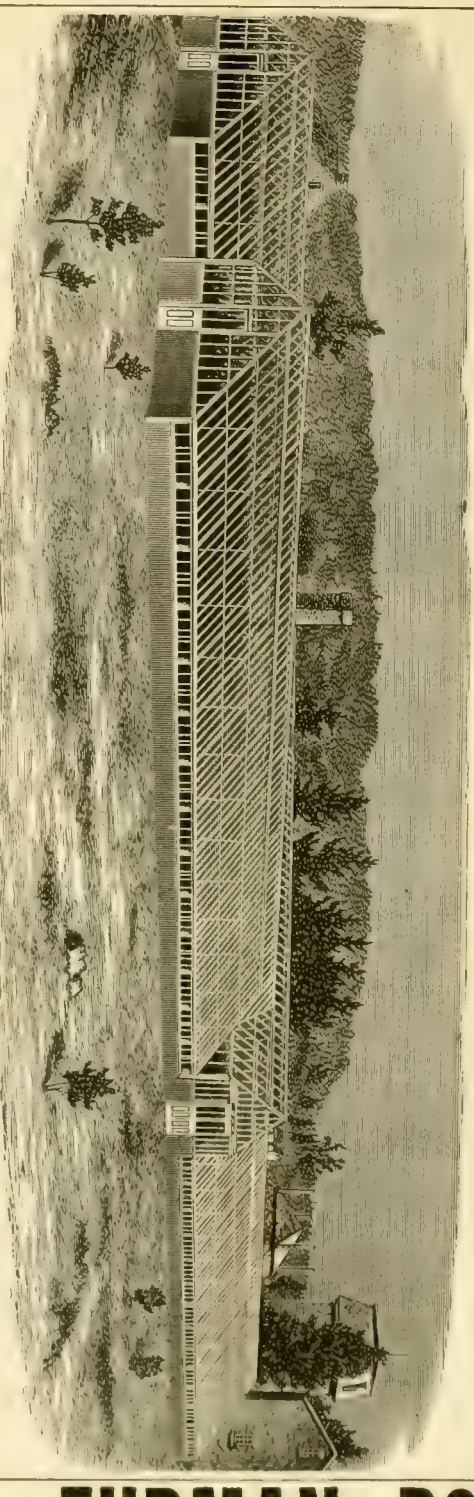
WE HAVE received from Mr. Henry Diers, Sibley, Ill., a very handsome bloom of the M. Niel rose which he writes was cut from a plant only seven months old and about three feet high. It was certainly an excellent bloom to be cut from so young a plant.

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Vol. VII. **CHICAGO AND NEW YORK, MARCH 17, 1892.** **No. 198**

THE AMERICAN FLORIST

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THE AMERICAN FLORIST COMPANY.

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THANKS for compliments regarding our special spring number.

SEVERAL communications have been unavoidably laid over until next week owing to lack of space.

ARE YOU laying your plans so as to be able to attend the Washington Convention of the S. A. F.? It is not too early to lay out your plans for the summer and Washington should be on your program for August.

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Clubs Again.

Under this heading Mr. A. H. Ewing (page 613) takes some pains to criticise the list of subjects chosen by the S. A. F. for its essays at the convention to be held in Washington.

Now, while I am quite willing to admit that some of the subjects chosen may not be particularly scientific or on a plane to meet the requirements of one as well posted as Mr. Ewing, still there are some which I think will well repay even such as Mr. E. to travel to Washington to hear. It must be remembered that a great many members of the S. A. F. are not men who have the advantage of being thoroughly well posted in matters appertaining to their business and they want the most important features of their every day requirements thoroughly discussed. If Mr. E. could be in my office but two or three weeks he would soon be convinced of that fact by reading some of my correspondence and the executive committee are well aware of that fact also.

Each member of the executive committee is required to hand in several subjects for essays and then, after carefully going through the whole list, thoroughly discussing every one, they are finally voted upon and the subjects receiving the highest number of votes are the ones selected; and this is as it should be. Many of the members for whom those subjects are particularly chosen do not have the advantage of ever being able to attend a Florist Club meeting, where, of course, such subjects, or something akin to them, are often up for discussion. I think that if "his satanic majesty" can not get much "wool" from "shearing the pig" some of his imps must have gathered considerable in his absence, as any one can see who visited many of the florist places previous to the year 1885 and has visited the same places since. In fact we need not go so far as that, for a great many men will frankly tell us that the S. A. F. has been a very great benefit to them in their business, and I think, for one, that there are very many hundreds who will be benefited by it still.

The Society was originally started with a view of benefiting every florist on this continent; and its main object in the future, as in the past, should be "the greatest good for the largest number." Now, if Mr. Ewing will come to Washington next August I think he will find many things in the essays to interest even him, for, although the subjects chosen are somewhat similar to some of previous years, yet the men chosen to write the same will no doubt treat such subjects in somewhat different form, and in such a way that they will be attractive to all.

The S. A. F. has been called upon to father a good many things; now, Mr. E. wants it to become the mother of all the Horticultural Clubs. What a nice time the lady would have nursing up the refractory children! In trying to give soothing syrup to stop the yelling of one she would invariably incite the jealousy of the next squalling youngster; but, I have no doubt, in time the babies could be quieted down for an hour or two's sleep if only to waken up to renew the fight. But on this subject let me suggest to Mr. E. that he prepare questions embracing all the subjects hammered at and present to the secretary in ample time to give that worthy officer the opportunity to place them in the hands of efficient men for answers.

I may be premature in venturing to remark that I think the members of the executive committee are amply able to take care of the best interests of every member of the S. A. F., because they are selected every year from widely different localities. I know they spend considerable time and pains to get all the information they can appertaining to the requirements of all classes of its members, and, while giving every subject presented the most careful consideration, it would not be just to the large body of its members to give any one particular person or section more consideration than others.

In conclusion, let me suggest to Mr. Ewing that before the next executive committee meeting in January, 1893, he prepare a list of essays on a plane that will lead the S. A. F. to *somewhere* and hand the same to his neighbor, Mr. Dunlop, and he can rest assured the committee will be only too pleased to give them every consideration.

JOHN N. MAY,
An ex-member of the Executive Committee of the S. A. F.

I have just read Mr. Ewing's article entitled "Clubs Again." It is an interesting article. What he says about the essays of the S. A. F. as compared with the club essays is certainly sound, but that the S. A. F. is traveling a road to nowhere I do not agree. In my opinion the S. A. F. has used up its mileage and can not travel at all. The time has arrived when it must find another job. It's all talk now. The work that was originally laid out to do is now finished. True, it was so valuable that we found it beneficial to form local clubs all over the country in order that we need not wait a whole year for the benefit of a florists' meeting, and now that the clubs are established the S. A. F. is out of a job, or more properly speaking, its efforts in that line are not generally solicited by its members.

Now let us do something for the benefit of the trade that the local organizations cannot accomplish. Let us deal with national questions and leave small matters for the local clubs.

We want a standing committee to look after express companies, to gather all in-

formation during the year, make reports and see that different points are discussed. Let this committee take up one or two cases of frozen flowers and make the company pay up; give such a committee power to test cases of difference; there is plenty of work of this kind and highly interesting. This is work we can not do alone at home. There is the supervision of our postal interests, our importation laws—of vital importance; in fact all national laws affecting the trade in any way should be carefully scrutinized by the National Society in order to put just such work before the S. A. F. as is wanted.

I would advise the following changes: First, discharge all the state vice-presidents (the majority of them are no good) and in their place look to the president and secretary of all the local clubs. When any subject presents itself before a local club which it finds too important to handle alone its officers can lay it before the secretary of the S. A. F. who will collect all these to present to the executive committee. By this means this committee can see just what is especially desired by different parts of the country and make arrangements to have all such subjects explained and settled. It will also tend to create more enthusiasm in the attendance when each club knows that some of their business is to have a hearing before the S. A. F. If this plan were adopted it would make a number of other improvements possible, one of which is this: it would virtually make all our local clubs separate parts of a *whole*; as Mr. Ewing puts it, the S. A. F. would be a sort of grand lodge. Are not all the flower shows also separate parts of a whole? If we will look at things in that light why can't the S. A. F. issue an annual pass to each member in good standing which will admit him to all the shows?

There are a few more benefits which might be derived from this plan which I think of and doubtless many which have not occurred to me, but before advocating any more I should like to hear from others. C. B. WHITNALL.

Milwaukee, Wis.

Under the above caption, Mr. Ewing, of Toronto, in the AMERICAN FLORIST for February 25, overhauls the Society of American Florists and expresses disappointment regarding the work of the organization as at present conducted.

The subjects of the essays proposed for the next meeting appear to be the especial cause of Mr. E.'s sadness. And as he contemplates the insufficiency of the program for the Washington meeting he is moved to exclaim, "It does really seem to me as if the S. A. F. had got on to a track that led to nowhere," or as he afterwards expresses it, "to a hole in the ground." Well, "a hole in the ground" is better than "nowhere," for in it you can plant a tree or a bean, and truly without holes in the ground our business would be at an end.

But let us see what is the trouble with the list of subjects announced by the committee. Here they are: 1, Hybridization and the Improvement of Plants and Flowers; 2, The Propagation of Roses; 3, The Comparative Value of Commercial Fertilizers; 4, Insect Pests in the Greenhouse, their cause; 5, Club Root, Its Cause and Remedy; 6, Flowers for Holiday Demand; 7, Marketing Cut Flowers; 8, Floriculture for Children; 9, Commercial Integrity; 10, Decorative Art.

What is the matter with that list? True, it does not take in everything. That is impossible, and if it were possible it would be too bad, for that would leave us nothing to talk about next year, but it seems to cover broadly nearly all departments, and there is no subject in the list which is not of vital interest to some considerable number of our members.

Mr. Ewing, however, believes "a list might be got up which would be productive of more benefit and provoke more discussion among the members." In this connection if Mr. E. will take the trouble to look at the AMERICAN FLORIST for December 24, 1891, he will find this note:

"The Executive Committee of the S. A. F. will meet in annual session at the National Hotel, Washington on Tuesday, January 12, 1892. Many of the members of the Society no doubt have ideas as to subjects which could be with profit embodied in the programme for next summer's convention, or could suggest to the Executive Committee plans of improvement or advancement in the Society's work. *Now is the time* to bring such matters to the attention of the Executive Committee, that they may receive careful consideration, and all such assistance from the members at large is sure to be welcomed by the Executive Committee. Communications should be addressed to the secretary."

Here was the opportunity for any one who could suggest a list of essays that would so fire the great gathering of gardeners and florists with enthusiasm and would be such an improvement on the past, that the members would all forget their sight seeing, their bowling and other social dissipations and crowd the hall to overflowing with earnest seekers after knowledge, and every member of the Executive Committee would have been delighted to so easily get rid of this hardest of all the duties imposed upon him.

Mr. Ewing further enquires: "Do not the clubs want a sort of grand lodge over them to appeal to and to settle disputes as they come up?" All that can be said in reply to this is that no appeals of this nature from any of the clubs to the S. A. F. have yet materialized.

Outside of attendance upon annual banquets and other good times the experience of the undersigned is somewhat limited. In the one club with whose affairs he is well acquainted the only subject which they are "forever hammering away at and never settle" is the surplus in the treasury, and it would take considerable temerity for any member of that club to stand up and seriously propose asking the S. A. F. to settle it for them, even though it be true that had it not been for the S. A. F. there would have been but little surplus to hammer at.

It would be a great pity to have so good a boy as our genial friend Ewing join the ranks of the "pessimistic politicians," but those who know him personally will be slow to believe that he feels half so badly as his writing would indicate. It is a pleasure, however, to inform him, the clubs, and every one interested, that looking down through the slit in the top of the "Question Box" one sees that that useful piece of furniture is not yet half full, and that there is plenty of room there still for the reception of burning questions, all of which, if received in time, will be duly inserted in their proper place in the programme, so that they can compete on even terms with the Washington Monument, the Capitol, the White House and Mades' Hotel, for the undivided attention of the visitors. WM. J. STEWART.

Interstate Commerce in Plants.

The bill introduced into the house of representatives by a California congressman, and mentioned in your edition of February 25, is very evidently intended to prevent the spreading of some of the fruit diseases which are now prevalent in some localities. For certain hereditary injurious diseases of this class it may be well to prohibit interstate transportation, and thus perhaps succeed in overcoming them.

But that cannot refer to the florist's business, we will take for instances, the scale, the mealy bug, and the mildew, three of the most formidable examples of the diseased conditions of plants, which demand the florist's attention. What would be gained, or what may be the object of prohibiting by such stringent legislation, the interstate transportation of vines or plants of florist's stock which are diseased in either of the three ways mentioned? Truly, the purchasing florist does not wish to receive plants and vines in such conditions; yet, need the government interfere in the purchaser's behalf? Will not clean healthy plants always recommend themselves, and are they not the best advertisement for any house? What is more, are not these pests the result, rather then the cause of the diseased or unhealthy condition of plants? It is well known that by proper attention, these plants can easily be rid of the pests in question. They are already to be found in every state and territory, so why attempt to prohibit their spread by such an enactment? The healthiest man will become diseased by the influence of impure surroundings, and so it is with the plants. I consider the proposed law to be as improper as if the government desired to dictate to every one how he was to grow his plants, and yet the latter law might be more effective in the desired direction than the one now before congress. It is not in the plant but in the care it receives, that disease finds its origin. So the importation of diseased plants can be of but little detriment as compared to what our honorable lawmaker would have his colleagues believe.

Add to this the punishment which is to be inflicted upon the transportation companies, which shall be compelled either to refuse to carry plants and vines, or to exact sufficient bonds to indemnify them from the shippers, who will thus be doubly liable. Candidly, I do not believe that the measure was intended in the first place to apply to the florist's business, for flowers, being in a sense merely exterior luxuries, their being diseased will not be of any consequence as far as the welfare of the people or the country may be influenced. And their transportation should not constitute a misdemeanor.

But should there be local contagious diseases of fruit trees, plants or vines, that would be spread by shipment, the law is desirable, but should be differently worded, to prevent misconstruction. In it's present shape I do not think the law will pass, especially if the florists will inform their representatives of the possible harm such legislation would do the florist's profession. E. H. M.

A Glimpse of Gardening at Dosoris.

The accompanying illustration from a photograph taken here last September represents a style of ornamental shrubbery gardening to which I am very partial. And this group is not quite two years planted. As you will observe, a sweeping carriage driveway passes along on the right hand side and is edged on both sides by a stone curbing. Next to the stone curbing is a belt of the pure white moss pink (Phlox subulata alba) which 17 months before was planted there in a single row from 2½-inch pots. It is hardy as a rock, evergreen, always mossy and pretty, and in April and May when in bloom resembles a band of white ribbon.



A GLIMPSE OF GARDENING AT DOSORIS, MR C. A. DANA'S SUMMER RESIDENCE ON LONG ISLAND.

Up till two years ago this piece of ground was occupied as a French fruit tree garden and contained the most perfectly arranged style of this gardening in America. It was a perfect maze of stakes, trellises, etc., and the contortions and intergrafting the poor apple, pear, plum, cherry, peach and other trees had to submit to and retain so as to represent the perfect form, were so agonizing in their formality that even their faultless shape could not atone for their misery. But I hated them.

The winter, two years ago, was mild and our work got pretty well finished up and the ground was still open and we felt strong. So we held a parley, then there was a great tearing up and a big bonfire and my heart grew well again.

The ground was then levelled and I staked it off for specimen evergreens, one of a kind. And in order to give these specimens ample room for mature development they were planted a reasonable distance apart. But this gave us an empty looking bed. There was no need of this though, for we had many other choice shrubs in our nursery praying for a shift even of a year or two's tenantcy, so we lifted them according to their selectness and planted them into this clump to temporarily fill up the open spaces between the permanent plants. Now some sage will probably exclaim: "There it is again, too thick planting, then neglect, and all is spoiled! It's the same old story." Ah, Mr. Wiseacre, where will Mr. C. A. Dana and I be then? We don't work that way on this place. We every year chop out and burn up specimen trees which for beauty, symmetry and rarity would draw the very blood from your heart in pity for them. And our heartlessness is kindness. We never allow trees to overcrowd each other. The member at fault has got to go, no matter how rare, handsome or costly it may be.

We also have a large number of barely hardy shrubs which we plant out in summer and lift them in November and keep them over till April in a cold pit. We keep these for variety's and old acquaintance sake, and the trouble they give us is very little. Now such an open bed as this is a summer paradise for these shrubs. Conspicuous among these you may notice in the picture the two monkey's puzzle trees (Araucaria imbricata). There are also sweet bay, Portugal and Spanish laurels, strawberry tree (arbutus), raphiolepis, azara, evergreen berberis of several kinds, aucubas, English and Japanese hollies, evergreen magnolias, crape myrtles, nandina, leycesteria, evergreen euonymuses and many others. Among these temporary plants you may notice in the border behind the moss pink a strip of rosemary in bloom, then a continuation of the row of sweet myrtle (myrtus), and towards the far end a belt of the California pepper tree (schinus) raised from seed the spring before.

Groups of fine flowering French cannas in the distance add variety, luxuriance and brilliance.

Among the hardy shrubs in this group are a fine assortment of retinosporas, Japanese, Carolina and other hemlocks, many kinds of box, Berberis Japonica, broom, single and double furze, many euonymuses, yews, podocarpus, dwarf Cryptomeria Japonica, daphnes, ruscus of sorts, evergreen elæagnuses, bamboos, hardy heaths, the southern jasmine (gelsemium) and many ivies (hedera).

This group has given us a great deal of satisfaction and it has been a source of great attraction to visitors. There is something in bloom or otherwise interesting in it all the time. Because of its great variety you cannot give it a casual glance, you have got to look at every plant because in the interior every one is different. WM. FALCONER.

In the Tropics.

Castleton Gardens, in Jamaica, W. I., nineteen miles north of Kingston, affords as interesting a study of palms, as one could well wish for. Situated along the base of the Blue Mountain range, in a hot moist valley of equable temperature the growth is all that can be desired. Individual specimens are not so massive as you will find in the Botanical Gardens of Martinique or Trinidad, yet the natural advantages are far superior. A mountain torrent of a stream, divides the grounds on one side, forming beautiful cascades and water falls with natural basins where aquatics of all sorts are in their glory of prodigious growth. The water lily tribe are just in their element, blooming to their heart's content, from the giant Victoria regia down to the tiny forms of dwarfed lotus. The freest blooming semi-aquatic is Eucharis Amazonica.

This sweet spot of cultivated nature and also the Hope Gardens, in the suburb of Kingston are kept up at Government

expense, and are at once the attractive feature of the island to tourists and naturalists. At Castleton "in habitat" every known specie of Palm is supposed to be represented, and certainly the display is grand in general effect as well as in individual beauty of single specimens. A large Phœnix rupicola is the most perfect fountain of long green fronds that could be imagined, while rare and strange forms will immediately attract the attention of the ordinary observer and impress the connoisseur. Araucarias tower up a hundred feet and more affording a pleasing change to the infinite variety. Tall graceful Cocos flexuosa over top dwarf forms. Tree ferns and draccenas bank the whole as well as tropical shrubs and vines, presenting showers of bloom, solid masses of purple and crimson and gold bewildering the senses and dazzling the eyes of the beholder. Camphor, allspice, clove and other "scented" trees and shrubs fill the air with fragrance, agreeable and rare, at least to the Northerner, while the innumerable humming birds and bright hued moths delight the naturalist.

Most all tropical trees are glorious in brilliant bloom, vivid crimsons, lustrous purples, azure blues, gorgeous yellows and the most magnificent of them all is Amherstia nobilis, with long pendent masses of scarlet and yellow flowers, surprisingly similar to Cattleya blooms.

Orchids are suspended from mimosa trees, in long avenues and boulevards; crotons, jasmine and Hibiscus sinensis in variety are almost too common, and poinsettia likewise with flower bracts often 24 inches across!

If one could gather all this glorious wealth of floral bloom for an Easter decoration in any northern city it would seem to one unaccustomed to tropical luxuriance as if the gates of paradise were opened up to mortal sight; such, indeed were my impressions on beholding for the first time the morning light in the tropics.

GROVE P. RAWSON.

Elmira, N. Y.



Cypripediums.

C. PAVONIANUM INVERSUM.—A distinct hybrid, having for its parents C. venustum and C. Boxallii, the former being the seed parent. Sepals large and pointed, of an apple-green color heavily shaded with blackish brown; petals of the same color, spotted in the upper portion; lip light green shaded with brown. The whole flower has a shiny appearance as if varnished.

C. MAGNIFLORUM.—A beautiful and rare species of recent introduction, producing its flowers on a tall stem 2 to 3 feet high. Sepals long and pointed, yellowish green; petals long and narrow, greenish and twisted several times; lip very large and long, yellowish in color.

C. JOSEPHIANUM.—An American hybrid of great merit, raised by crossing C. Javanico-superbiens with the pollen of C. Druryii. Of very robust growth. Sepals white, beautifully veined with green; petals of the same color except the purplish line through the middle and a few spots in the upper portion; lip yellowish green shaded and spotted with purple.

C. TESSELATUM PORPHYREUM.—One of the best hybrids produced up to date. It was obtained by crossing C. barbatum with the pollen of C. concolor. Leaves broad and short, beautifully tesselated. Sepals large, almost flat, veined and shaded with vinous purple; petals of the same color, twisted several times; lip long and narrow, yellowish shaded purple.

C. SUPERBIENS.—Known also under the name of C. Veitchii. This is one of the best cypripediums. Leaves beautifully variegated; flower large, well proportioned; sepals whitish veined green; petals greenish white suffused with pink and spotted all over with dark spots; lip large, purplish.

JOS. MANDA, JR.

New York.

NOTED AT THE ORCHID SHOW.

The fact that two orchid shows in one locality can attract such an extensive following, both in and out of the trade, shows in itself that the interest in this class of plants is not a temporary craze. It is doubtless a more intelligent interest than it was a few years ago; people know more about orchids than formerly and the same thing may be said of other plants.

Siebrecht & Wadley had to contend with adverse circumstances in the arrangement of their show, for the young blizzard that attacked us in the beginning of the week caused both loss and delay in the transportation. Mr. Siebrecht only reached New York two days before the show, from Trinidad, his steamer being several days overdue, and this delay caused the loss of some botanical curiosities from the firm's West Indian plantation.

The first noticeable feature of the show was a pyramid of foliage plants in the entrance hall, crowned by a beautiful cycas. The arrangement was so graceful and the effect so imposing that it was enough to convert anyone to the belief in plant decorations, as opposed to those of flowers alone. Siebrecht & Wadley were pioneers in the use of decorative plants; most of us can recollect the time when flowers, and flowers only, were the rule in house decorations. Speaking on this subject, Mr. Wadley stated that when arranging a dinner table they make a point of using a few plants in the room, perhaps in a window or in any niche where they prove effective. Without them the table decoration looks incongruous and unfinished; the plants make it seem part of the harmonious whole.

The largest display at the show consisted of Cattleya Trianæ and there were some fine varieties, though no very large pieces. A most exquisite form of white Trianæ was to me the loveliest thing in the show; the color was so absolutely pure and the flower large and well shaped. A valuable form of Trianæ alba for present standards demands vigor and beauty of form as well as departure from the usual color. As a foil to this were some very dark Trianæ, the lip of unusual size, and very broad sepals. A plant of C. labiata was of great interest; its recent re-introduction has directed so much attention to the plant.

A charming little piece of Dendrobium Phalænopsis was noticeable for its excellent color. There were surprisingly few cypripediums at this show. Among the cut blooms from the collection of Mr. Hicks Arnold was Cypripedium microchilum, an exquisitely dainty little thing, comparatively rare. It is quite suggestive in color of its parent niveum, but the two little green eyes are distinct. Mr. F. L. Ames, who was a visitor at the show, is a great admirer of this family of orchids and named C. insigne Sanderianum as his special admiration; the color and marking is so handsome and distinct. C. insigne really appears to be the florists' cypripedium; apart from its easy culture it appears in so many variations of tint and harmonizes so well with brighter flowers in decoration.

A big plant of Cymbidium Lowii, with five fine spikes of bloom, occupied a conspicuous place at one end of the main table. A good many paused reverentially at this table to look at a handful of strelitzia in the Christopher Columbus jug from San Domingo. It recalled the time when a new rose—I think Her Majesty—was first shown in New York. The blooms were displayed in what was labelled as the original peach blow vase, though there is reason to believe this piece of bric-a-brac hailed from Macy's rather than the Morgan collection.

In the Goodridge collection there were some very fine phajus, also an exceedingly good variety of Odontoglossum grande.

The Kimball collection of cut flowers was, as always, extremely good, containing a quantity of fine cypripediums. Among other flowers were some anthuriums; a large bloom of A. Andreanum was of special interest to the writer, being from one or two originally imported plants, formerly in the Such collection at South Amboy. The other plant of this pair is in the Carpenter collection at New Brunswick. The flowers are exceptionally large; it appears to be the best variety known.

A rare orchid, described by the New York *World* in the Short Hills collection was named as *Cyclone crista ala alba*. It was not noted at the Eden Musee, but after wrestling with the combined inaccuracies of reporter and printer we may infer that the plant meant was Cœlogyne cristata alba. One often needs a good deal of detective ability to identify an innocent botanical name in the average newspaper.

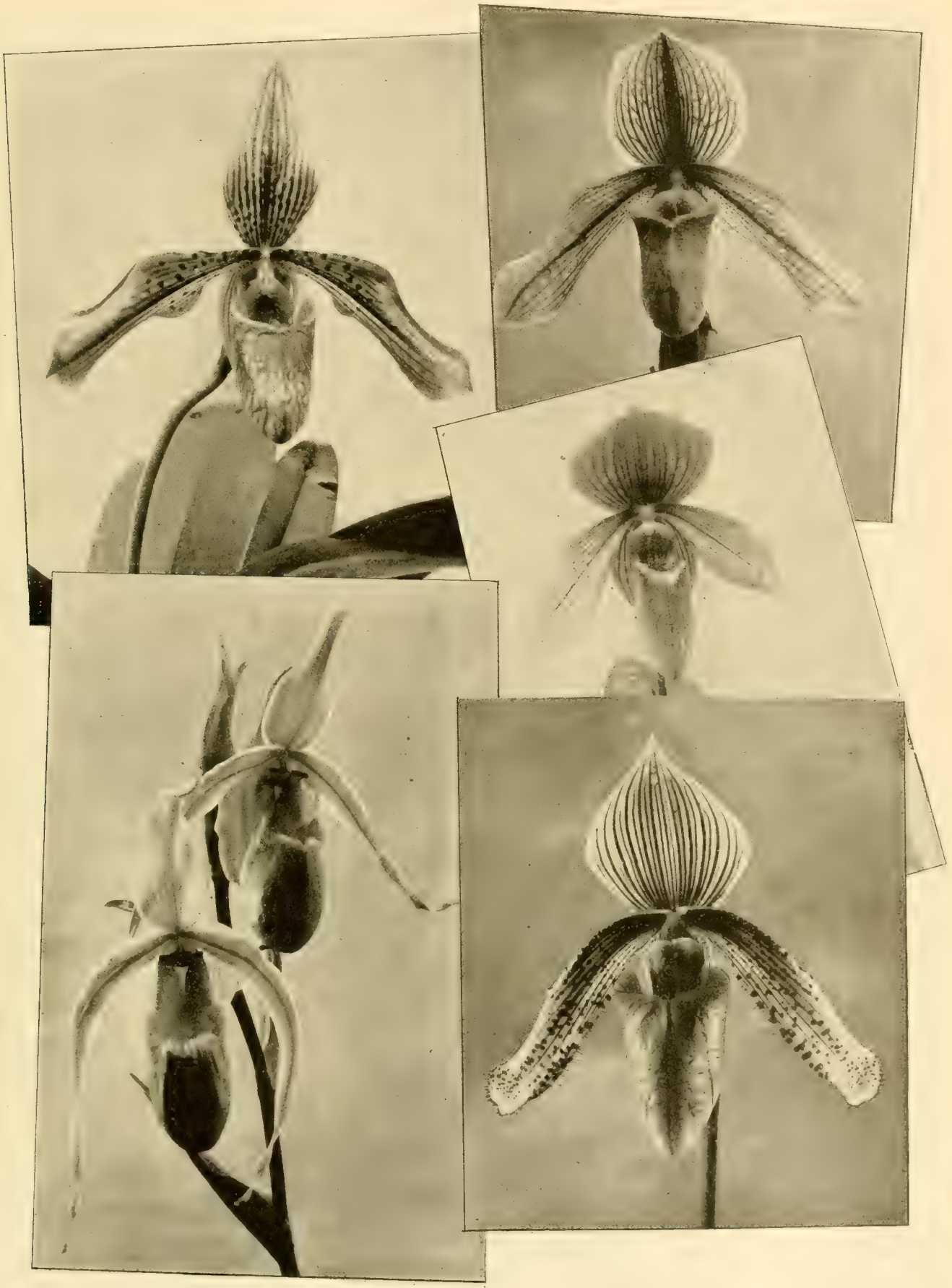
A cluster of cocoanut bloom in its big boat-like sheath was a souvenir from the Trinidad plantation, while a big orange and crimson cocoa pod suggested another enterprise on the part of the same firm. In addition to the palms, etc., S. & W. are now planting coffee and cocoa in their tropical nurseries. The culture of palms and decorative plants at this place has already passed far beyond the experimental stage, while another annex is the culture of bulbs in Bermuda. Experience proves that home-grown Lilium Harrisii cannot possibly compete with the Bermuda-grown bulbs, if only for the lack of proper ripening.

A feature to be commended in this show was that the orchids were not mixed indiscriminately with other flowers. The arrangements was uniformly graceful, though the Musee has been altered in a manner very awkward for a flower show, and the general wish expressed by the visitors was that the firm will feel inclined to continue their annual show.

EMILY LOUISE TAFLIN.

Variations in Nature.

It has long been a recognized fact that some varieties of flowers produce more variations than others, or, rather, more correctly speaking, produce variations where others do not. One of the most prolific of this class has been that beautiful rose "Baroness Rothschild." We



CYPRIPEDIUMS

C. PAVONIANUM INVERSUM.
C. MAGNIFLORUM.

C. JOSEPHIANUM.
C. TESSELATUM PORPHYREUM.
C. SUPERBIENS.

have as offspring three distinct sports, Mabel Morrison, Merveille de Lyon and White Baroness. It may seem a little strange that one variety of rose should be more inclined to sportiveness than another. Another variety that has given us three distinct colors is the old Safrano, yet again another one (although it is very rarely that the dark varieties sport to any extent at all), namely, Agrippina, gave us a climber somewhat different in texture from the original parent.

The last one I will name is Catherine Mermet. To the florists of this country that lady has given more than any other flower of the age. Possibly some of your readers may think I am egotistical when I say that the Bride is the most valuable rose that has been introduced into America during the present century. Last year we were treated to another sport from this rose, the Waban; now we have still another, the Bridesmaid. This is a variety that has been advertised somewhat under the name of the "Hugh," but as there seemed to be considerable opposition in the minds of the growers and retailers as to the adaptability of the name to such a beautiful rose, after consulting a good many of them in regard to the matter, as there is undoubtedly a good deal in a name (in spite of Shakespeare to the contrary) Mr. Moore kindly consented to change the name, and I am sure that those who have decided to grow the rose this coming season will not regret its having been done, neither can critics claim that the name will conflict with any other now on the long list of rose names.

Referring again to the sportiveness in character of different flowers, many interesting things could be said under this heading and we would like to hear what some of your correspondents have observed in this line in regard to our popular flowers throughout the country.

JOHN N. MAY.

Some of the Seed Novelties

BY WM. FALCONER.

[*Continued.*]

CENTAUREA MARGARITÆ.—Said to be a handsome white flowering biennial, but if sown early to bloom the same year like an annual. Said also to be a new introduction of '91.

GOLDEN MEXICAN CLEOME (Cleome aurea).—An annual bearing corymbose racemes of bright yellow, showy flowers.

CYPRIPEDIUM SEED is certainly something unique in our seed lists. But now-a-days these orchids are being raised by specialists in hundreds from seed.

GLOXINIA CORONA.—Unusually large flowered. Throat, deep violet red, and veined; orifice, indigo blue.

HELICHRYSUM, SILVER BALL.—The best of the white flowered helichrysums. It did fine with me last year.

HELIOTROPE, LEMOINE'S GIANT HYBRID. Vigorous growers blooming freely the first year from seed, and the seed germinates quite readily. But we cannot reasonably expect uniformity in size or coloring from heliotropes, any more than from ageratums or geraniums raised from seed.

IMPATIENS SULTANI, HYBRIDS.—The term hybrids here is a misnomer. But the species has been broken, and now we have various shades of salmon, rose, pink and violet. These Zanzibar balsams are very easily raised from seed, and they grow and bloom beautifully out of doors in summer, and naturalise themselves with the freedom of a clover-oxalis about the paths, benches and pots in the greenhouse.

IPOMÆA SETOSA.—I grew this plant a dozen years ago, as I have grown scores of other plants not yet offered in seed lists, but this does not detract in the least from its genuineness as a novelty. It is an exceedingly rank grower running 20 to 30 feet in a season, in fact it is a pronounced example of tropical luxuriance. In late summer its reddish-purple flowers are borne in threes in cymose bunches.

IPOMŒA BRONSONI offered last year was I think, the rankest growing vine I ever planted; the vines ran out 30 to 40 feet along a fence, but showed no signs of blooming. Restricted root room or hard wood no doubt would induce blooming.

IPOMŒA HEAVENLY BLUE.—This was raised by Mrs Theodosia B. Shepherd, of Ventura, California. Last year Mrs. S. very kindly took great pains in explaining its whole history to me, and sent me flowers, leaves and stems of the plant, also seeds and photographs, from all of which I am satisfied the plant is one of exceeding great beauty, and the color is the loveliest blue imaginable. Mrs. S. is satisfied that it is a natural hybrid between Ipomæa Leari and Mina lobata, but I cannot help being a little sceptical on this point; I would suggest you grow it and Ipomæa rubro-cœrulea near each other for comparison's sake.

A MEXICAN DOUBLE-FLOWERED MORNING GLORY is now offered and presented in very high terms. Two years ago I was consulted about such a thing but I had never seen anything of the kind. We are told it bloomed profusely near Brooklyn last summer and that its flowers are as large and full double as those of double petunias, in solid and variegated colors, in all shades of pink, red, blue, purple and white.

IRIS ROBINSONIANA, Doryanthes excelsa and some others of their nature may be termed Job plants, because of the patience we would have to possess to wait to see them bloom. This iris grows 7 to 8 feet high and is the most gigantic of its race. It is indigenous to Lord Howe's Island off the east coast of Australia, and will probably be hardy and a valuable addition to the garden plants of Southern California and the Gulf coast. A few years ago it was more commonly offered in seed lists than it is today. The flowers are white, beautiful, ephemeral, opening a few at a time, but continuing in bloom for months. Noticed two years ago in The FLORIST.

MARVEL OF PERU.—A variegated-leaved one with white flowers.

MIGNONETTE.—Among the varieties made most of are "Reseda grandiflora alba pura" with pure white flowers, and Guihieneuf's Ruby or giant red.

FORGET-ME-NOTS.—Blue Perfection, a form of dissitiflora; and a rose-colored form of alpestris Victoria are highly recommended.

MALVA MOSCHATA ALBA appears again. Not at all new, but a hardy perennial, easily raised from seed and worth having.

MELOTHRIA ABYSSINICA.—A neat-habited, free-growing plant of the ornamental gourd race, bearing a profusion of small orange-colored fruit.

MOLUCELLA SPINOSA.—A gigantic shell-flower from Assyria. Annual or biennial. The commoner M. lævis has long been in seed lists and cultivated more for its oddity than beauty.

MIMULUS CARDINALIS PICTUS, with golden-yellow corolla, and purplish-scarlet eye and throat; aureus, pure yellow; and carneus, creamy-white or rose-colored are forms of a pretty species of Oregon and California. Easily raised from seed, and although a perennial may be treated as an annual.

MUSA MARTINI is a new banana plant for which much is claimed. Of smaller proportions than ensete, and hardier, and the seeds are said to germinate quickly and almost without fail.

NELUMBIUM LUTEUM, the American lotus, is made a specialty of by one firm. It is a very beautiful water plant when established in our ponds, or ornamental tanks, and like hardy pond lilies of any sort, can also be grown in tubs or half barrels in the open sun in summer, and the water emptied off and the tubs put down cellar in winter. It is perfectly hardy.

NICOTIANA COLOSSEA has appeared for a year or more. It is the most gigantic of the tobacco plants; I don't mean that the seeds are gigantic or the packets of seed, they are both minute enough. I have also sown some seed of N. glauca, an old friend, and in general appearance the best substitute for eucalyptus I know.

ŒNOTHERA ROSEA.—Why leave my little friend in the 5 cent rank and file in seeds and spread its glory as a plant in warm paint and praise?

PANSIES.—Some of the best under new names are selections from Odier, Cassier, etc., strains unsurpassed for excellence.

PYRETHRUM ULIGINOSUM.—A capital hardy perennial, daisy-flowered, easily raised from seed and blooms the first year. Being old as the hills does not detract in the least from its merits; but the illustration of it I find in many catalogues in fictitious.

THE TULIP POPPY (Papaver glaucum); A dwarf annual poppy obtained by Herr Max Leichtlin, Baden-Baden, from Armenia. It belongs to the corn-poppy race, and has bluish-green leaves, and vivid scarlet showy flowers, reminding one of a Duc Van Thol or Vermilion Brilliant tulip. The two outer petals form a cup; the inner petals are more erect and clasp the anthers.

CARDINAL POPPY has very large full double flowers of vivid scarlet on a white ground. Empress of China is a very large single flowered poppy; blossoms white, feather-margined with scarlet.

PETUNIAS.—The clematis-flowered are so named because of the resemblance of their open blossoms to those of clematises of the Jackmanii group. Ring of Emerald is a dwarf form with crimson flowers broadly banded with green. Steel-blue, veined, expresses the color of the flower, which is also prominently reticulated with nerves. The Giants of California are represented as having flowers 4 to 5 inches across and ruffled or frilled at the edges. These measurements are modest enough; some of my superbissimas last year were bigger than that, and mine were as nothing alongside some of the California Giants Mrs. Gould sent me flowers of from Ventura. Pink Mound is a dwarf bedding variety with rose-pink flowers.

PRIMULA OBCONICA GRANDIFLORA.—Said to be a hybrid between P. obconica and P. cortusoides amæna, to be perpetual blooming, and yield rose-colored flowers larger than those of obconica.

ROSEA POLYANTHA HYBRIDA.—These roses are said to be easily grown from seed and the plants to bloom the first year. I didn't try it last year, but will

this spring. Did any of your readers try it? There is nothing difficult in raising roses from seed, but, except in the case of plain species when like produces like, it is a very rare occurrence to raise anything worth saving from seed.

SAGITTARIA MONTEVIDENSIS. — One of the South American arrowheads, now frequently seen in summer in pond lily tanks in gardens. It is a capital grower, and bears long spikes of white blossoms. It must be wintered indoors as it is not hardy. But as it ripens lots of seed, and the seed if sown early in warm quarters will give blooming plants the first season, we may treat it as an annual if we want to.

SALVIA HIANS, a perennial best treated as a biennial, from the Mountains of Cashmere. Neither new nor very beautiful. A somewhat coarse plant.

SCHIZANTHUS PINNATUS NIVEUS is said to be the whitest flowered variety of this common annual.

SOLANUM ATROPURPUREUM. —A formidable spiny plant from South America, and not infrequently used in subtropical beds in our gardens in summer, both for its foliage and ornamental fruit.

HYBRID STREPTOCARPUSES occupy quite a prominent position again this year. They are very beautiful free-blooming little plants, but as the seed is very fine and they don't germinate very quickly it takes considerable patience to get up a stock of them.

TRITOMA LEICHTLINI AUREA.—A rare, very interesting and desirable variety of torch lily. The plant is dwarf, altogether herbaceous or deciduous, sparsely leaved, and the flowers are entirely yellow. A curious feature about it is that the flowers at the top of the spike begin to expand before those at the base; in this particular they act contrarywise to those of the other torch lilies in common cultivation, which open from the base up. Tritomas are South African plants, almost but not quite hardy here, perennial and easily raised from seed, the seedlings, if strong, blooming the second year.

"NEW REMONTANT TRITOMAS" are said to be from crosses between "corallina, Rooperi, MacOweni, etc." These torch lilies do intercross whenever opportunity affords, just as corn or cucumbers do. And as they grow quite readily from seeds this is a good way to get up a stock of them. It is very interesting to note the difference between the seedlings, some plants will be much more vigorous than others, some will have narrow and others broad leaves. The flowers and style of blooming too may be different.

VERBENA HYBRIDA ERECA COMPACTA.—A very dwarf and compact variety, forming little cushions about 6 inches high and wide; flowers of good size and various colors.

VESICARIA SINUATA.—Vesicaria græca and V. utriculata are pretty little yellow flowered crucifers that we used to treat as hardy biennials. They bore their yellow blossoms in late spring and these were soon succeeded by inflated seed pods. But the sinuata I am unacquainted with.

AMONG ZINNIAS the dwarf habited double flowered form of Z. Haageana keeps well in front, and it deserves to, for it is quite pretty. There is also a variegated leaved variety of the common zinnia. But really I don't know that gold splashes or spots on the leaves will be much of an extra attraction to these coarse but indispensable annuals.

Washington.

Electricity has of late played an important part in many of the most effective floral decorations, and the novelty of its application was strikingly illustrated the other evening at a dinner given at the Arlington by the Montana millionaire De Lamar to Mr. and Mrs. Russell Harrison, where the Smalls surprised the guests with what one not inappropriately styled "floral pyrotechnics."

The table was an elongated oval set for 39 covers. In the center was an oval mound some five feet in length made up of maidenhair ferns interspersed with clusters of La France and white lilacs. From the middle of the mound rose to the height of four feet above the table a superb specimen of Areca lutescens, the base resting on the floor, while its long and gracefully overhanging fronds were strung with innumerable closely wired miniature incandescent electric jets of various colors. Near either end of this table, opposite to one another, were two small round mounds of ferns from the midst of which rose great clusters of long stemmed Laings encircling sprays of white lilacs. Beneath the maidenhairs in these fern mounds, hid from view, incandescent lights imparted to the foliage a wonderfully vivid yet delicate green. Immediately above the areca, from the center of the ceiling, were suspended 16 electric cables—four larger than the rest, extending to the four corners of the room, entwined with smilax and studded with 16 candle power incandescent jets, while the intervening shorter cables were twined with Asparagus plumosus and studded with vari-colored miniature jets, the whole forming a marquee shaped canopy of which the central portion constituted a closely woven net work of A. plumosus.

From the center immediately over the areca was suspended a large magnet, the sides of which were encased in steel springs clamped at the base by an iron catch which adhered to the magnet by virtue of its polarity, the catch being so arranged that any interruption of the electric current would cause it to drop and the springs to suddenly fly from their perpendicular into a horizontal position, not unlike the sudden opening of a closed bud into a full bloom rose. And here the ingenuity of the decorator came into play. He wired innumerable short stemmed full blown La France roses to bits of iron which readily adhered to the strongly magnetized steel springs and iron plate clamp so as to form a huge ball of real roses, two similar balls or globes of roses being suspended over the table from chandeliers on either side, equal distance apart. These floral globes proved to be the feature and surprise of the evening, for, constructed as they were, it enabled Mrs. Harrison, seated at the right of the host at the close of dinner, just as the guests were arising, by touching a concealed electric button to break the current of electricity and drop the clamp a few inches below the magnet, causing the springs suddenly, amidst exclamations of wonder and delight, to fly open and rain down upon the assembled guests a veritable shower of roses.

The ladies at this entertainment were all supplied with the choicest of corsage bouquets and the gentlemen with boutonnieres. The reception, ball room and buffet were all elaborately decorated with foliage plants, azaleas and lilacs, while vases of the finest Magna Chartas, Beauties and Brides occupied every available space. The Smalls on this occasion certainly scored a decided success.

With the commencement of Lent closes the great rush of this winter's season. All larger society entertainments will cease, but also with Lent commence here in Washington more especially, those attractive little social gatherings which in the height of the season had to be neglected—so-called informal teas, familiar calls and brief visits of Sunday afternoons among foreigners. Florists who have the requisite material will always find a ready demand for novelties. Among the busiest of the busy are the two end men of the florists' line along F and Fourteenth Sts., C. F. Hale and the genial Durfee, of the Masonic Temple flower store (Strauss & Co.) The Gude Bros. and Freeman, in their new and more spacious establishments, have evidently also done well. Violets of fine quality are plentiful again, while carnations are decidedly scarce. Jacqs are not about yet, and Brunners, Meteors and Woottons do service in their stead. The old favorites, La France, Brides and Perles, are plentiful and fine.

The last of the White House State dinners for the season was given in honor of the Supreme Court and the floral decorations were all in yellow. The table was set for 50 covers, the same as at the Diplomatic dinner. In the middle at either end and in the center were low vases filled with narcissus (double Von Sion and Trumpet Major). On either side of the center piece, along the middle, were low oval baskets containing fine specimen plants of Ananas sativa variegata, and on each of the four corners of the table stood low vases filled with choice Perles. Each finger bowl contained sprigs of lemon verbena and valley. The boutonnieres of the gentlemen were Perles and the ladies had yellow satin Watteau bows with their names on one, while on the other was the White House, both in gold. One of the mantels was banked in Perles and Niels framed in overhanging adiantums, the other in Trumpet Major narcissus with a similar border. The chandeliers and wall brackets were draped with Asparagus tenuissimus. The reception parlors, and especially the east room, were rich in their array of foliage plants most artistically arranged in center and alcove groups, while the broad mantels of the east room were fairly aglow with the brilliant hues of exotics, many of the finest plants I am told coming from the government nursery in charge of Mr. Geo. H. Brown.

A noticeable design was recently prepared by Strauss & Co. for the funeral of the late captain of the Capitol police. It consisted of a large scroll of galax leaves, five feet high, with a placque of white La France, Mme. Pierre Guillot, Brides and valley, running diagonally across it and tied at the upper left hand corner with a broad satin ribbon. At the upper right hand corner a small silk U. S. flag was draped with crape and over it hovered a dove with outstretched wings.

Cadmus has removed from his old place of business on R street and opened a fine establishment near by on Fourteenth St., between R and S streets.

Miller has closed his city salesroom on Fourteenth street for the season.

An appropriate and somewhat novel center piece appeared on the table at a dinner recently given by some prominent gentlemen here to Mr. Frank Thompson, president of the Pennsylvania railroad. It consisted of an embankment 6 feet long, 15 inches high and 3 feet wide, made up of smilax and laurel. The road bed was laid with select white gravel, the ties were of Roman hyacinths, the base of the rails of yellow campernelles and

their upper surface of white carnations. On each side of the embankment appeared in pink carnations the word Pennsylvania. The table itself was festooned with Asparagus plumosus and was adorned with several large vases filled with Mme. Pierre Guillot and Wootton roses. The design came from the Masonic Temple floral establishment (Strauss). Z.

The formal opening of J. R. Freeman's beautiful new flower store on 13th street took place on February 25. The place was magnificently decorated with plants and flowers and was crowded constantly with visitors. The store is 103 feet long, the back part being finely lighted by an immense skylight and the finish is all in white and gold so that everything shows off to best advantage. Throughout the store, in corners, on pedestals and vases and in a grand group in the rear portion were choice azaleas, genistas, Harrisii lilies, amaryllises, dracænas, ardisias, kentias, arecas, latanias, araucarias and other show plants, some of the palms and araucarias from 8 to 12 feet high, besides masses of lily of the valley in boxes, tulips, narcissi, English primroses and daisies, Adiantum Farleyense and other ferns. Among the most noticeable ferns were specimen plants of Nephrolepis davalloides furcans with a natural spread of over 6 feet each and one of N. davalloides spreading at least 8 feet. Some fine blooming plants of cattleyas and other orchids added richness to the display.

At the end of the counter was a handsome green shaded vase 6 feet high, filled with 150 spikes of Harrisii lilies with Asparagus plumosus trailing to the floor. On the white marble counter was a superb display of cut orchids and Farleyense in cut glass bowls set on mirrors, and behind these were tiers of choice flowers in every variety, beginning in front with violets, forget-me-nots, mignonette, lily of the valley and lilacs and backed up by large vases of Brunners, Luizets and Beauties.

The window display was also very attractive and was composed entirely of growing plants. A margin of maidenhair fern, then boxes of lily of the valley, next Azalea Mme. Van der Cruyzen flanked by groups of white lilacs and the background formed of Harrisii lilies, nephrolepis and palms.

One experience connected with the opening we will let Mr. Freeman relate in his own words: "In conversation with a representative of a morning paper I said my intention was to present each lady visitor with a small bunch of flowers, but that I had not advertised the fact for obvious reasons. Judge of my surprise when I picked up the paper next morning and found he had announced the proposed distribution of flowers. The result was that we had as much as four men could do all day to attend to the recipients of our bounty. Just how much stuff we disposed of I am afraid to tell lest I may deprive somebody else of the experience to be gained by such an experiment.

"But the most peculiar experience came in receiving all through the day and evening missives requesting that on account of the weather or the indisposition of the writer, would I please send by bearer the flowers that would have been received had the writer been present. Probably the richest of all was a young fellow who said he was employed in the auditor's office, U. S. Treasury, and represented that there were 4 or 5 ladies in his office who were unable to come on account of the weather and had requested him to call and get their flowers for them. I reached for the order book and said, 'will you kindly leave the address of each lady and I will send a wagon to their respective homes and deliver the flowers, as I should hardly care to trouble you to carry them.' He hesitated a moment as if about to comply, when catching the eye of an employe who was enjoying the situation he suddenly 'caught on,' and saying 'I believe I won't do that,' he took a hasty departure.

"All through the day we had old servants, male and female, presenting the compliments of their mistresses, and 'would I please'? etc., etc. And still on Friday and Saturday they came by the dozens, belated but none the less earnest in their requests, and I suppose they will keep coming until the days are too warm for them to make the necessary exertion and probably this may follow me for all time, as they are liable at any time to pick up an old paper containing the fateful adv., and persuading themselves that it is a perpetual offer, I may be allowed the opportunity and privilege of reducing my stock in so cheerful and effective a manner.

"This was the funny part, but the number who received and fully appreciated the compliment with words of thanks and congratulations and good wishes and whose sincerity was plainly written on their faces fully recompensed me for the experiment."

New York.

The break in prices of cut flowers has been remarkable in its suddenness and completeness. The market has gone entirely to pieces.

The quantity of flowers coming in is rapidly increasing, and the commission dealers are at their wit's end to dispose of the accumulating stock. Two or three wintry days during the past week have acted as a slight check to the panic, but the respite is only temporary.

Roses of all kinds are piling up fast. For large quantities prices are quoted as low as $20 per 1,000. None are sold at these figures in small lots, but the heavy buyer has had no trouble to stock up at such prices. There is still a fair supply of extra fine hybrids and American Beauties in the market, and the price on these remains in the neighborhood of $6 per dozen. The Baroness Rothschilds and Mabel Morrisons from J. N. May, and Magna Chartas from Julius Roehrs are superb, and L. C. Nash and F. R. Pierson & Co. are still on top with their Beauties. The Gontier seems to hold its own better than any of the other small roses and is sold out readily every day. Jacqs are getting very plenty, the price realized now for average stock running but slightly ahead of Mermets and Cusins.

Carnations, violets, lily of the valley and Harrisii lilies are faring as badly as the roses. Valley is offered as low as $10 to $15 per 1,000 and Harrisiis as low as $3 per 100. Tulips also have been sold as low as $10 per 1,000.

The retailers have not begun to complain much yet regarding the effect of Lent. Thorley claims to have had no trouble from that cause so far. He is particularly elated over the success of his decorations at the two Havemeyer dinners recently. There were two tables used each time, each table being 18 feet long. The decoration on one table was a mound of Anna Alexieff roses, and on the other lilacs and cattleyas, each mound being 13 feet long and 4 feet wide. Daffodils, acacia and mignonette tied with apple green ribbon form a very handsome combination for opera bunches. These bouquets are placed so as to form a mound in the center of the table at dinner and are afterwards distributed.

The regular meeting of the Florists' Club was held at Germania Hall on Monday evening, March 14. The interests of the members and the club's best course to advance such, was the subject for discussion. The discussion was brief, however, most of the evening being devoted to arguments on the proposed club room.

Mr. May showed some drawings of the proposed vases for exhibition of cut flowers, which gave general satisfaction.

A communication from the manager of the coming Actor's Fund Fair was read offering a silver cup as a trophy to be competed for by the retail florists on different evenings during the continuance of the Fair. The matter was referred to a special committee.

An invitation from the Buffalo Florists' Club inviting members of the N. Y. Club to attend their annual banquet was read and a vote of thanks for the same was passed.

The committee entrusted with the duty of selecting and recommending a suitable location for a permanent club room which should be open continuously for the use of the members, reported and were instructed to engage rooms at a cost not to exceed $1,000 per annum, including all expenses.

The bill relative to the shipment of diseased plants, now pending in Congress, was discussed at considerable length, and a committee consisting of Messrs. O'Mara, Dailledouze and May was appointed to protest against its passage.

Dailledouze Bros. made an attractive exhibit of Carnation Miss Moore.

The meeting was well attended and more interest than ever was displayed by the members.

The Klunder Company's store is closed up. Creditors who have been hunting for assets report nothing favorable as yet and it looks dubious for them. Several wholesale dealers are badly bitten. The name of Klunder seems to carry ill fortune with it wherever it is used.

Johnnie Weir's store in Brooklyn was the scene of quite a little sensation recently. A colored man who lives next door rushed in, revolver in hand, shouting "Where's the man who destroyed the peace of my family?" All the customers made a bolt for the door. As the colored gentleman had been married but 24 hours at this time his conclusions were regarded as premature and he was locked up. Johnnie says the man had a "hallucination," but it was full two days before Johnnie was himself again.

The auction rooms begin to show signs of spring activity. Young was the first in the field with a lot of fine trees and shrubs from Holland on March 10. Prices obtained were good. A lot of young pink pond lily plants also brought satisfactory prices. Elliott's first sale will take place on Friday, March 18, and will consist of dormant stuff, such as Holland shrubs, tuberoses, gladioluses, caladiums, etc. Mr. Elliott reports the seed trade as having recovered from the slight depression of February and now quite good.

Mr. W. A. Bridgeman, of Thorley's, met with a sad bereavement recently in the loss of an 11-year old daughter and a 2½-year old son from diphtheria.

Mr. Chas. Thorley proposes to go south for a ten days' recreation trip.

J. A. Penman reports the sale of the Dictionary of Gardening as still continuing steadily.

The sudden cold snap of March 11 caught some of the growers napping and in some cases they had a very narrow escape.

The chrysanthemum show at Madison Square Garden next fall will close on November 6 instead of 7 as previously stated.

Visitors from Pittsburg this week: Mr. B. L. Elliott and Mr. A. M. Murdoch.

Philadelphia.

The crop of Easter lilies promises to be very good, all the lily growers having fine benches in various stages of growth.

C. D. Ball of Holmesburg has great success with L. longiflorum; he confines himself to this variety and claims it to be much better than Harrisii, being the earliest, most graceful in appearance and a great deal the best keeper. If it should happen to be warm weather at Easter time, and it very often is when Easter is as late as it is in this season, the Harrisii fades quickly, as it cannot stand the heat, while the longiflorum, having more body to the flower, will hold out much longer. The erect habit of the flowers makes it easier to pack when shipping, which is another point in its favor.

There is some of the lily disease around, but not enough to be alarmed about. Robert Craig claims it is in the bulb and can be easily seen in bulbs affected when cut open. Joseph Becker is of the opinion that careless watering and condition of the atmosphere in the house is productive of most of the trouble. He says that he can trace what little he has to these causes. His lilies will be fine, as will also Mr. Craig's; he is growing a lot in 10 inch pots, three bulbs to a pot. He had a few planted this way last season and there was great demand for them.

No *ixias* this year, however. We believe it was a gentleman somewhere in the neighborhood of Brooklyn who first saw the gold mine in these little bulbs and then smole a smile when he heard his Philadelphia brethren had commenced to dig there too.

Just before Mr. Harris sent out his lily he was planting some of the bulbs, when Mr. Craig happened in and remarked that he wouldn't get much out of that lot until next year. Picking up a bulb not much larger than a pea Mr. Harris said: "Why, there's a bulb that will produce a flower this season." "I'll go you a high hat it don't," was the reply. But it did, and Mr. Craig is now a better judge of high hats and Lilium Harrisii.

Business is moving very well for Lent, Saturday last being a very busy day all around. Roses are plenty, but do not seem to accumulate to any great extent. Mermets, Brides and La France sell for 8; Perles, Gontiers, Sunsets and Niphetos bring 5; hybrids from 25 to 50. Bulbous stuff is plenty. Valley is selling for 4, tulips 4 to 5, daffodils 4. Carnations hold up very well. Baker, who handles the greater bulk of them, has dropped the price one-fourth of a cent and now asks $2.25 a hundred for the best. It must have caused him several sleepless nights to do this.

The result of the investigation of club root in roses is anxiously looked forward to by rose growers about here. Mr. Lutz has had some specimens of club root examined by professors at the University of Pennsylvania and they say it is caused by a minute insect not visible to the naked eye.

The same gentlemen have also under examination Bermuda lilies which seem to be affected with some sort of disease. It is to be hoped they may be able to find out what is the matter and suggest a remedy.

Mr. M. A. Hunt paid a flying visit to this city this week.

Boston.

The bottom has fallen completely out of the flower trade, not gradually and gently, but all at once and with a "dull thud." Everything is plentiful. Roses have fallen 50 per cent in prices and carnations have not fared much better. The street fakirs wear a smile such as has not been seen on their faces for a long time as they parade with their big displays of carnations and violets. Carnations and street fakirs have been strangers to each other for many months. Lily of the valley, too, is in the same plebeian company and is to be seen piled up actually by the thousand on the street corners.

It does not cost the retail florists much to keep a gorgeous display in their windows at such times and just now there is quite a respectable horticultural exhibition to be seen in some of the larger establishments. Yellow seems to have its inning at present. There are quantities of yellow daffodils, genistas, nasturtiums, coreopsis, primroses and acacia, and the big vases of Jacqs which are also to be seen everywhere make an effective contrast to the brilliant golden colors. Galvin's windows looked especially pretty one day this week. One of them was bordered with selaginellas and yellow primroses massed together and in the other were some pans of orange and purple crocuses overshaded with araucarias.

Passing flower stores on these spring-like days the fragrance of candidum lilies, which comes through the open doors, forcibly reminds one of the fact that Easter is near at hand. Preparations for this important event are everywhere apparent. The crop of lilies, all varieties, will be heavy and the prospects are good for a fine supply of roses. At Waban Rose Conservatories there are a couple of houses of Jacqs, which, according to present appearances, will be unprecedentedly fine. Fred Mathieson is bringing in superb Grace Wilder carnations. The color has been good all through the season with him.

Horticultural building in this vicinity in the future bids fair to be of a more substantial character than much of that hitherto erected has been. The best is the cheapest in the end. Two representatives of horticultural building establishments, Mr. L. Pierson and Mr. C. W. Wethered, have been in town this week looking over the ground.

The tickets for the March dinner of the Gardeners' and Florists' Club at the United States Hotel are out and may be obtained from any of the wholesale or retail florists in the city.

The Mass. Horticultural Society's spring exhibition will open on Tuesday, March 22. A fine show is promised. Mr. J. H. Woodford has been elected chairman of the committee of arrangements for 1892, Mr. P. Norton having declined to serve longer in that position.

A. P. Calder, the Boylston street florist, has been arrested on a charge of embezzlement of $15,000 as secretary of the Mutual One Year Benefit Order. Bail to the amount of $15,000 was furnished.

Baltimore.

The Baltimore Florist Club met at the old quarters Monday, March 14, at 8 p. m., about 60 members present. All routine business was left over till next time for there was a feeling of a good time coming and a hilarious good fellowship among the members that made them very impatient of any delay in the proceedings and probably contributed largely to the speedy result of the election, as in one instance only was there the least trace of a close vote, viz.: the vote for president. Messrs. J. Clark, A. Scott, Jas. McNab and P. C. Erdman were elected members of the club, and after a report from the hall committee recommending a new place for meeting and the reading of special premiums offered for the chrysanthemum show (among which were one of 12 of his newest seedlings by T. H. Spaulding, silver cup by Pitcher & Manda, silver cup by Mrs. M. J. Thomas, and gold medal by J. C. Vaughan) the boys proceeded to elect officers for the ensuing year.

At the start it seemed that the night would be spent and nothing accomplished, for a tie was the result of first ballot for president, Wm. Fraser and E. A. Seidewitz being in nomination. A second ballot was taken which resulted in a victory for Fraser who was thus re-elected for another year. For vice-president there was only one nomination, Mr. I. H. Moss, who was accordingly elected. The secretaryship was apparently not wanted for no one would accept the nomination. So the present incumbent, Mr. Bauer, consented to serve another month pending selection of a successor. Pretty much the same thing happened with the nominations for financial secretary, all declining the honor till at last it was narrowed down to F. G. Burger and Robt. Halliday, Jr., the ballot resulting in a majority of 28 for the former. The only nominations for the offices of treasurer and librarian were the previous incumbents who were re-elected, Wm. B. Sands, treasurer, Chas. H. Wagner, librarian.

The treasurer's report was then read and received with enthusiasm, for it showed that the club is in better financial condition than ever before; the financial secretary's report contained one item of interest that was remembered after all the rest was forgotten; it was this: The returns from the last chrysanthemum show were $1,520. The librarian's report was put off till next meeting night, and nothing further demanding action all hands adjourned to Tierney's where a sumptuous repast was served, and where the genial effect of solid and liquid nourishment was soon apparent in the smiles and quips and merry jests that circulated freely. Much to the regret of all, the two pioneers of the trade who were expected could not be out, but while Halliday's kindly smile and Sand's hearty laugh were enjoyed there was a pleasant feeling that the old war horses were still in the field. And then what a host of new faces were there, what jokes were told in undertone, what shouts of laughter encouraged fresh sallies until everybody was talking at once. The tables were decorated with several handsome floral baskets by the city florists, but a vase of superb La France on stems three feet long was the most striking. They were presented by the Annapolis member, Mr. Seidewitz. The guests who were present were Wm. R. Smith, of Botanic Garden, Washington, and Wm. J. Stewart, of Boston.

After a few words of welcome to the guests by the president toasts were given and responded to as follows: "Horticulture—a progressive art demanding patience, intelligence and skill for its successful practice," eloquently replied to by W. R. Smith; "Gardening in the North and in the South," was responded to by Mr. Stewart, who referred to the great services rendered to the art by the Society of American Florists; "Gardening—in what direction may it advance?" was replied to by H. Ekas; "What are the true purposes

of the Gardeners' Club?" by H. Bauer; "What should the gardeners of Baltimore do for the World's Fair?" by Mr. Seidewitz; "Is the chrysanthemum furor likely to cease?" by Mr. Huggins; and "The ladies," by J. Clark. A quartette composed of Messrs. Walters, Fisher, Bauer and Kress rendered acceptable music and at the close the company joined in Auld Lang Syne. The occasion was a most enjoyable one throughout.

An event of the week was the bazar for the benefit of the Hebrew Orphan Asylum. All the booths were original in design and pretty, the floral bower, in the center of the hall, being a very neat piece of rustic work, rendered additionally attractive by numerous donations of flowers and plants from Washington and Baltimore florists. Mrs. Harrison also sent a large lot of flowers from the White House conservatories. Naturally enough the sale of all these flowers had its effect upon trade, for who would buy flowers from an ordinary florist when he could be waited upon by elegantly dressed ladies and have the proud consciousness of doing a charitable thing besides? Whether it was this occurring daily among our non-observers of Lent, or the blizzard, or merely a drop that might occur at any time, certain it is that trade seemed a little off during the latter part of the week.

The scribe was sauntering along Baltimore street the other day with the air of affluent leisure so characteristic of scribes in general, and florist scribes in particular, when he was abruptly halted and held spellbound with emotion by a sight which met his eyes in a store window. A wire window box about three feet long and six inches deep was filled with beautiful green moss; over the edges ran long trailing strands of smilax more exceeding green than the moss, and from the center there sprang in luxuriant beauty a plant which, to judge from the foliage, was a pandanus, but which produced on a stem about a foot long from the center of its crown of leaves a brick red cattleya bloom. On either side of this wonder arose from the moss, plants which were as to foliage one a Dracæna indivisa, the other an aspidistra, but bearing in full glory of expansion on long smooth stems a vermillion stanhopea and a sky blue cattleya streaked with red. To say the observer was dazed and paralyzed temporarily would be to say no more than the truth, and when he had collected himself sufficiently to turn his gaze to surrounding objects his admiring approbation was increased tenfold. Here were roses far surpassing the most ardent imaginings of his heart in size and brilliancy of color. Here were palms bearing gorgeous clusters of parti-colored blossoms and begonias which were an astonishment to behold. In short the whole window was full of colors that would give the color men work for a year to name, and forms of plants and flowers that would take the genius of Linnæus to classify. But when the name of the firm who held these rarities for sale was sought and "Milliners' Supplies" seen in bold letters beneath it, the wonder and amazement gave place to good natured contempt, which in turn gave place to to another feeling, when a few squares farther on a window was passed which contained a collection of equally marvellous flowers worked up into funeral designs. No need to attempt to describe them; they can be seen almost everywhere. "Would it not be better," your correspondent mused, "for those who put 'Please omit flowers' after funeral notices in our daily papers to say 'Please omit wax,' 'Please omit porcelain,' 'Please omit tin'?" But then, after all, there must be those who admire these horrible caricatures, or they would not be manufactured, and, if they admire them, they have a perfect right to gratify their crude taste.

Messrs. Wm. Fraser, Rob't Halliday, Jr., H. Bauer, Jno. Wiedey, C. Hess and Ed. Kress were at work at the bowling alley Friday night and the result of the contest was cause for jubilation, as it showed what could be done without preparation and also demonstrated the fact that though Hess is a little man he is a big bowler and loves the sport enough to tarry past car time and walk all the way out home. MACK.

St. Louis.

Business has been good during the past week and compares very favorably with that of other years at this same time. Large orders have been conspicuous by their absence, for few are the parties, receptions, etc. during the early part of Lent in this town. Flowers of all kinds have been plenty among the retailers, but the wholesale men still cry for more and better roses. The same thing holds good in St. Louis as elsewhere, good stuff sells well and at good prices, but poor stuff is hard to dispose of at any price.

The few days of sunny weather in the early part of the week brought out the roses some. Sunshine has been a scarce article with us for some time, and we were looking forward to a continuation of such profitable weather when, lo, the unlooked for windy and very severe cold snap came, freezing up somebody's unprotected violets and freezing most of the Florists' Club's members to their homes and furnaces on last Thursday afternoon, for they were not at the meeting. Wednesday and Thursday were the cold days, the weather since has been better. Three new members were proposed at said meeting and much interesting discussion was engaged in. Among other topics was that of fumigators. Mr. Fillmore's plan of fumigating is simple and effectual. He holds that "Prevention is better than cure" and so smokes every week, fly or no fly. His fumigator is in shape like a large milk bucket, 17 inches deep and 14 inches wide at the top and somewhat narrower at the lower part; this is without the rim at the bottom which would add about 2 inches to the height. It is made of galvanized iron. Near the bottom and just above the rim two rows of ¼-inch holes, about an inch apart in the row, are punctured and continue around the pail. It has a common handle and also a punctured lid which can be used when the operator wishes to smoke heavily and not have to watch to prevent too rapid combustion. A dry piece of kindling wood suitably prepared and a few dry tobacco stems cover the bottom and then damp ones, previously soaked, fill the remaining space. The idea kept in mind is to smoke light and often. This is by no means a new fumigator, but rather an old one, nevertheless it is good and cheap. They sometimes have legs and then the holes are usually at the bottom. Mr. Fillmore is rejoicing in the possession of a new $150 market wagon. Your correspondent found some cinerarias in blossom at Wm. Schray's with exceptionally large flowers and very fine colors.

Bletia Tankervillæ and Passiflora princeps are now making a good show at Messrs. Michel's, the flowers of the former especially make a fine display. Stephanotis floribunda, a beautiful tall climbing stove shrub, sometimes called Madagascar Jasmine, was also noticed as being full of buds. Calla Little Gem, the recently introduced pigmy calla, was in bloom but is not looked upon as a coming florists' flower by the last named firm. J. W. D.

St. Paul.

The Society of Minnesota Florists held its semi-annual meeting in this city March 9. The program was as follows:

"Indoor Decoration," Walter Kerridge, Minneapolis; "Roses in Pots for Marketing," Jacob Hartman, Minneapolis; "Is our Business a Remunerative One?" August S. Swanson, St. Paul; "Hardy Shrubs that are Easily Forced, and Therefore Useful for the Florist," Prof. Green, state experimental station; "The Red Spider—How to Kill and Prevent his Appearance," F. G. Gould, Excelsior; "How can we Make this Society more Interesting and Useful to the Average Florist?" Gust Malmquist, Minneapolis; "The Best Way for Marketing Plants," R. Wessling, Minneapolis, and August Swanson, St. Paul; "Carpet and Foliage Bedding," John Vasatka, Minneapolis; "Soil Chemistry," Prof. Otto Lugger, state experimental station; "Best Way of Growing Pansies," E. Nagel, Minneapolis; "Old Neglected Plants Worthy of Better Treatment," J. E. Sten, Red Wing; "Hardy Perennial Plants Useful for Cut Flowers," Mrs. Underwood, Lake City.

Surburban Flower Stores.

At your suggestion I reply to "E. W." in January 21st issue of the AMERICAN FLORIST, by submitting plans of store etc., which are not given as models in any sense, but simply to show what we have done in this line that others may profit by the good and bad points here shown.

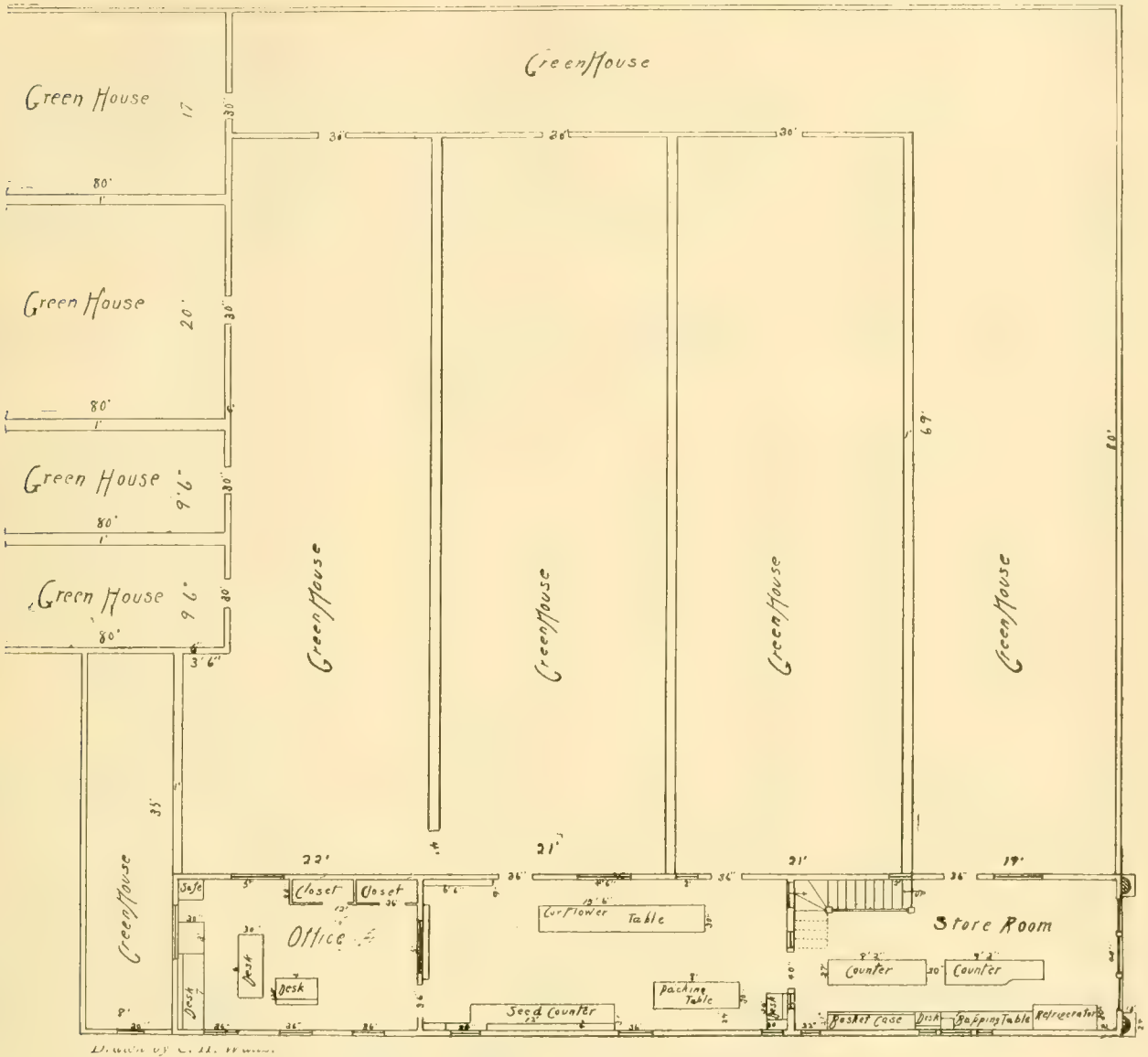
Our location is on a city lot 100 by 200 feet in the residence portion of our city, hence the necessity of utilizing every inch



FRONT OF MR. CHAAPEL'S STORE.

of space. The architecture of the store is in keeping with the surroundings, while the cost of the structure is comparatively low. The exterior is stained old wood brown and olive, with roof stained moss green.

The interior of the front sales-room is rich, yet simple. The wood work is of oak, with high wainscoting; the walls of rough sand finish are painted in oil (a



SUBURBAN FLOWER STORE AND GREENHOUSES.

light blue), the border decorated with a few artistic sprays of wild roses in delicate tints; the ceiling is a sky blue, shading into an autumn sunset with bright colored leaves and sprays of foliage; the expense of this is not so great, though the effect is rich and pleasing to the eye. The packing, or work-room, is beaded hemlock finished in oil.

Not depending on transient trade to any great extent, we depensed with elaborate window space, giving it up to architectural beauty outside, simply decorating the windows with a few palms and blooming plants or using vases of choice flowers, reserving the bulk of the stock of cut flowers for the ample refrigerator, provided with two large sliding doors, which at a moment's notice can be opened wide, giving a complete view of the stock of flowers on hand; when flowers are not wanted for immediate use we plunge their stems in jars of water; zinc jars made of different sizes to nest together we find durable, neat and inexpensive, but we also use the long glass jars and find hyacinth glasses convenient for small bunches of valley, Romans etc.

Referring to the plan, we find the location of the counters, wrapping tables, desks etc., very convenient; sliding boards under counters increase the available space very materially; when very busy, all boxes as soon as packed are carried by boys to the wrapping table in the packing room where they are carefully wrapped, addressed, etc.

All designs and other heavy work are arranged in the packing room thus avoiding all annoyance and confusion in the front store. A cool room in the cellar provides ample storage for designs, flowers, etc., and a stock of lumber in different widths is always ready for making up into boxes of any required size.

Having a catalogue business we find it a convenience to have the office, with telephone, etc., some distance from the sales-room; of course where only a local trade is done, this is not necessary or convenient. Electric bells and speaking tubes connecting the store, office and packing house (in rear of greenhouses), are indispensable for quick, easy and economical work, in the rush of the busy seasons, when every minute counts.

That these few descriptive notes hurriedly written may be of use to my fellow florists, is the sincere wish of

Willliamsport, Pa. HARRY CHAAPEL.

[The packing room is at the end of the greenhouses at the left—not shown in plan.]

YUBA CITY, CAL.—At a meeting held here February 17 the "California World's Fair Association of the Upper Sacramento Valley", embracing the counties of Shasta, Tehama, Glenn, Butte, Colusa, Yuba and Sutter, was organized with temporary officers as follows: Gen. N. P. Chipman, president; Judge Chas. F. Lott, B. F. Walton and John Boggs, vice-presidents; J. J. Pratt, secretary. The object of the association is to see that Northern California is properly represented in the display at the great exposition.

MINNEAPOLIS.—The Minneapolis Florist Club held its monthly meeting at the West Hotel Saturday evening, the 12th. The meeting was well attended. A good part of the time was taken up in the consideration of the advisability of holding another chrysanthemum exhibition next fall. It was decided to hold one and a committee of five was appointed to make out a premium list and have it ready by the next meeting for the approval of the club, which will be April 9.

MR. A. INGRAM, representing Hugh Low & Co. of London, England, is now making a trip through the U.S. and Canada. His address will be care of the Astor House, New York, up to April 23, when he will return to England.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

CARNATION GRACE BATTLES.—This new pink carnation is very highly spoken of by those who have seen it growing and blooming, some of the most conservative men in the trade predicting that it will be *the* pink carnation of the future. Certainly anything that Mr. Edwin Lonsdale considers good enough to send out must possess very decided merit. We understand it will be introduced to commerce next year. The carnation is named after the little daughter of Mr. H. H. Battles, whose articles upon the arrangement of flowers and the color question have made his name familiar to the readers of the FLORIST.

A BUNCH of violet blooms have been received from Mr. W. A. Hammond, Richmond, Va., of the variety "May Handy," a sport from Swanley White that originated with him. The blooms are of good size, resembling Marie Louise in every respect except color, which is a very much lighter shade. Mr. Hammond writes that it is a good bloomer and strong grower.

WE HAVE received from Messrs. D. R. Woods & Co., New Brighton, Pa., a specimen plant of their new alternanthera, A. rosea nana. The specimen sent was certainly exceedingly well colored for this season of the year, and it gives promise of being very useful in carpet bedding.

PROVIDENCE, R. I.—Johnston Bros. have removed to larger and more pleasant quarters at 186 Westminster street, corner of Union.

LITTLE ROCK, ARK.—Mr. Geo. Vestal, son of J. W. Vestal, was married February 4 to Miss Lulu Hays.

CORRY, PA.—William Rhodes, the city florist, died February 25, aged 57 years, after a long illness.

MILWAUKEE, WIS.—G. Volk will remove from Milwaukee street to 222 Wisconsin street April 1.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By an A 1 all round florist and gardener, as foreman, age 33, single; wages $75 per month; no fossilized places need reply. ALPHA, care American Florist.

SITUATION WANTED—By a florist and gardener, age 29, married, no children; first class man, best of references; east preferred. Address HENRY EICHHOLZ, Westerly, R. I.

SITUATION WANTED—By a young man 20 years old, has been in the business 7 years, can make wire designs and do cut flower work. Address H F S, 1027 E Market St., Louisville, Ky.

SITUATION WANTED—By a first class florist, German, in a private or commercial place, understands handling of greenhouse stock thoroughly. References. Address GEORGE KRANZ, care Adamhouse, Coulterville, Ill.

SITUATION WANTED—By a first class florist, 25 years of age; excellent knowledge in growing roses, carnations, cut flowers, propagating all kinds of forcing stuff; well up in design work and decorations; west and south preferred. W E, Salt Lake City, Utah.

SITUATION WANTED—By a thorough practical florist, competent to take charge of a place where roses, carnations, violets, smilax and bulbous stuff is grown; had 17 years experience in Europe and America; aged 32, single; please state wages. Address R, care American Florist.

SITUATION WANTED—In private or commercial greenhouse establishment, by young man, 27, single, English, thoroughly understands the florist business in all branches, orchids, ferns and palms specialty; can furnish excellent references; 15 years in business; nothing but good place wanted. L J, care American Florist.

SITUATION WANTED—By a practical gardener and florist, single, middle aged of good habits; who devoted all his lifetime to cultivate the loving nature of plants, very successful rose grower, capable to take charge and interest of large establishment. Any person wishing such a man the greatest satisfaction will be assured; satisfactory references. Address PRACTICAL FLORIST, Niles Center, Ill.

WANTED—Trade lists and retail catalogues of nurserymen, seedsmen, etc. L B SCHWARZ, 35 Smyth Block, Manchester, N. H.

WANTED—Offers for a variegated Century plant, 3 feet high, 24 leaves 15 years old. Address MRS. E. HARNESS box 58, Atlanta Ill.

WANTED—Florist for all kinds of greenhouse work; married man preferred; wages $40 per month. W. W. GREEN & SON, Watertown, N Y.

WANTED TO RENT—With privilege of purchase, a greenhouse establishment, near Boston. Southern roads prefered. Address LOTHROP WIGHT, Framingham, Mass.

WANTED—Young man for seed and plant trade, must have good common school education and write well, steady place. VAUGHAN'S SEED STORE, Chicago.

WANTED—Young man, single, to work in flower garden, must be sober, honest and competent, to sell flowers and plants; state wages wanted. Address C. F. WEEKS, Hot Springs, Ark.

WANTED—Competent man to take charge of cut flower and plant departments in commercial greenhouses; must be a good rose grower; state wages. THOS. T. HOLTON, Morristown, N J.

WANTED—A young man as salesman for a Floral department in a large dry goods store. Hours 8 to 6 and no Sunday work. Must have had experience in design work and decorating. Apply by letter giving particulars and reference to. BROWN, THOMSON & CO., Hartford, Ct.

WANTED—An active man to take the lead; must be quick and observing; size of place 30,000 square feet of glass for roses, carnations, palms and general florist stock. Only competent parties must apply; married man preferred. When applying give references and state wages expected. Address JOHN RECK, Bridgeport, Conn.

FOR SALE—A complete file of the AMERICAN FLORIST in good condition, for best cash offer before April 1. MRS. M. F STEWART, Peabody, Kan.

FOR SALE—At a bargain, a florist's business in a thriving city near St Paul Proof profits for 1891 over $1,300. For particulars address SELLER, care American Florist.

FOR SALE—Part or entire interest in greenhouses, neat cottage and ample grounds; well stocked and in good condition. In suburbs of the city of Danville, Virginia. Address T. L. SYDNOR, Danville, Va.

FOR SALE—Three greenhouses and stock on two lots with good house in a town of 10 000 and two adjoining towns of 4,000. The only establishment in either place capable of business increase. Address R. LAMBERT box 269, Windsor, Ont.

FOR SALE—At a great bargain, a small florist's place; 6 years established; good dwelling, two greenhouses, large supply of flower pots, some plants mailing boxes, etc.; city of 10 000. Address MRS. TURNER, 95 Campbell St., Delaware, O.

FOR SALE OR RENT.

Greenhouse property on East 14th St very reasonable terms. 5 000 square feet of glass, mostly double thick. Houses well stocked with plants for spring sales. Splendid cut flower trade all the year. One house early lettuce radishes etc., nicely under way for spring trade. Steam and water heating. Five acres of land mostly set to grapes, berries, apples, etc., in good bearing condition. Dwelling house barn and other outbuildings. Fifteen minutes from postoffice. Best shipping point and best location in the state. No other greenhouse within 45 miles. A good opportunity to make money. Everything goes at a bargain. Possession any time.

W. J. BIGGAR, FREMONT, NEB.

BOILER FOR SALE.

In good condition, 4½ ft. long, 4 ft. wide, 17 3-in. flues. Will heat 1,500 feet of pipe

WISCONSIN FLOWER EXCHANGE,
131 Mason Street, MILWAUKEE, WIS.

MIXED LOTUS SEEDS.

Nelumbium Roseum, crimson pink, Nelumbium Kermesinum, lighter pink. Full cultural directions sent. 25 cts. per doz; $1.50 per 100; $10 per 1000.

PHANTOM SPRING AQUATIC CO., Huntsville, Ala.

FOR SALE.

Nine Green houses and seven hotbed frames, 12 000 square feet glass with circa two acres of land and stock for sale very cheap, and on easy terms.

The houses are in splendid conditions situated in one of New England's best localities, with a large and extra good home market and established trade.

The stock represent a wholesale value of over $5,000, in good and saleable condition for spring trade. New steam boiler with 3 000 feet of pipe, cost about $1,250; 20,000 pots all sizes; tools and implements.

The price on property, land, houses with stock, heating apparatus etc. is $6,500, largest part of which can stay in the property. It is a splendid opportunity for one wishing to buy an established business, as the property is in first class condition, ready for the coming season. For further particulars write to

H. C. HENKING, Springfield, Mass.

Cycas Leaves

fresh cut, fine fronds, at $1.00 each, net cash. Natural, prepared to retain their fresh appearance, in four sizes, at 25, 40, 50 and 60 cts. each; quite a reduction if bought by the original package of ten.

Satin Bows

for funeral or cemetery pieces, in plain or embossed style (flower pattern) with gold or silver inscription "At Rest", edged with gold or silver fringe to match, in assorted patterns and three sizes, at 45, 60, 75 cts. and $1 each.

Capes and Immortelles

fresh crop Cape Flowers, prime white, in two grades, AA at $1.10, A at 90 cts. the lb., or $1 and 80 cts. net cash.

French Immortelles at $3 00 the dozen for natural yellow; $3.60 for white and other colors, less ten per cent. for cash.

Florists' Supplies

All Requisites for store or greenhouse, compare our Trade List of last Fall; also Special list for **FLOWER SEED and SPRING BULBS**

Catalogue free to the trade on application with business card.

Address LETTERS TO STATION E.

AUGUST RÖLKER & SONS,
136-138 W. 24th Street,
NEW YORK.

For Spring Potting.

The best time to pot off small Palms and Foliage Plants is NOW, and they will then be ready to fill houses with for summer, after bedding plants are cleared. Cheap plants as follows:

	Per 100
Aralia Sieboldi, 2-inch pots	$10.00
Pandanus utilis, 2-inch pots	10.00
Areca lutescens, 2-inch pots	10.00
Dracæna terminalis, 2-inch pots	8.00
Latania borbonica, seed boxes	4.00
Cocos Weddelliana, seed boxes	8.00
Cocos plumosa, seed boxes	8.00
Asparagus plumosus, 3½-inch pots	40.00
Begonias, tuberous, single, finest flowers, distinct colors	10.00
Begonias, tuberous, double, very fine.	20.00

(Begonias are started, but can be mailed for next three weeks)

JOHN H. LEY,
Tropical Nursery, Anacostia. **WASHINGTON, D. C.**

H. P. ROSES, 1 yr. per 100	$10 00
H. P. ROSES, 2 yr. strong, per 100	15 00
CARNATIONS, 2 in. pots, per 100	3 00
GERANIUMS Best varieties twice potted, 100.	4 00

McCREA & COLE, Battle Creek, Mich.

LYCOPODIUM.

First-class Bouquet Green, at $3 per 100 lbs.

—CASH WITH ORDER.—

BRUNO PECHSTEIN,
MEDFORD, WIS.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price-list write for same
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

JOHN C. BRUCKNER,
WHOLESALE DEALER IN
CUT FLOWERS,
AND FLORISTS' SUPPLIES,
89 Wabash Ave., CHICAGO.
Store Open: Nights 9 P. M.; Sundays 2 P. M.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

Wholesale Florists
LA ROCHE & STAHL
N. E. CORNER
13th and Chestnut Sts.,
PHILADELPHIA.

ELLISON & KUEHN,
WHOLESALE
FLORISTS,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S. PENNOCK.)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
A 1 IVY LEAVES.
BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.

Wholesale Markets.

Cut Flowers.

BOSTON, March 15.

Roses, Bon Silene, Gontier, Niphetos	2 00@ 4.00
" Perle, Sunset, Wootton	4 00@ 6.00
" Mermets, Brides, Waban	6 00@ 8 00
" Hybrids	25 00
" Jacq	16 00@25.00
Carnations	1.00@ 2 00
Mignonette	2 00
Harrisii, Callas, Candidums	4 00@ 8.00
Valley, Tulips	2 00@ 4.00
Daffodils, Single Narcissus	3 00@ 4.00
Violets	35@ .75
Pansies	.25
Marguerites, Myosotis	1.00
Smilax	16 00
Adiantums	1.00@ 1.50
Heath, per bunch	.50

NEW YORK, March 15.

Roses, Gontier, Niphetos, Perle, Sunset	2 00@ 3 00
" Mermet, Bride	3 00@ 6 00
" Cusins, Watteviles	3 00@ 6 00
" Hoste, La France	3 00@ 6 00
" Jacqs	5.00@15 00
" Beauties	10.00@50 00
" Luizet, Laing, Magna	15 00@50 00
" Baroness, Mabel Morrison	50.00
Carnations, long	1.00@ 1.50
" short	50@ .75
Valley, Romans	2.00@ 3 00
Tulips, Narcissus	2.00@ 4.00
Violets	.25@ .75
Mignonette	2.00@ 4 00
Longiflorum	4.00@ 8 00
Callas	6 00@ 8 00
Adiantum	1 00@ 1 50
Asparagus tenuissimus	35.00
" plumosa	50.00
Smilax	12 00@25 00
Lilac, per bunch	.75@ 1 00

PHILADELPHIA, March 15

Roses, Brunners	50 00@60 00
" Laings, Luizets	30 00
" Beauties	30 00@35 00
" La France, Albany	8.00@10.00
" Mermets, Brides	6.00@ 8 00
" Cusins, Watteville	6.00
" Perles, Niphetos	4 00@ 5.00
" Gontiers	4.00
Valley	3 00@ 4.00
Carnations	1.50@ 2.25
Violets	.50@ .75
Daffodils	4.00@ 5 00
Mignonette	1 00@ 3.00
Tulips	4.00@ 5 00
Romans	1 50@ 3.00
Harrisii	6.00@10.00
Smilax	20 00
Adiantums	1.00@ 1 50

CHICAGO, March 15.

Roses, Am. Beauties	15.00
" Mermets, La France	5.00
" Albany, Bride, Waban	6 00
" Bennetts, Dukes	5 00
" Perle, Niphetos	4 00
" Gontiers	3 00
" Bon Silenes	2.00
Carnations, short	.75
" long	1 50
" " fancy	
Romans, Narcissus, Valley	3 00
Callas, Harrisii	12 50
Violets	1 00
Smilax	15.00
Tulips	3 00
Daffodils	4.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

FLORAL DESIGNS,
The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

EDWARD C. HORAN,
WHOLESALE FLORIST,
34 W. 29TH ST., NEW YORK.
Successful Sh'pping Our Specialty.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

GEO. MULLEN,
WHOLESALE FLORIST,
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order.



THE INVISIBLE
Bouquet Pin
is used and endorsed by well known florists from Maine to Mexico.
(It sells with the Bouquet)
HANDY and USEFUL
Approved by the Society of American Florists.
A PRACTICAL Bouquet Pin which SAVES TIME both to the florist and his patrons.
75 Cents a GROSS.
GEO. B. WILLCOX, Bay City, Mich.
Send for my PRIMER, free.
Chicago Agent:
E. H. HUNT, 79 LAKE STREET.

CHRYSANTHEMUMS.
Choice collection of Japanese, Chinese and anemone exhibition varieties, $1.00.
GLOXINIAS.
Unrivalled strain of hybrid, erect flowering varieties, $1.00 per dozen.
WM. TRICKER, Dongan Hills, (S. I.) N. Y.

YOUNG BROS.,
20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

Appropriation.

"Who steals my purse steals trash, but he who steals" etc. But what shall we say of those who steal advertising phrases, cuts, style and arrangement of catalogue matter?

The phrase "Everything for the Garden" has been so long the trade mark as it were of a well known New York house that it seems strange to find a new firm adopting it. A western firm has an advertising cut this year of a girl working in the garden, but without copyright protection. After running it for three or four months another firm sees fit to make almost an exact copy, the original having been made from a photo taken for the purpose. Comment on such methods seems unnecessary. Has the executive committee of the Seed Trade Association provided for an essay and discussion of such matters for their June meeting?

Government Seeds and Matrimony.

WASHINGTON, March 6.—Secretary Rusk is thinking seriously of establishing a matrimonial bureau in connection with the Agricultural Department. The idea was suggested by a letter he recently received from a man out west who experimented with some of the cucumber seed sent him by the department at the instance of his representative in Congress. It appears the farmer planted the cucumber seed and his wife afterward died from eating some of the cucumbers. The farmer in his letter to Secretary Rusk said:

Your blamed cucumbers robbed me of my wife, so, instead of sending me cucumber seeds this spring, send me another wife. I hear there are a number of likely women in your department.

In reply Secretary Rusk said he had no appropriation from which he could draw money to send a wife to the widower, but suggested that the latter come to Washington and pick out one for himself. The secretary informed his correspondent that he has in the department some beautiful maidens, many sprightly widows and several well-seasoned old maids.—*Chicago Herald.*

MR. J. C. ROBINSON, of Waterloo, will add the elevator business to that of seed growing.

LEAMING CORN is said to be preferred to the large southern white sorts for ensilage and fodder purposes among the dairy farmers of Central New York, and the demand for Leaming seed is unprecedented.

BOSTON.—F. T. Emerson, the corn and vine seed man of Omaha, Neb., is in Boston on business. T. W. Emerson & Co. are preparing to continue business at the old location, having apparently effected a satisfactory settlement with their creditors.

LILIUM HARRISII.
Original and largest growers of this important bulb
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.
Mention American Florist.

WM. ELLIOTT & SONS,
54 & 56 Dey St., New York.
Seedsmen and Horticultural Auctioneers.
CATALOGUES MAILED ON APPLICATION.
Our Spring Auction Sales Commence on or about March 1.

ROOTED CUTTINGS.
CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.
A. N. PIERSON, Cromwell, Conn.

COLEUS
Are all ordered to April 1. Cause: A 1 Cuttings and advertising. Will take orders to fill after above date.

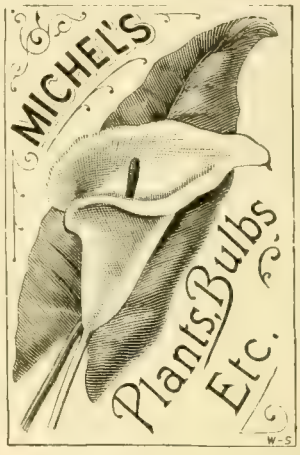
Mums and Fuchsias.
I have a nice batch in benches, rooted and ready to ship.
SEND FOR PRICE LIST.
S. B. FIELD, Roselle, N. J.

ROOTED CUTTINGS.
ALTERNANTHERA P. Major and Aurea Nana, 50 cts. per 100.
AGERATUM White Cap and Cope's Pet, 50 cts. per 100, by mail prepaid.
OTHER STOCK LATER.
Don't order more PETUNIAS and VERBENAS until quoted here.
S. O. STREBY,
Lock Box 77. UPPER SANDUSKY, OHIO.
Mention American Florist.

THE NEW VIOLET
R. GARRETT,
Is a sport from Count Brazza, of a light blue color, very large and very double; a strong, healthy grower.
PLANTS READY APRIL 1st.
Parties in and west of Chicago will please leave their orders with J. C. VAUGHAN, box 688, Chicago.
Price, $12.00 per 100; $100 per 1000; $4.00 per dozen.
All orders must be accompanied by cash.
J. COOK,
318 N. Charles Street. BALTIMORE, MD.

CLEMATIS.
Strong heavy plants.....doz. $4.00
Lighter, equal to imported..... " 3.00
ROSES—H. P. 2 year, own roots, choice kinds.....per 100 $10.00
DAHLIAS—50 vars., whole roots, proved sorts.....per 100 $8.00
F. A. BALLER, Bloomington, Ill.
Mention American Florist.

—Prices Greatly Reduced.—
CAPE COD PINK POND LILY.
For price list, Plants and Cut Flowers, address the original cultivators,
CHIPMAN BROS.,
SANDWICH, (Cape Cod), MASS.



Write for wholesale list.
MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

ORCHIDS.
The Finest Stock in the World.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Orchids. Orchids.
Surplus stock, in 10 showily flowered, easily grown varieties. Strong, clean.
100 PLANTS FOR $25.
BRACKENRIDGE & CO.,
Established 1854. GOVANSTOWN, Md.
Mention American Florist.

Orchids.
Established and Fresh Imported—Specially Cattleyas; very useful for cut flowers, at greatly reduced prices.
Best quality of Orchid Peat. Write for price list.
FREDERICK MAU,
P. O. Box 322. SOUTH ORANGE, N. J.

COLEUS. COLEUS. COLEUS.
ROOTED CUTTINGS.
By the.....Hundred
By the.....Thousand
By the.....Ten Thousand
Write me for prices.
J. E. FELTHOUSEN,
370 Van Vranken Ave., Schenectady, N. Y.

Tobacco Stems.
I make a Specialty of packing stems for flower growers.
Prices and references sent on application.
H. A. STOOTHOFF,
417 E. 76th Street. NEW YORK CITY.

MONEY IN GROWING MUSHROOMS

More money in them for less outlay than any other crop. Any one with a cellar or stable can raise them. Our Primer & Price-list tells the whole story. Free. Send for it. A brick of our celebrated English Mushroom Spawn mailed, post-paid, for 25c. JOHN GARDINER & Co., Seed Growers, Importers and Dealers, Philadelphia, Pa.



☞Gardiner's Seeds:—New Catalogue for 1892 now ready. Free. Send for it.

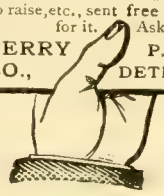
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With a Hoe, SOW FERRY'S SEEDS and nature will do the rest.

Seeds largely determine the harvest—always plant the best—FERRY'S.

A book full of information about Gardens—how and what to raise, etc., sent free to all who ask for it. Ask to-day.

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SEEDS! PLANTS! BULBS!

Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.

Catalogue on application.

WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

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GROWER AND EXPORTER OF

BERMUDA BULBS

Lilium Harrisii, Lilium Longiflorum,
Freesia Refracta Alba, Calla Lily,
Amaryllis Johnsonii, French Cannas, best vars.
Amaryllis Regia, White Roman Hyacinths.

CYCAS PALM LEAVES A SPECIALTY.

SHELLY BAY, BERMUDA.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN. CONN.

Mention American Florist.

KAE SHEAN CO.,

Growers of CHINESE SACRED LILY,

HONG KONG.

Goods can be obtained at the following houses:
John L. Childs.....Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R. Pierson.....Tarrytown, N. Y.

Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

DUTCH BULBS.

JOHN BARTH BOS,
OVERVEEN, near Haarlem, HOLLAND.
— ESTABLISHED 1868. —

Large grower of Hyacinths, Tulips, Narcissus, Crocus, Lilies, etc.

Before ordering bulbs, write me for a catalogue.

For next SIX WEEKS, I offer

100,000 ATAMASCO LILIES.

Selected, 100 for $7 00; 500 for $4.50; 250 for $3.25.

MRS. J. S. R. THOMSON, Fort Mills, York Co., S. C.

New Double White Daisy Snow Crest.



—)o(—

A most distinct variety and an improvement on all existing sorts. Its habit of growth and size of flowers, in comparison with older varieties, is gigantic. The flowers, which are borne on stout, stiff stems from 6 to 10 inches long, are of the purest white and full to the center. When fully developed they rise to a conical or sugar-loaf form, and well grown specimens will cover a silver dollar.

It makes an admirable hardy garden plant or may be forced for cut flowers under the same treatment as violets. $2 per doz.; $15 per 100.

Dreer's Quarterly Wholesale List now ready; mailed free to the trade on receipt of business card.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

40 ACRES OF FRENCH BULBS IN CULTIVATION.

The most extensive cultivators in the South of France of

EARLY WHITE ROMAN HYACINTHS,

Lilium Candidum, Paper White Narcissus, Grandiflora, Double Roman, Incomparabilis, Aurantius double, Von Sion, Trumpet Major, Freesias, Allium, Anemones fulgens, A. Rosette, very early, and Cardinal's Hat, Amaryllis Vittata, Etc., Etc.

BENJAMIN RIMBAUD, Bulb Grower,

KNIGHT OF THE AGRICULTURAL MERIT, TOULON, VAR, FRANCE.

WILL SEND on demand THE LIST OF HIS PRICES for the aforesaid Bulbs, to be delivered free Toulon Railway Station, and also free from packing and carriage expenses on board TO NEW YORK.

IMPORT PRICES NOW READY.

HARRISII, ROMANS, FREESIAS, VON SIONS, VALLEYS, ETC.

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO.

Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.
ESTABLISHED 1878 SAN FRANCISCO, CAL.

ROMAN HYACINTHS, PAPER WHITES,

Lilium Harrisii, Berlin Pips Lily Valley, Tuberoses, Azalea Indica, etc.

PRICES QUOTED and ORDERS BOOKED FOR SUMMER AND FALL DELIVERY.

C. H. JOOSTEN, Importer,
3 COENTIES SLIP, NEW YORK.

Mention American Florist.

V. LEMOINE & SONS,

NANCY, FRANCE.

Catalogue of Novelties, including Begonias Pelargoniums, Chrysanthemums, Gladiolus Montbretias, etc., etc., can be had on application to their agents,

C. C. ABEL & CO., New York.

OUR TRADE LIST IS NOW READY.

SURPLUS AS FOLLOWS: Climbing and Tea Roses, Clematis Jackmani and other large flowering sorts. Pyramidal Arbor-vitæ 2 to 5 feet. Shrubs 2 to 4 feet large variety, strong clumps. 15,000 Houghton gooseberry 2 and 3 years.

SELOVER & ATWOOD,
Geneva, N. Y.

DO YOU KNOW THE SNOWFLAKE DAISY makes one of the most attractive and salable potplants, and that we offer a fine stock of strong plants all in bud, ready to come right on for Easter, at $3.00 per 100.

3,000 Variegated Vincas, very strong, 3 inch. $3.50 per 100.

3,000 Golden Marguerite, Dwarf, large flowering, flats, $2 50; rooted cuttings, $1.50 per 100. 1000 Choice Mixed Geraniums, rooted, $1.50 per 100 post free.

10,000 Rooted Cuttings of Coleus, Heliotrope, Gem Feverfew, Fuchsias, (Hill, Phenomenal, and other fine sorts mixed.) Musk, Lobelia, Othonna and other vase plants, $1.00 per 100, post free.

1,000 Phlox, choicest strains, all colors mixed, Nana compacta and Star of Quedlinburg, flats, $2.00 per 100. Fresh Smilax Seed ½ oz. 20 cts 1 oz. 35 cts. Finest mixed double fringed Dianthus, liberal trade packet, 25 cents. Eulalia Zebrina, and Japonica, large field grown, will divide, 1st size, $12.00; 2nd size, $8.00 per 100. Bouvardias, Chrysanthemums, Violets, later 5,000 Grape Vines, standard sorts, very cheap. Satisfaction guaranteed or money refunded.

Very respectfully,

J. C. GIBSON, WOODBURY, N. J.

Mention American Florist.

PANSIES AND OTHER STOCK

For Fall Planting. Per 100 Per 1000

SMILAX, 2½ inch pots $1.50 $12.00
Rooted Cuttings CHRYSANTHS, ready March 1st. 2 00 15.00
AMPELOPSIS VEITCHII, 3-in. pots, strong, at 5.00

Address J. G. Burrow,
FISHKILL, N. Y.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER
QUEDLINBURG, GERMANY.

Toronto.

The two potters in this city, Messrs. Davis & Son and Mr. Geo. Plant, are now turning out standard pots in quantity. Mr. Plant brought down some samples to the last meeting which were said to be by all who saw them as good as the best. We have always been used to the English style of pot here and no doubt many will still cling to them for old time's sake. But why can not the standard pot be made a little larger at the bottom? Surely the root space might be as large as possible compatible with convenience in potting.

The secretary of the association hopes to get the prize list for the chrysanthemum show in November out as soon as they can be printed after the next regular meeting on the 15th inst. High time it was in the hands of intending exhibitors now.

The retail men are having their innings now. Wholesalers have had to come off the perch and prices are away down. Trade very dull is the general report this week.

Mr. Houston, gardener at the Central Prison, has a fine show of orchids in bloom just now. Cattleya citrina, many C. Trianæ, Lælia anceps, cypripediums, odontoglossums and dendrobiums in variety, make the house quite gorgeous. The fine lot of stove and greenhouse plants are all in the best of health and Mr. H. expects to capture most of the "hrsts" at the July show. E.

ROSES.

A Chance to Triple your Money.

NOW READY. (Safe Arrival Guaranteed.)

50,000 ROSES, from 2-in. pots, $3 per 100; $30 per 1000.

Plant in 3 inch pots, and they will bring you from 10c to 15c each readily.

50,000 ROSES, from 3-in. pots, $5 per 100; $50 per 1000.

Plant in 4-inch pots and they sell readily from 20c to 25c each.

N. B.—Our stock is not forced nor are the plants long and drawn, but have an abundance of leaves and roots.

Varieties you can select from by the 100 or 1000, provided one or the other sorts is not sold:

Agrippina,
Archduke Charles,
Aline Sisley,
Archduchess M. Immaculata
Bon Silene,
Chas. Rovolli,
Comt. de Labarthe (D. de Brabrant),
Catherine Mermet,
Coquette de Lyon,
Hermosa,
Etoile de Lyon,
Gloire de Dijon,
Jules Finger,
La France,
Lady Washington,
Louis Phillipe,
Marie Guillot,
Malmaison,
Marie Van Houtte,
Miss Ethel Brownlow,
Mme. Caroline Kuster,
Marechal Niel,
Mme. de Watteville,
Mme. Pauline Labonte,
Mme. Brett,
Mme. Abel Carriere (M. Noisette),
Mme. Jos. Schwartz,
Mme Laur Marring, (pure new Bengal),
Ophelia,
Perle des Jardins,
Queens Scarlet,
Rubens,
Suzanne Blanchet,
Sombreuil,
The Bride,
Reine Olga,
Pink Daily,
Nic de Wautier,
Waban.

We also have **50,000 HYBRID ROSES**, strong, 2-inch pots in 25 best leading sorts, $5 per 100; $50 per 1000.

20,000 4-INCH POT ROSES, $10 to $20 per 100 according to variety and quality.

POT ROSES, in bud and bloom, $20 to $25 per 100.

Wholesale and Retail Catalogue upon application. Lists cheerfully priced and samples mailed if desired

FOR EVERYTHING IN THE FLORIST LINE.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

CARNATIONS.

Send for trade list of ROOTED CUTTINGS.

J. J STYER, CONCORDVILLE, PA

SENSATIONAL NEW ROSE OF 1892.

"This is the most beautiful pink rose known."—JOHN N. MAY, M. A. HUNT.

BRIDESMAID nee THE HUGH.

After consulting a number of the leading rose growers and retailers, I have decided to change the name of THE HUGH as above, and henceforth it will be known only as BRIDESMAID.

"The consort of The Bride."—*Littlejohn.*

Perfect in growth and behavior.

From 3-inch pots.				From 4-inch pots.	
12 plants	$ 9.00	250 plants	$ 90.00	1 plant	$ 1 50
50 plants	25 00	500 plants	150.00	12 plants	15 00
100 plants	40 00	1000 plants	240.00	25 plants	25 00
				50 plants	40 00
				100 plants	75 00

☞ Circulars on application.

FRANK L. MOORE, Chatham, New Jersey.

ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting, including two New Grand Bedding varieties:

FRANCES B. HAYES, HYBRID BOURBON. **AND OAKMONT,** HYBRID REMONTANT.

Extra fine Selected Stock for the Trade.

JOHN N. MAY, Summit, N. J.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

ROSES.

From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and Duchess of Albany, at $5.00 per 100; Meteor, at $6.00 per 100; American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

CHRYSANTHEMUMS,
leading varieties, 2½-inch pots, $5 per 100.

We are headquarters for the Meteor and Climbing Perle des Jardins.
ALL FINE HEALTHY STOCK.

JOHN HENDERSON CO.,
Flushing, N. Y.
Mention American Florist.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS. CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

ROSA CANINA STOCKS

SCHULTHEIS BROS.,
STEINFURTH, NAUHEIM, HESSE, GER.

1000 extra choice, 30s, 1 year seedlings.
10,000 plants, extra choice, 250s, 1 year seedlings.
1000 plants, 1st choice, straw thick, 12s, 1 yr. seedlings.
10,000 plants, 1st choice, straw thick, 15s, 1 yr. "
Cash with order. Send via Bremen Loyds.

SPECIAL OFFER. Per 100

Var. Rose Geraniums, 2½ inch	$ 5 00
Begonia Manicata aurea, 2½-inch	10 00
Begonia Rex, assorted	4 00
Bouvardia Elegans and Davisonii, root cuttings from flats	1.00

JOS. E. BONSALL & SON, Salem, O.

MANETTI

ROSE STOCKS.

A fine lot for sale cheap! $2.00 per 100; $15.00 per 1000; 5,000 for $60.00.

N. B.—Send for our Special List of young stock for transplanting.

W. S. LITTLE & CO.,
Rochester, N. Y.
Mention American Florist.

JACK ROSES.

5,000 1 year old, 2½ to 3 feet high, well branched, $15.00 per hundred.

1,500 2 year old, 3 to 4 feet high, $18.00 per hundred.

JORDAN FLORAL CO.,
706 Olive St., ST. LOUIS, MO.

ROSES.

Hybrid Perpetual Yellow and Rugoso

Strong Plants.

☞ WRITE FOR PRICES.

GEO. MOULSON & SON.,
UNION NURSERIES.
ROCHESTER, N. Y.

ROSES.

The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100, Waban, $6.00; Duchess of Albany, and Meteor, $5.00 per 100; La France, Bride, Sunset $5.00 per 100; Perle, Mermet, $4.50; Bennett, $8.00 per 100.

Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

C. A. SMITH FLORAL CO.,
77 South Seventh St. Minneapolis, Minn.

CARNATIONS

Rooted Cuttings, 50,000 now ready of the following varieties:

Silver Spray, Hinze's White, Mrs. Fisher, Jeannette, Portia, Grace Wilder, Fred Creighton, Anna Webb, and Century,

$1.00 per 100; $10.00 per 1000.

Hector and Florence, $2.50 per 100, American Flag, $2.00 per 100.

Fuchsias, finest varieties	$ 1.50 per 100
Heliotrope	1.00 "
Ageratum dwarf white and blue	1.00 "
Petunias dbl. white and variegated	2.00 "
Bouvardia double pink and white, stock plants	10.00 "
Pansies from seed bed, extra fine	5.00 per 1000
Daisies	3.00 "
2000 field grown Jack Roses	10.00 per 100

Cash with order. 10 cts. per 100 extra when ordered shipped by mail.

JAMES HORAN, Florist,
BRIDGEPORT, CONN.

CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named **"DORINDA,"** a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

R. T. LOMBARD,
WAYLAND, MASS.

AURORA.

Winner of the Ladenburg Cup for best pink

CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

Send for general price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

PURITAN.

NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:

Rooted Cuttings.....$8 per 100; $70 per 1000
From 2¼-inch pots, $12 per 100; $100 per 1000.

Send for catalogue with full description of this and other varieties.

WOOD BROTHERS, Fishkill, N. Y.

50,000
ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.

Also an unlimited quantity of pips of the above varieties. Send for price list.

JOSEPH RENARD, Unionville, Chester Co., Pa.

ROSA WICHURAIANA and CLEMATIS PANICULATA

are two of our Specialties. Very fine stock. See our **WHOLESALE TRADE LIST** now ready. If you have been missed, drop us a line.

THE READING NURSERY,
JACOB W. MANNING, Prop.,
Established in 1854. **READING, MASS**

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ROOTED CUTTINGS.

For March trade I have prepared large quantities of Carnations, Lizzie McGowan, Mrs. Fisher, L. L. Lamborn, Hector, Grace Wilder, Christmas, Anna Webb and others.

Also a very choice assortment of **COLEUS.** LANCASTER BEAUTY is the finest novelty in Verbenas ever offered; entirely distinct from all others. It sells at sight and no florist can afford not getting it. Perfectly clean well rooted cuttings, $2.00 per 100. I have complete control of the stock, which is limited.

SMILAX AND PANSY season is soon here and I am headquarters for choice stock at low prices.

Send for complete list. Satisfaction assured.

L. B. 338. **ALBERT M. HERR, LANCASTER, PA.**

CARNATIONS.

Finest NOVELTIES of the year, and best Commercial varieties.

COLEUS. Best assortment in the country. All the good Bedders.

GERANIUMS are all sold for this month. Will have some later.

New Fancy Coleus **"JOHN RALPH"** is a gem. Pot plants, six for $1.00.

GET MY LIST BEFORE YOU PURCHASE.

ALEX. McBRIDE, Alplaus, N. Y.

—— ROOTED CUTTINGS ONLY. ——

ROOTED CARNATION CUTTINGS.

NOW READY. UNSURPASSED IN QUALITY.

Golden Gate, grandest new pure yellow; J. R. Freeman, fragrant crimson scarlet; Constancy, glowing bright scarlet; $3 00 per 100; $25.00 per 1000. We have a fine stock of these.

Wm. F Dreer, magnificent fringed rose pink; Nellie Lewis, light pink streaked with darker hue; $3.00 per 100; $25 00 per 1000.

IMPROVED Grace Wilder, the standard pink shade; $2.00 per 100; $15.00 per 1000.

Price of all other standard varieties on application. For well established plants from small pots see illustrated catalogue, mailed free.

Best home grown Double Excelsior Pearl Tuberose bulbs, $8 00 per 1000 by express.

CHAS. T. STARR, Avondale, Chester Co., Pa.

CARNATIONS—ROOTED CUTTINGS.

McGOWAN, BRIDE, WILDER, PORTIA, FISHER, BUTTERCUP, LOUISE PORSCH, and other new and standard varieties.

ROSES, CANNAS, GERANIUMS, VERBENAS.

Superior strains of PANSIES, ASTERS and VERBENA SEED. Special attention given to the EARLIEST VEGETABLE SEED. Sweet Corn, Peas, Tomatoes, Beets, Potatoes.

☞ Large Illustrated Catalogue and Trade List free.

C. E. ALLEN, Brattleboro, Vt.

I shall continue to propagate

Lizzie McGowan
CARNATION

UNTIL APRIL 1.

JOHN McGOWAN, Orange, N. J.

W. R. SHELMIRE,

AVONDALE, Chester Co., PA.

Rooted CARNATION Cuttings.

SEND FOR CIRCULAR.

Carnation Cuttings.

NEW AND STANDARD SORTS.

SEND FOR PRICE LIST.

WM. SWAYNE,
P. O. Box 226. **KENNETT SQUARE, PA.**

CARNATION MRS. L. FAWCETT.

A large lot of Rooted Cuttings of this magnificent new pink variety now ready, $16.00 per 100, $50.00 per 1 000.

L. FAWCETT, Carnationist, SALEM, OHIO.

CARNATIONS.

Rooted Cuttings of the three leaders in the Boston market, TIDAL WAVE, SILVER SPRAY and PORTIA; extra fine stock at lowest prices.

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NOTICE.

WHEREAS, Parties in the trade, contrary to agreement and general understanding, and in violation of the principles of business honor and integrity, are offering, and selling, rooted cuttings of Lizzie McGowan Carnation at a much less price than they agreed to so offer and sell the same. And

WHEREAS, I have the largest, finest, and healthiest stock in the country of this superb carnation, therefore, be it

RESOLVED, That hereafter my price for fine, strong well rooted cuttings of this valuable pure white **LIZZIE McGOWAN** Carnation will be $20.00 per thousand, and five hundred at thousand rate.

H. E. CHITTY.

Paterson, New Jersey, Feb. 10, '92.

OUR SPECIALTY IS

CARNATIONS

Send for price list of new and standard varieties, including Daybreak.

GEO. HANCOCK, Grand Haven, Mich.

30,000 ROOTED CUTTINGS.

CARNATIONS

NOW READY.

☞ Send for Price List.

I. LARKIN,
TOUGHKENAMON, CHESTER CO., PA.

Rooted Carnations.

	Per 1000	Per 100
HINZE'S WHITE	$10.00	$1.25
PORTIA	12 50	1.60
GRACE WILDER	12 50	1 50
SILVER SPRAY	12.50	1.50
LAMBORN	15.00	1.75

Cuttings put in Jan. 1, on Feb. 8 **99 per cent.** were well rooted.

Cash with order. **DE WITT BROS.,** BRISTOL, PA.

Buffalo.

Last week was an exciting time among the majority of our florists, for the annual election of the Florist Club was then held. There was a keen competition for the several honors in the gift of the club, but though the canvass was hot, no heads were broken. The lucky ones were as follows: President, John F. Cowell; Vice-President, W. A. Adams; Secretary, Edw. I. Mepsted; Financial Secretary, S. A. Anderson; Treasurer, Charles F. Keitch; Managing Committee, Wm. Scott, Dan'l B. Long, W. B. Milley, S. Pickleman and Joseph H. Rebstock.

After the election all other business was dispensed with and the members made a bee-line for the Tifft House, where Mine Host Haydon had spread a bountiful but "refined" repast. After that was disposed of the oratorical powers of the members and guests were given full scope. The late president, W. Scott, presided, and a speech, a song or a story was the order of the evening. About forty members and friends attended.

The prospects of the club were never better. The membership is strong and the officers are all enthusiasts. The Florists' Bowling Club has just been re-organized and from present scores made it will be strange if Buffalo does not make a better showing at the annual game than she has hitherto. Talk about Anderson of Philadelphia with his score of 232; our Asmus made an average of 189 in ten games and in one game 244.

Since Lent came in parties, weddings, etc., have gone out, but business is not at all bad. Good roses are in as great demand as ever and plants of all kinds never sold so well. Palmer & Son have had their windows very gay with thousands of fine daffodils, but the price is cut to 50 cents per dozen (too low). For those that have to buy such stuff this leaves an almost invisible margin. Violets were never so good and abundant here as this winter and retail now at $1.50 per hundred. From inquiry I find there are about 10,000 Harrisii growing here for the Easter trade. That ought to be enough to go round and prices are likely to be moderate.

Buffalo almost entirely escaped last week's great blizzard, which was so severe in central New York, but the weather is very cold for this time of the year, which is perhaps a blessing, for lilies, cytisus, azaleas and other Easter stuff is generally quite forward enough. G. S.

CYCAS REVOLUTA.

Second and last Importation of the Season of 50,000 lbs. Cycas revoluta, the only true long-leaved variety. Offered at these low prices for the next

30 Days.

FIRST-CLASS STOCK.

CHOICE SELECTED Stems, from 6 inches to 3½ ft., per 100 lbs. $10, f. o. b.

SPECIAL INDUCEMENTS ON LARGE LOTS.

SECOND-CLASS STOCK.

CHOICE but not selected stems from 6 inches to 3½ ft., per 100 lbs. $6.50 f. o. b.

Special inducements on larger lots.

PRICES REDUCED FOR THE NEXT 60 DAYS ON ALL STOCK.

We also received choice Rhapis flabelliformis, Viburnum plicatum (Japan Snowball), Magnolias, Sciadopitys verticillata; fine Retinosporas, Maples, Tree Paeonias, Herbaceous Paeonias, Camellias, Lilium Auratum, Rubrum, Album, Longiflorum, etc., etc.

Send for Catalogue.

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303 to 312 Wayne St., SAN FRANCISCO, CAL.

CHRYSANTHEMUMS.

We are now delivering our

PRIZE CHRYSANTHEMUMS.

Refer to our Catalogue for the Florists' Prize Set, and send in your orders at once for Chrysanthemums, New Genistas, and anything in the florists' line.

PITCHER & MANDA,

UNITED STATES NURERIES, SHORT HILLS, N. J.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

CHRYSANTHEMUMS.

ROOTED CUTTINGS of the finest varieties in cultivation, at $2.00 per 100; 10c. per 100 extra when ordered by mail. NOW READY.

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Pelican
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White Eve
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PINK.

October Beauty
John Sherman
L. B. Bird
Mrs. Meredith
President Arthur
Ada Spaulding
M. Boyer
Porcupine

RED.

Cullingfordii
E. G. Hill
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The largest and best late white Chrysanthemum. Ivory and Domination the best early whites. V. H. Hallock, White Cap; H. E. Widener, E. G. Hill and all of last years novelties. Will exchange for young stock of geraniums, Coleus, Heliotropes and roses.

R. E. SEALY,
VIOLET RANGE,
PEARSALLS, NEW YORK.

ROSES.

Strong, healthy plants of La France, Mermet, Bride and Watteville, 4 inch pots, $5.00 per 100; $40.00 per 1000. 2½-inch pots, $3.50 per 100; $30.00 per 1000.

CARNATIONS.

Hinze's White, Portia and Grace Wilder, from 2½-inch pots, $2.50 per 100. Rooted Cuttings, $1.00 per 100.

ROOTED CUTTINGS.

Heliotrope, $1.00 per 100; from 2½-inch pots, $2.00.
Ageratum, white and blue, Alternantheras, Coleus and Gnaphalium lanatum, Sweet Alyssum, } 75 cts. per 100; from 2½-inch pots, $1.50.

JAGD & CO.,
Springfield, Mass.

$3,000

Extra strong plants JESSICA CHRYSANTHEMUM, from 2-inch pots, 50c. per doz.; $3.00 per 100. Or will exchange for Hydrangea Otaksa, double red Geraniums or Tuberous Rooted Begonias. Address Souster & Co., Florists, Elgin, Ill.

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FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30.00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	3.00	25.00
" " Rooted Cuttings	1.00	8.00
Lemon Verbenas, 1 year old, strong	6.00	

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Coleus, old standard and new fancy sorts	1.00	8.00
Feverfew (Little Gem), extra strong	2.00	15.00
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WOOD BROTHERS,
FISHKILL, N. Y

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VERBENAS.

POTTED PLANTS $2.50 per 100. $20.00 per 1000.

ROOTED CUTTINGS $1.00 per 100. $8.00 per 1,000.

FINE STOCK.

ROSES, CARNATIONS

AND A FULL LIST OF PLANTS OF ALL KINDS VERY LOW.

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Bouvardias, Chrysanthemums, double white and single Primroses, Echeverias, Alternantheras, Smilax, Coleus, Begonias, Poinsettias, Cyclamens, Adiantums, Geraniums, Fuchsias, Pandanus Veitchii, Ferns, Hydrangeas, Palms, Draenas, etc. Healthy plants; large stock, and low prices. Best new and old varieties. Write for price list.

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About 500,000 Pearl Tuberose Sets

AT PRESENT TO SELL.

Also about 1000 Calla Bulbs or Plants by May 1st. Home grown Bulbs are the best.

Address, HERMAN SCHLACHTER,
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AUCTIONEERS OF

PLANTS, BULBS,

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205 Greenwich St., NEW YORK.

During present month our regular sales of Hardy Roses and Ornamental Plants will be held ***Thursday of each week***, and will be followed by sales of plants for bedding and general decorative purposes.

Special days have been set apart for the sale of Orchids.

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During more than 15 years we have made a specialty of them, and by crossing and selecting succeeded in getting a strain of **low, very free-flowering plants with broad leaves and upright flower-stalks, bearing such exceedingly fine flowers and so varied as to color, as scarcely will be found elsewhere.** We recommend them as far superior to those commonly met with. We offer **fine, strong tubers** at following very low prices:

	Per 100	Per 1 00
Mixed, fine quality	$ 4 00	$35 00
" extra selected	6 00	50 00
Separate colors, extra	7 00	60.00

Smaller tubers 20 to 30 per cent less.
Double mixed, fine large flowers...$10 to $20 per 100
Splendid named doubles.....$3 to $10 per doz.

Tuberous Begonias are free from import duties. Costs of freight prepaid from Holland to New York. For 250 tubers or less, $1 25; for 500, $2.00; for 1000 to 1300, $3 25; for 2500 to 3300, $5 00

Terms for unknown correspondents, cash with order or good references.

ZOCHER & CO., Haarlem, Holland.

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LILIES FOR EASTER.

HARRISII, LONGIFLORUM, CANDIDUM, HYDRANGEAS, LATANIA BORBONICA, DRACAENA INDIVISA, GERANIUMS, ETC.

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SWEET PEA SEED A SPECIALTY.



TUBEROUS BEGONIAS, Seeds and Bulbs.

Our own grown Superior Strains.

TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

TESTED SEEDS of VICTORIA REGIA and all other WATER LILIES.

FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

ROSE HILL NURSERIES. **SIEBRECHT & WADLEY, New Rochelle, N. Y.**

TUBEROUS BEGONIAS.

NOW IS THE TIME TO SOW SEED.

SINGLE OR DOUBLE MIXED.....trade pkt. $1.00
SINGLE TO COLOR (9 colors $4.00)..... " .50

Half packets if desired. Send for new descriptive catalogue.

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Tuberous Begonias.

Seedlings ready end of this month. In separate colors, per hundred, $3.00; mixed, $2.50. Delivered by mail or express. Safe arrival guaranteed.

BRAUER & RICHTER, McConnelsville, Ohio.

Blue Water Lilies Very Cheap.

NYMPHÆA ZANZBARENSIS, the Blue African Water Lily, grown and will be shipped in 2½-inch pots; sure to bloom; sown in October, 1891. Fine plants at $25.00 per 100.
FANCY LEAVED CALADIUMS, 25 kinds, 5c. to 25c. each, according to size
EULALIA JAPONICA VARIEGATA, } very heavy,
EULALIA JAPONICA ZEBRINA, } 25c. each.
I will take a Hot Water Boiler, medium size, in good condition, in exchange for the above goods.

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16,000

CYCLAMEN GIGANTEUM SEEDLINGS.

Strong, mixed, $5.00 per 100, delivered 1st August. Rubrum, $6.00 per 100. Mont Blanc, $7.00 per 100. 1 Year Old Bulbs, First size, $25 00 per 100 Medium size, $18 00 per 100. Heliotrope Queen Violet from 2½ in. pot, $4.00 per 100. Double Petunia from 2½ in. pot $5 00 per 100. Impatiens Sultana Variegata from 2½ in. pot, $7.00 per 100.

Washington Headquarter Nursery,
R. LAUTERBACH, Prop.
Valley Forge, - - - - - - Penna.

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SWEET PEA SEED.

NELLIE JANES,

50 cts. per ounce postage prepaid.

JOSEPH T. JANES, Park Ridge, Cook Co., Illinois.

R. J. MENDENHALL,

The Pioneer Florist of the Northwest.

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CUT FLOWERS IN SEASON,

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And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist. Send for Catalogue.

R. J. MENDENHALL,
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NOW ON HAND IN NEW YORK:

25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other

PLANTS FOR FORCING AND DECORATING.

Address **P. OUWERKERK,**
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Catalogue on application.

NOTICE.

HARDY DOUBLE ENGLISH VIOLET.

This Violet is darker purple, and a much stronger fragrance than the "Marie Louise." It is unsurpassed for borders and it is perfectly hardy and the foliage a dark green. Price, $1.25 per dozen by mail postpaid; $5 00 per 100 by Express. Special price on large lots. Plants ready April 15th.

John M. Freeman, Jr.,
P. O. Box 26. *WELLFLEET, MASS*

Montreal.

There was a good attendance at the meeting of the club last Tuesday evening, though some of the members were late (had been to the elections.) The spring show is to be held April 13 and 14 in the Windsor Hall. The premium list amounts to a little over $400. After business was disposed of J. Pidduck read a short paper on "Cinerarias," and after some discussion on it H. Stocking read a very able paper on "Propagation"; the discussion of the latter was left over till next meeting, as time was up for closing. The annual meeting will be on March 22, but as nominations and elections take place the same evening, it is impossible to give any idea who the officers will be next year.

Our secretary has got a very bad attack of "La Grippe." B. B. Bland's "mums" got a severe touch of "Jack Frost," but B. says he will get there next November just the same.

Business has not been quite so brisk since Lent commenced, still it has not been bad. Roses are a little more plentiful. The tail end of the blizzard came along here yesterday, but as it was not very cold it did not do much damage.

J. B.

Some canna flowers of a very rich deep scarlet color have been sent us by Mr. G. W. Grossart, Belleville, Ill., who states that it is a seedling raised by him, and that with him it is superior as a show plant to either Mme. Crozy or Star of '91. The color is certainly good.

LITTLE'S ANTIPEST.

— A —

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

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CALIFORNIA STATE FAIR OF 1890.

This preparation Is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

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VIOLETS.

Healthy Violet Runners of MARIE LOUISE ready now. 60.000 sold this Spring.
$5. for 1000; $20. for 5000.

Cash with order.

GEO. H. BENEDICT,
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FOR SALE.

One 16 year old Variegated Agave, with 18 leaves.
One Six year old Yucca.
Two American Magnolia Trees, 3 feet.
Two Night Blooming Cacti, Colubrina grandiflora.
One Large Fig Tree.
One Pomegranate Tree.
The lot, f. o. b. cars, for $25 00.

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HYDRANGEA PANICULATA GRANDIFLORA

Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine	$5.00	per 100;	$40.00	per 1000
TWO YEARS, 18x24 inches, fine	6.00	"	50.00	"
TWO YEARS, extra selected, 2½x3 feet, strong	7.00	"	60.00	"
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00	"	70.00	"

Packed in best manner and delivered to Express or R. R. free of charge on receipt of proper remittance.

ADDRESS **THE DINGEE & CONARD CO.,**
West Grove, Pa.

New Hardy Herbaceous Pæonies,

Including a **SET OF NINE ENTIRELY NEW** sorts never before offered in this country, the whole comprising the best collection of this gorgeous flower ever offered here. All at low prices. Also 500,000 fine Hardy **Shrubs, Hedge Plants, Evergreens and Trees.** Also a complete collection of **Hardy Herbaceous Plants, Japan Iris, etc.** Catalogues are now ready, free.

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Evergreens, ROSES, Shrubs, Grapes, Hardy Plants, Pæonies, Small Fruits.

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New **Illustrated** and descriptive priced **General CATALOGUE,** containing information *indispensable to planters*—the *most complete* published **FREE**

SUPERIOR STRAIN OF ASTERS GROWN BY JAMES SEMPLE.

I offer my superior strain of Aster Seed for sale for the first time. White, pink, and mixed white and pink. Trade pkts. $1.00. The stock being limited all orders will be filled in rotation as they are received.

For Sale by
JAMES SEMPLE, BELLEVUE, PA.
AND
LUDWIG & RICHTER, Florists, ALLEGHENY, PA.

Pittsburgh, Jan. 20, '92.
MR. JAMES SEMPLE, Bellevue, Pa.:
I consider your Asters "Mary Semple" and "Semple's White" the finest strain without exception, that I ever saw. Yours truly, N. PATTERSON.

Allegheny, Pa., Jan. 30, 1892.
MR. JAMES SEMPLE, Bellevue Pa.:
We can tell every florist in the country it is the best Aster in cut flowers for florists' use; has long stems and in good colors. LUDWIG & RICHTER.

Allegheny, Feb. 1, '92
After years of careful selection of the most perfect flowers of Asters saved for seed, Mr. J. Semple has brought this fine strain of Asters up to perfection. The fine perfect flowers, long stems and delicate colors make this a perfect gem of Asters. As I have seen them growing in the field must pronounce them the finest sight that ever came to my notice of Asters. WALTER HARVEY, Florist.

"Decidedly the best Aster we have seen." AM. FLORIST, Sept. 24, '91, page 141.

Please mention American Florist.

Ipomœa Pandurata.

(New, hardy, Day-blooming Moon Flower.)

Large, strong roots, by mail 50 cts. per dozen; by express $3.00 per hundred.

C. M. RASOR, GREENVILLE, O.

CLEMATIS CRISPA.

Strong 2 and 3 year old plants at $4.00 per 100; also Venus Flytrap, Pitcher and Trumpet plants or Sarracenias at $3.00 per 100.

MRS. H. REHDER,
Wilmington, North Carolina.

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Hardy Border Plants

The finest collection in America.

Ornamental Trees, Shrubs, & Conifers

Second to none, the largest in New England.

LARGE AND SMALL FRUITS.

Proved for the climate of New England.

Descriptive Catalogues, unexcelled for completeness and correctness, free.

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If you have been overlooked, drop us a postal.

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Established in 1854. READING, MASS.

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Our collection of Pæonies comprises all the finest in cultivation. It embraces the finest and latest novelties from France and Belgium, together with the well-known standard varieties. Catalogues on application.

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We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, Shrubs, Roses, Vines, Small FRUITS, Hedge Plants, ERUIT and FOREST TREE SEEDLINGS. Priced Catalogue mailed free. Established 1852.

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Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.



TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

OUR CUT FLOWER BUSINESS

Demands all our growing capacity, we have therefore decided to close out our entire stock of plants this season. We start the ball rolling with the following. Speak quick if you want them:

		Per 100
450	Dracæna Australis, 18 to 24 in. high	$20 00
325	" " 6 to 8 in. pots, 2 to 3½ feet high	50 00
1300	Dahlias, best vars., ground roots	8 00
	" " " single roots	3 00
900	Cannas, Crozy's Hybrids	5 00
5800	Tuberous Begonias from the finest collections on the Continent of Europe this lot gave us flowers 4 in. in diam. when growing in 2 in. pots last fall	8 00
200	Hibiscus Grandiflora, the best for florists' use, 3 inch	4 00
200	Hibiscus Grandiflora, the best for florists' use, 4 and 5 inch	8 00
3500	Ivy, English, 2 to 4 feet high	8 00
	Clematis, strong imported stock, pot grown, 8 in. pots; can now be shaken out and packed light	60 00
2200	Vincas, variegated, fine plants	8 00
2000	Echeveria Rosea, 2 to 4 in. in diam.	4 00
1000	Calceolaria, from a celebrated European grower. There was nothing on our place that attracted so much attention as did those last season; they sell at sight	6 00
7000	Hollyhocks, this lot embraces three of the finest European collections, separate colors	4 00
1000	Genista Pubescens, long graceful racemes of golden yellow pea shaped flowers, can be had in bloom Jan. 1, or can be retarded till Easter, invaluable as a pot plant or for cutting, fine plants	10 00
200	Crotons, stock plants, 8 inch, fine bushes, best kinds; a grand opportunity for any one to get up a stock of this rising race of plants, $2 each.	
1500	Pelargoniums, best varieties, 4, 5 and 6 in., fine bushy plants, 3 sizes assrt	12 00
1000	Hydrangea Otaksa, 6 inch stock	20 00
8000	Roses. We have a lot of mixed stock in 3 and 4-inch pots wintered in cold frames and in splendid condition for a shift, the stock is well ripened; the varieties in about equal proportions are La France, Hermosa, Duchess de Brabant, Marie Guillot, Malmaison, Gen. Jacq, Agrippina, Mrs. Jno. Laing, Ulrich Brunner, etc.; price if ordered before March 15	5 00
	American Beauty, splendid stock, clean and thrifty, 2½ inch pots	8 00
300	Phœnix Rupicola, 2½ to 3 feet high	75 00
1000	" " 1 foot high	30 00
750	Pandanus Utilis, 2 to 2½ feet high	75 00
100	Dracæna Fragrans, 7 inch	50 00

NOTE.—This stock is being rapidly depleted; if you see anything that you need hustle your order in or get left. April 1st we commence overhauling and rebuilding the houses in which most of this stock is growing in order to prepare them for other purposes, hence prices are a secondary consideration.

Our establishment, covering an area of 70,000 square feet of glass, is located in the heart of the city, where land is much too valuable for greenhouse purposes, and as we wish to devote more space to the cut flower business we are compelled to drop the plant trade for the present.

JOHN IRVINE CO.,
BAY CITY, MICH.

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H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
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PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.



Florists' Supplies
IS OUR
SPECIALTY.
Send for catalogue.
Phila. Immortelle Design Co.,
725 Arch St., Phila., Pa.

HAIL Lock the door BEFORE the horse is stolen. Do it **NOW!**
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

BARGAINS IN HARDY PLANTS.

	100	1000
Achillea, Double White and Pearl	$ 6 00	$50.00
Anemone Japonica, white and red	8.00	
Anthemis tinctoria	8.00	
Anthericum liliastrum major	8 00	70.00
Aster nova-angliæ rosea	8.00	
" " " clumps	12 00	
Astilbe Japonica (Spiræa Japonica)	8.00	50.00
" " clumps	9 00	
Boltonia latisquamæ	6.00	
Chelone Lyoni	10.00	
Chrysanthemum L. Boehmer, A. Hardy, Ada Spaulding	6.00	
" other standard sorts	5 00	40.00
" Maximum (Giant Daisy)	9 00	
" Uliginosum	8.00	
" clumps	12.00	
Convallaria (Lily of the Valley)	2.00	15.00
" " clumps	8.00	
Coreopsis lanceolata	5.00	40 00
" " clumps	9 00	80.00
Cyclamen, hardy varieties	9.00	
Delphinium formosum (Larkspur)	8.00	
Desmodium penduliflorum	10.00	
Dianthus barbatus (Sweet William)	5.00	
" " clumps	8.00	
" Rose Scotch Pink	6.00	
" " " clumps	9 00	
Dicentra spectabilis	8.00	
Diditalis purpurea (Foxglove)	8.00	
Erianthus Ravennæ	8.00	
Eulalia gracillum univittata	8.00	70.00
" Japonica var	6.00	50 00
" " zebrina	7.00	60.00
Euphorbia corollata	6.00	
Funkia ovata (Blue Day Lily)	6.00	50 00
" subcordata (White Day Lily)	7.00	60.00
" variegated-leaved	10.00	
Geranium sanguineum	8.00	
Glaucium luteum (Horned Poppy)	6.00	50.00
Hemerocallis flava (Yellow Day Lily)	7.00	
" Mittenoorfiana—Orange D. Lily	6.00	
Helianthus—Double Sunflower	8.00	
Helleborus—Christmas Rose	8.00	
Hesperus matronalis, white, purple	7.00	

	100	1000
Hollyhocks, double, extra strain, all colors, separate, 3-in. pots, extra fine	$5.00	$45.00
Hyacinthus candicans	5.00	40.00
Iberis sempervirens—Candytuft	10 00	
Iris, German, finest named	7.00	60.00
" Japan, separate colors	10.00	
" Japan, mixed colors	5 00	40.00
" cristata	5 00	
" Siberica	6.00	
Lathyrus—Perennial Pea	8 00	
" —White Perennial Pea	10 00	
Lobelia cardinalis	7 00	60.00
Lychnis viscaria fl. pl—Ragged Robin	8.00	
" Haageana—Burning Star	7.00	
Mountain Fleece	6.00	
" heavy plants	9 00	
Myosotis—Forget-me-not, B. Perfection	8 00	
Œnothera speciosa—Evening Primrose	6.00	
" Ice King	6 00	
Pæonia, finest sorts	15 00	
Pardanthus sinensis—Blackberry Lily	5.00	40.00
Papaver orientale—Oriental Poppy	8.00	70.00
Phlox, finest named	6.00	50.00
" subulata—Moss Pink	6 00	
Platycodon grandiflorum, 1 year	6 00	50 00
" fl. pl., blue, white	9 00	
Plumbago larpentæ	6.00	
Primrose, Double English	10 00	
Rhexia Virginica	5 00	
" Mariana	5.00	
Sedum spectabilis	10.00	
Spiræa aruncus	8 00	
" filipendula fl. pl	10.00	
" lobata—Venusta	8.00	
" ulmaria fl. pl	10 00	
" " variegata	10.00	
Tradescantia Virginica	6.00	
Tunica saxafragica	7.00	
Turkey's Beard	6.00	50.00
Veronica amæthystina	6.00	
" incana	6.00	
Violet, Alpine (Cornuta), blue, white	5.00	
" " " blue, white, clumps	9.00	
" Double Russian	12.00	

25 at 1?0 and 250 at 1000 rates. All stock is A No. 1 and in prime condition. Packed free of charge when cash for full amount accompanies the order.

For other varieties and for Shrubbery, Vines, Deciduous and Evergreen Trees, Fruit Trees, Small Fruits, etc. See our Semi-Annual Trade List for Spring of 1892, mailed free to all florists and nurserymen who ask for it.

J. T. LOVETT CO., Little Silver, N. J.

Mention American Florist.

THE NEW HARDY ORANGE—CITRUS TRIFOLIATA,

from Japan, is actually as hardy as a Lilac, and will produce genuine orange flowers and fruits, in the greatest profusion, in any yard. It stands the winters of Ann Arbor, Mich.; and in the Zoological Garden at Philadelphia, and in the vicinity of New York City it has been blooming and fruiting for several years. It differs from all other oranges in having trifoliate or clover-shaped leaves, larger and finer blooms than any other sort, and produced over a much longer season, frequently blooming two and three times during the summer. It is a dwarf plant, forming a beautiful shrub from 4 to 12 feet high, and is equally desirable for the open ground, or for pot or tub culture; and the magnificent appearance of such a plant, covered with a sheet of snowy bloom, or weighed down by its brilliant and no less ornamental fruits, may be better imagined than described. Prof. W. F. Massey, of the N. C. College of Agriculture, planted 13 of these trees in the hills of Northern Maryland, in the Spring of 1880. They were little seedlings, out of 4-inch pots, and were exposed the next winter to a temperature of 18° below zero and 4° below at noon, with a bright sunshine, and no snow on the ground, which was frozen deeply. They were entirely unprotected during this spell, the coldest he ever knew, and were not injured in the least, not even the tender, sappy shoots made late in the fall, and are now in full bearing, and have been for some years. He is very enthusiastic over its possibilities, and pronounces it



"THE COMING HEDGE PLANT"

for all sections of the country, and superior in both usefulness and beauty, for this purpose, to anything yet introduced. Some of the points in its favor as a hedge plant are: Its perfect hardiness; its natural dense habit of growth; branching freely, close to the ground; requiring little or no trimming to keep it within bounds; its abundance of long, sharp thorns, forming a barrier which no animal can force; and last, but by no means least, it *never* sprouts from the root, so it will never become a nuisance like the so-called Osage Orange or Maclura. As an ornamental hedge for the yard, it is simply perfect. Every stem and twig being bright, glossy green, it is highly ornamental in winter as well as summer. When used for a hedge, the plants should be set from 18 to 20 inches apart in a single row. *It may also be used as a stock on which to bud, or graft, and dwarf the larger growing Oranges, and for this purpose is particularly valuable to cut-flower growers.* One of our customers writes: "MESSRS. PIKE & ELLSWORTH:—*The Trifoliate Orange which I bought from you stood out all winter and started off brisk this spring* (1891). *It did not even shed its leaves.*" F. M. WILLIAMS, Smithton, PA.

At least one tree of this beautiful Orange should find a place in every yard in the land. And this is possible at the following remarkably low prices, for which we send fine little trees, post paid, to any address, and safe arrival guaranteed: Price, 20c. each; 3 for 50c.; 6 for 75c.; 12 for $1.25; 25 for $2.35; 50 for $4.35; 100 for $8.00. Address

PIKE & ELLSWORTH, JESSAMINE, Pasco Co., FLA.

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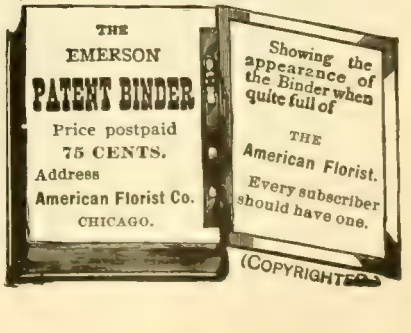
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AZALEA AMŒNA

$3.00 per dozen. All kinds of
Ornamental Nursery Stock.
Send for Descriptive Catalogue and Wholesale List.
SAMUEL C. MOON, Morrisville, Bucks Co., Pa.

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Patents for New Plants.

It was recently reported that a bill was before, or had been passed, by Congress making it possible to secure "patents" on new and useful plants. The report seems to be entirely erroneous, as the following from Congressman Bunn, in response to a query, will show:

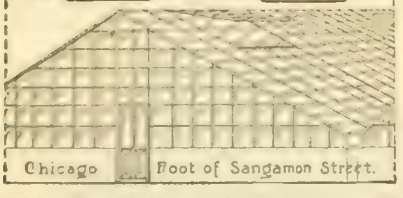
"I know nothing of the bill except what I have seen in the papers. There is a mistake somewhere. I have tried to correct it and hope you will do the same."

AS A SAMPLE of the monumental cheek of some of the dead beats that infest the trade one of our advertisers sends us a letter he has received from a man who had already beaten him out of a bill. The party had the audacity to write asking prices and proposing to "buy" again. The record of this party and a lot like him are on file with the Secretary of the Florists' Protective Association. If you are in the wholesale trade and are not a member of this association you are making a mistake. You can't afford to do business without the information it supplies, and the membership fee is only $2 a year.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

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2 -inch.	per 1000,	$3 25	5-inch,	per 100,	$ 1.88
2½ "	"	3.50	6 "	"	2 20
2¾ "	"	4 00	7 "	"	3.50
3 "	"	5 00	8 "	"	5 00
3½ "	"	7 25	9 "	"	8.00
4 "	"	9 00	10 "	"	10.00

Low freight rates to all points. Termscash. f. o. b

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A. H. Hews & Co.

Wish to inform their customers that notwithstanding the recent diastrous **Fire** in their factory, through the kindness of their friends in the trade, they will be able to fill all orders which they may receive, with an excellent quality of

STANDARD FLOWER POTS.

All orders will receive prompt attention.

We are now rebuilding, and hope to be able to furnish our own **Superior Flower Pots** in a very short time.

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As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

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Branch Warehouse: 713 & 715 Wharton St., Philadelphia, Pa.

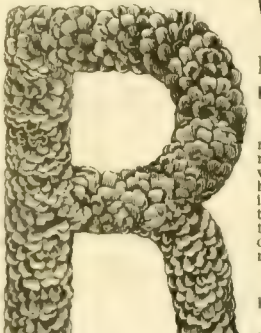
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Not only are our pots lighter in weight and yet as strong as any other pot on the market, but our way of packing for shipping will cause you to pay for the smallest dead weight possible. These two items we claim will save you one third in freight charges. To prove this will send circulars showing number of pots in crate and weight of same, with freight rate per 100 pounds to any point.

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Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3 00 per 100.

Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

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THE NEW STYLE GARDEN TROWEL.



IT WON'T BREAK A TROWEL AND DIBBLE IN ONE.

P. J. Berckmans, Pres. Am. Pomological Society, writes "It is just the trowel we need."

J. HARRIS, Moreton Farm, N. Y. "For many purposes your trowel is the best I ever saw—a grand tool for setting out cabbage, strawberry and tobacco plants."

Practical gardeners all indorse it, saying it will save its cost daily in the market garden. 3 SIZES, No. 1. 8-inch tool steel tempered and polished, **40 cts.** No. 2, 7-inch bright steel, **30 cts.** No. 3, 5 inch, **20 cts.**

Mailed on receipt of price.

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Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

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DISSOLUTION.

Notice is hereby given that the firm of John L. Diez & Co. has been this day, by mutual consent, dissolved. All accounts are payable at the office, 530 North Halsted St.

JOHN L. DIEZ,
JOHN C. MONINGER,
JOHN G. OTTMANN.

Chicago, January 1, 1892.

NOTICE.

The Greenhouse-Construction Material Department, heretofore carried on by John L. Diez & Co., has been purchased, and will be succeeded and carried on by the undersigned at Nos. 297 to 307 Hawthorne Ave.

Respectfully yours,
JOHN C. MONINGER.

Chicago, February 1, 1892.

JOHN C. MONINGER,

MANUFACTURER OF

CYPRESS BUILDING MATERIAL

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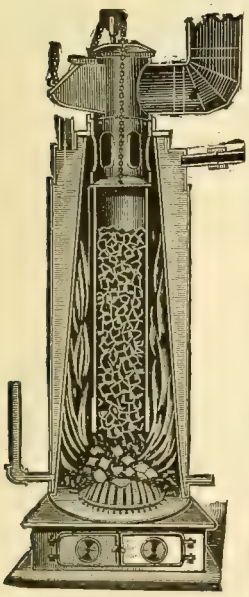
Greenhouses, Rosehouses and Conservatories.

Office and Factory, 297 to 307 HAWTHORNE AVENUE.

CHICAGO, February 1, 1892.

Would herein announce to the patrons and the trade in general, that the undersigned has had entire charge of the Greenhouse-Construction Material Department of John L. Diez & Co., that the same will be carried on and conducted on the same principles that has characterized the name of John L. Diez & Co. in the past, and therefore solicits a liberal share of your patronage.

Respectfully yours,
JOHN C. MONINGER.



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GREENHOUSES, STORES, DWELLINGS, ETC.

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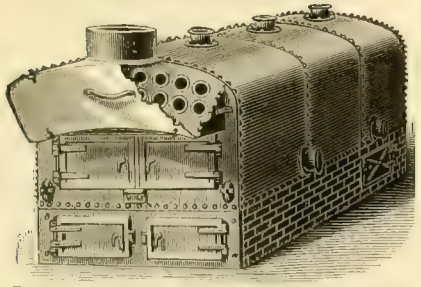
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IMPROVED

Greenhouse Boiler,

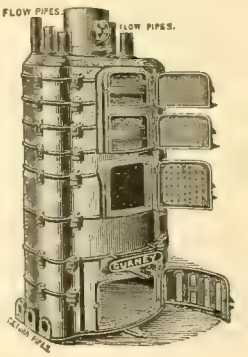
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Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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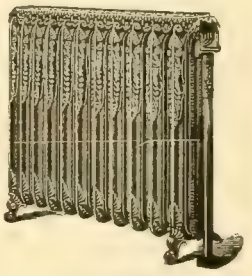
If Not perfectly satisfied with the system you are employing to warm your home, store, office, or any building, large or small, in which you are interested,

Why Not employ the Gurney System, which is the very personification of efficiency. Thousands are now using the

Gurney Hot Water Heaters and Radiators,

and every day adds to their universal popularity. For heating by hot water circulation they are unequalled.

Send for "HOW BEST TO HEAT OUR HOMES" a book of great interest to all.



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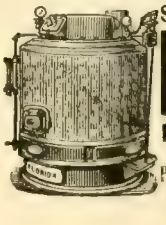


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THESE POINTS are far superior to the old mode of setting glass, as they will hold each pane in place, preventing the glass from slipping and causing binding and cracking. Each box contains 500 rights and 500 lefts. We also make a tool for driving the points. **Price, 35c a Box. Driver, 15c. A Liberal Discount to the Trade.**

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H. W. EAMES CO., Milford, Mass.,
Mention American Florist.



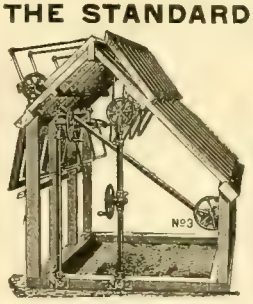
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THE STANDARD Ventilating Machines



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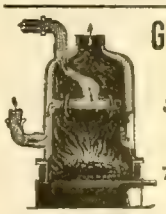
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Used by **Florists, Gardeners, etc.,** invaluable for **Tobacco Growers. Protects** from frost. Promotes hardy, vigorous growth and keeps beds warm; will not shrink or mildew. For sale by the leading Dry Goods houses, Seedsmen, Florists, etc. Well known and extensively used. For circulars and samples apply

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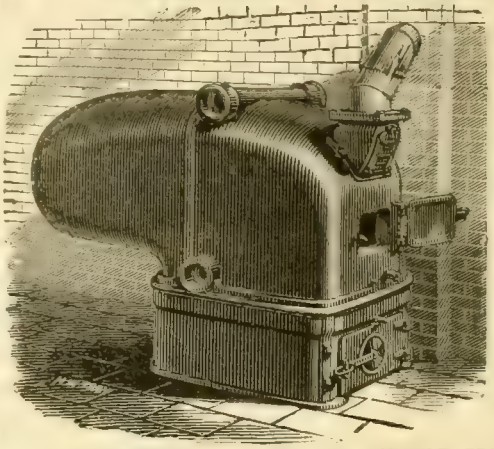
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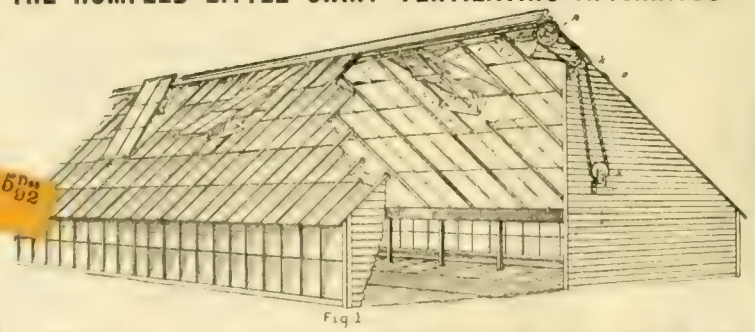
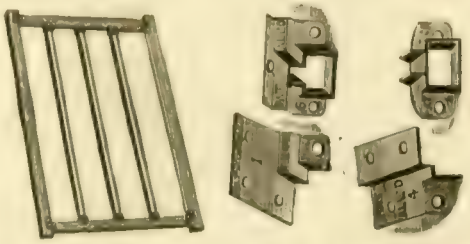


Fig 1

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THE DIRECTORY is now in the bindery, and barring further unexpected accidents and delays will be sent out before the end of the present week. The book contains 195 pages—72 pages more than the last edition, and contains a vast amount of valuable reference matter in addition to the perfected directory list of those in the trade. The price of the book is $2 a copy. Order one now.



"Orchids."

BY EDWIN LONSDALE.

[*Read before the Penna. Hort. Society March 15.*]

Orchids were never more popular than they are at this time. They have been termed the "aristocrats of the floral kingdom", and appropriately so, and at the same time they were known as the "rich man's flower." The latter title was owing to the fact that a few years ago they were found in cultivation only in the hothouses of the very wealthy, and they were not always successfully grown even there, as many of the species were subjected to a temperature which was not congenial to their well being.

Since it is known that orchids will rebel against treatment which is known among gardeners as coddling, some writers on the subject have gone to the other extreme and asserted that they may be successfully grown and flowered in any greenhouse structure. While this is true in some instances with some species and genera, it is not a safe doctrine to advocate without some qualification.

While progress in their cultivation has been very rapid during the past few years, yet the supply of flowers has not been equal to the demand. It is not a great many years since one of the leading florists in this city (Phila.) made the statement that flower buyers would just as soon have a pansy as an orchid. It is not so now. Not that pansies are loved any the less, but the orchid is known and appreciated more. One enthusiast went so far as to say recently that more orchids had been used this winter than all previous seasons combined. This seems like a rash statement to make, yet I am inclined to believe there is some truth in it.

The orchid appears to be a remnant of a pre-existent period in the world's history. Its distinctive character in all its parts, its roots, its psuedo-bulbs, its peculiar and high-toned flowers all seem to indicate that the earth ages and ages ago perhaps, presented a very different appearence to what it does to-day. With few exceptions, most of the species are found growing in their wild state, on the trunks of trees and the rocks of mountain sides. This applies generally to those found in the tropics. There is at least one species of cypripedium—"Venus Slipper" (which are generally known as terrestrial orchids) found growing on lofty trees in the jungles of Bornea. This is Cypripedium Lowii.

Very few other plants could exist under the same conditions in which the orchid flourishes. In their cultivation, one of the first things to take into consideration is what is termed "potting," and the potting material, for herein lies the great difference between the orchid and the other members of the vegetable world. All other vegetation to be successfully grown must have *soil*. Live sphagnum moss, and wild fern roots with the soil mostly shaken out, have been found the best material in which to grow orchids. Orchids obtain their sustenance from the atmosphere; and of course moisture, of which they require an abundance during the growing season.

In the tropics where most of the best orchids which we cultivate are found growing wild, there is a rainy season, and a dry season. During the former the growth is made. The latter is their resting period. In cultivation we must imitate those conditions as nearly as possible, or we will have no flowers, nothing but leaves. Nearly all vegetation must have a resting time; or we would have neither flowers, nor fruit. In the temperate zone frost and a lower temperature generally, bring about the proper conditions.

If an orchid is placed in a pot or basket *properly;* that is to say, if an abundance of crocks (broken pots) are used, with some charcoal, and the plant secured firmly in the moss, and fern roots (or peat, as the latter is frequently called), with the crown of the plant elevated an inch or two above the level of the pot, and it is growing in a congenial temperature, it is almost impossible to give it too much water. An orchid abhors stagnant moisture, consequently the oftener water is given the less stagnant it is likely to be. Fresh water intelligently administered will drive what remains of the last dose away.

Cypripedium insigne is the best known orchid in cultivation, and it is one of the best for a beginner in the culture of orchids to commence with. I have seen it flourishing fairly well when potted in the same compost as that used for geraniums; but when growing in material recommended, it has a much more satisfied appearance and gratefully responds to the more rational treatment by producing more and better roots, and consequently a better crop of flowers.

There are other cypripediums which may be recommended for the beginner to start with, viz., villosum and what is now considered to be a variety of the latter, and that is C. Boxalli. C. callosum is also a free and sure bloomer under ordinary care and the flower is very graceful in form. C. Lawrenceanum has proven to be one of the most valuable varieties, or rather species, which we have among the "Venus Slippers." It is compara-

tively new, having been discovered in the warm and moist island of Borneo by Mr. Burbidge when collecting for the Messrs. Veitch & Sons of London about the year 1878. It was found growing upon the ground upon limestone rocks, near the banks of a river, on the northern side of the island. It is a magnificent variety; the leaves are stout and large; the ground color is in some forms grayish green, in others yellowish green and marbled with a rich darker green. It is extremely ornamental even when not in bloom. The flowers are large and are borne on very long stems; the dorsal sepal (or heel of the slipper) is broad, and is white striped with curved lines of a rich purplish hue; the flower sepals are small, white streaked with purple and having an infusion of green; petals (the straps or latchet) half an inch wide standing out at right angles, greenish towards the bases, tipped with a dull color and ornamented on both margins with hairy black warty spots. The pouch-like lip (or toe of the slipper) is very large, deep brown above, passing into yellowish green below.

There are quite a number of named forms of this species, in which the flowers are larger and the colors are much modified and brighter. The most distinct and wonderful variety of this species is that known as Hyeanum, named in honor of M. Jules Hye, Ghent, Belgium. It may be described as an Albino form of the species. It is white and green. The dorsal sepal (heel) is pure white, through which run lines of bright green, the petals (latchet) being yellowish green, the margins having the hairy black warty spots of the typical plant. The pouch (toe) is soft green, with deeper veins. It is one of the most coveted plants among cypripedium lovers.

The above description is copied from a recent number of the London *Garden*. I take a peculiar pleasure in repeating it here, because about a year ago I had the good fortune of finding one of these "emerald gems" among my own collection. It was sold to Messrs. Hugh Low & Co., London, for 100 guineas (about $500).

When I secured plants of Cypripedium Lawrenceanum, about three years ago, an orchid expert said that I had made a mistake, giving as his reasons that it flowers at the wrong season of the year for Americans to appreciate it (summer time). This opinion prevails more generally than the facts of the case warrant. Books on orchids published in Europe give summer as its proper season of blooming. With us it is one of the most free blooming cypripediums we have. When the plants were received they had not been in cultivation at all, having come here by way of London direct from Borneo. One mature growth constituted a plant. At the present time one of these plants has six flowers showing in various stages of development.

They produce under the treatment given them here two crops of flowers yearly. Commencing late in the fall the flowers may be kept easily until Christmas, for like most cypripediums the flowers remain a long time in perfection, before and after being cut. But for the benefit of the plant it is not advisable to allow the flower to remain on longer than is absolutely necessary.

Nothing in commerce varies so much in price as do plants of the different species of cypripedium. The rarity of the variety or hybrid or of the species governs the price. The commoner kinds may be bought at from $2 to $25 each according to the size of the plant, whereas the price of a new species or a variety or a hybrid can only be known upon application. The highest recorded price ever paid for an orchid was secured from the late Mrs. Morgan, of New York, who bought a plant of Vanda Sanderiana for $2,000. That was some years ago. This variety is not so rare now, consequently not so costly.

The raising of orchids from seeds is one of the most fascinating pastimes that the enthusiastic amateur or professional can engage in. The raiser of the first orchid plant from seed died only about one year ago. This was John Dominy, who at the suggestion of a Doctor Harris, of Exeter, England, succeeded in hybridizing two species of cypripediums, namely, barbatum and villosum, and the result was what is now the well known hybrid C. Harrisianum. In my own experience it is much easier to effect a cross between two species and save the seed than it is to get the seed to germinate and to raise the young plants successfully. An innovation in the history of the orchid is the offering of the seed of some species, hybridized; most of it is between two distinct species of cypripedium.

The cattleya is one of the most fashionable orchid flowers in the cut flower line. It is large, at the same time one of the most beautiful of all flowers. The delicate coloring and the exquisite formations of the flowers commend themselves to even the most casual observer.

There are several varieties, flowering as they do at different seasons of the year, making it possible to have them nearly all the year round. C. Trianæ is perhaps the most popular because it comes into bloom at the very height of the fashionable season. C. Percivalliana is also well thought of on account of its coloring, though it blooms somewhat earlier than the last named. C. labiata, about which so much has been said and written recently, is believed to be an old species re-discovered. It is supposed to flower in the late fall or early winter. C. Mossiæ is an old favorite, with flowers very similar to the others mentioned, but it blooms at a season when flowers are not so fully appreciated as they are in the winter. Its season is spring and summer. Cattleyas give best satisfaction when grown in square baskets and suspended from the roof of the greenhouse.

Dendrobiums are also well known as orchids. D. nobile has been in cultivation a number of years. A very fine specimen of this orchid was exhibited at one of the spring shows of the Pennsylvania Horticultural Society in the early seventies by Mr. Alexander Newett, at that time gardener for Pratt McKean, Esq., of Germantown, now in business for himself at Chicago. There were hundreds of open flowers upon it at the time. It created quite a sensation, as it would to-day, if such an exhibit could be made. Dendrobium Wardianum, on account of its larger flowers and delicate coloring, is also a great favorite.

Coelogyne cristata is thought well of in many parts of the country, but so far it has not met with much favor in this city. I am informed that A. R. Smith, Esq., the Troy, N. Y., banker, is more successful in its cultivation than any other amateur or professional in America. His success is largely due, it is said, to his practice of growing this species outdoors under the shade of a large tree during the hottest part of the year.

The phalænopsis is one of the most difficult orchids to grow that we have. Whoever can grow this successfully can grow any other orchid in cultivation.

Odontoglossums are most beautiful, but they require a special structure in which to cultivate them with any hope of success. A lean to house facing due north has been found to be the most satisfactory. It also delights in frequent drenchings of cold water; special arrangements for the frequent distribution of this most necessary element in successful orchid culture is in most of the large establishments where orchids are one of the most prominent specialties.

I cannot close without urging upon those who have the necessary conveniences to grow at least a few orchids. Established plants are the best to commence with and it is better to obtain them direct from those who have made a study and a success of growing orchids, for otherwise the experiment might end in disappointment. The manner in which the orchids have been potted will be an object lesson which no amount of reading can convey. It is best in orchid culture, as in everything else to deserve success, and to be successful the first essential is to commence right.

Begonia Thurstonii.

This begonia is a cross between B. metallica and B. sanguinea, sharing the characteristics of both parents. When bedded on the north side of a dwelling or fence it does exceedingly well and promises to be very useful for bedding in such situations as well as for a pot plant. It originated with Mr. C. Thurston, Paterson, N. J., some five years ago, but it has only recently been offered to the trade in quantity. We present in this issue engravings from photographs of a pot plant and a bed of this begonia.

Color Tone in Chrysanthemums.

When we speak of "tone" in a picture, a room or a flower we mean the prevailing color we find there, which in the majority of cases we term "color effect." But there is quite a difference between *tone* and *effect*. We may often see color effects without tone. But never color tone without effect.

Now the peculiar prevailing color we find in flowers is characterized by numberless names, very few of which convey any definite, truthful idea to the person who hears such names.

For instance, I heard a young lady at the last chrysanthemum show in Boston refer to the flower called President Hyde, as a "real lemon yellow" color. Now, I could find half a dozen lemons with as many distinct tones of yellow, but beyond this the general aspect of lemon yellow as we are accustomed to think of it is an entirely different color from that which I saw myself in the particular flower she alluded to upon instant examination. So I should place little reliance upon names, when I find that those who use them are not fully acquainted with their limitations.

But to characterize the color of certain flowers by definite terms is a necessity, and it is my object here to describe the effect produced on my mind of certain color tones in chrysanthemums, as there are more confused and blending tones in these flowers than in any others I know of.

The impression of color tone in single flowers one receives at a flower show is somewhat distracting because there is so much to remember; and further, there are so many difficulties in the way of placing chrysanthemums together harmoniously for exhibition purposes, that the artist's



BED OF BEGONIA THURSTONII.

point of view, the only one considered here, must not be taken without the understanding that it is only expressed opinion not involving any rigid principle.

The grouping of chrysanthemums in an indiscriminating way will certainly destroy all good color tones. We should certainly be careful about this, as the chances of good effect in floral displays are mostly dependent upon these color tones. There is such a confusing number of chrysanthemums of different types and colors that it is difficult to choose which ones are best adapted for discussion. We will hope, however, that the varieties chosen will answer our purpose sufficiently well to help us on the way to something definite.

The Robert Bottomley and the Pelican are very far away from pure white. I can see various tones of yellow, green and brown in them. Their effect is creamy in color. They should never come in contact with the Empress of Japan, the Mrs. Alpheus Hardy or the Ethel, all of which are of a sufficiently pure white to injure any other white toned down with color.

Whatever color we should decide the Louis Boehmer to be we should guard that color from contact with the pure reddish orange of the Val d'Andorre, or the pink of the V. H. Hallock and the Lilian B. Bird. The toned æsthetic brownish, purplish pink of the Boehmer would be ruined by any bright, pure or positive color; all toned white flowers would be excellent companions for it.

I do not know whether we have yet learned the true value of æsthetic color like this in flowers, but it is sufficient to say that such color possesses a value and a place which can be substituted by nothing else; it is unique.

The Harry E. Widener and the Ralph Brocklebank seem to me of an almost pure yellow color, and it seems as though no other yellow colored flower ought to be suffered to approach them. White flowers with the daintiest touches of color would be their safest companions, for instance, the Orico or the Puritan.

The magnificent golden yellow of the W. H. Lincoln is a sufficiently positive color to warn off all æsthetic characters, and such powerful ones as the Cullingfordii, Mrs. Andrew Carnegie and the Edwin Lonsdale.

The V. H. Hallock under artificial light appears purely pink, and if the full value of its purity is to be retained it should never approach the Violet Rose, in whose startling and unsympathetic company I found it at the last chrysanthemum exhibition I attended.

The President Hyde possesses an "all over" tone of yellow color leaning decidedly toward the orange yellow. Its



BEGONIA THURSTONII.

splendid color has not a suggestion in it of the hard brilliancy of lemon yellow. Such other fine specimens of rich yellow color as the Neesima, Kioto, Golden Empress, Gloriosum and W. H. Lincoln should hardly be placed in each other's proximity, they can not help doing each other some damage; each one is sufficient in itself and its color tone should not suffer interference.

It is possible that a beautiful gradation of yellow toward orange can be accomplished by combining nearly all these flowers just named in one mass, but then the result desired does not require the accentuation of the beauty in each variety. Such flowers as the Ralph Brocklebank, Mrs. W. G. Weld, Jardin des Plantes, Golden Empress, Gold, Val d'Andorre and Lord Byron are well adapted for such purpose.

The Viviand-Morel is too clear and strong a pink under artificial light to be risked in any company but white and the most delicate tints. Its delightful pink should have the benefit of the most dainty surroundings. The Violet Rose, which I have seen in greatly differing strengths of color, needs the same care; no yellow or orange should approach it.

The Violet Tomlins, æsthetic in effect and purplish lake in tone of color, which is rendered opaque by the presence of white, is a flower which would look charming in a room with dull olive green hangings.

The Edwin Lonsdale, purplish lake in color, and the John Thorpe, of a soft plum color, are two flowers so reduced in tone that we are puzzled to know what may look best with them. They certainly require æsthetic surroundings, and a slaty-blue or dull heliotrope color in the hangings of the room they are intended to decorate would be quite harmonious in effect.

The M. Freeman is another æsthetic beauty, of a dull whitish pink color also reduced in tone. L'Angelus is nearly like it in tone, but of a whitish lake color. No deep yellow, red or orange should approach these two flowers.

The dainty little pompon called Bouquet, so like the Boehmer in color, but rather reminding one of a bunch of ruddy heliotrope, might readily accompany the Boehmer in room decorations. The contrast between these two flowers in size and character has a distinct artistic value.

The John Laing, brick red running into buffish yellow, is charming in color tone, but the deep rich carbuncle color of the Cullingfordii, which ought always to have the benefit of a strong artificial light, is no companion for the Laing.

The John Salter and the Edwin Molyneaux, the Mrs. Andrew Carnegie and the Mrs. Wheeler, all æsthetic in effect, are so rich in color when placed under strong light that it is a pity they should ever be seen under other conditions. So much depends on a concentration of light over them that one might mistakenly judge them theatrical in character; but it is not too much to say that the full value and beauty of color can never be seen away from strongest light, and there is a beauty we know of that can not stand such effulgence.

The white drawing room furnished in prevailing tints of ivory picked out with gold is the vantage ground of the æsthetic toned chrysanthemum. The Louis Boehmer belongs there, and the lady with brunette hair and simple directory gown of soft creamy white or pale brownish pink tint may wear the Boehmer chrysanthemum with the consciousness that no other flower can add so much to the artistic effect of her attire.

F. SCHUYLER MATHEWS.

Objects to Contractions.

Your correspondent S. Carew seems to take quite a philosophical view as to what we should call a chrysanthemum. I would like to remind him that this is a progressive age and I, for one, feel no desire to revert to the time of our grandmothers. If they were unable to find time to say chrysanthemum pure and simple, we, although living in an age of bustle, must not try to continue the error. We have now a Nomenclature Committee to help us in the right pronunciation of words and surely S. C. does not want to nullify their efforts. H. G.



Carnation Crops.

I have read with much interest the statements of De Witt Bros., which appeared in the issues of the AMERICAN FLORIST for February 4 and 25, in which those gentlemen show that they have succeeded in gathering during the months of last November, December and January, 16,218 flowers of Hinze's White carnations from 1,330 plants, which occupied a greenhouse surface of 698 square feet; and 10,548 flowers of Grace Wilder from 1,270 plants, occupying a surface of 862 feet, in the same time. Also in house No. 2, the side benches of which being planted with 1,120 Grace Wilder plants, occupying a greenhouse surface of about 759 square feet, yielded in the same three months 12,905 superior Grace Wilder flowers; or, in condensed form, 39,671 flowers were gathered of the two varieties from 3,720 plants which occupied a greenhouse surface of about 2,319 square feet.

These statements of successful carnation culture will always command deep interest from those engaged in this industry and I deeply regret that I have been unable to devote the same close personal attention to these matters as heretofore. Realizing the importance, however, of keeping such records, my foreman has faithfully carried out my wishes in this connection, and appended hereto is a statement submitted by him:

STATE OF NEW JERSEY, } ss.
COUNTY OF PASSAIC, }

Charles Akhurst appeared before me, and, being duly sworn, tes ified as follows: I am a gardener and florist by profession and trade, and for the last five years have been in the employ of Mr. H. E. Chitty, and for nearly the whole time have been foreman and had the supervision and ca e of his greenhouse establishment.

Early in September of last year (1891) I planted a center bench of Lizzie McGowan carnations, said bench being five and a half feet wide and one hundred and ten feet in length and containing two thousand, two hundred and forty plants of this variety. I also planted about ninety feet of the center bench in another house with one thousand, six hundred carnation plants of the same variety, said last named bench being of the same width as the first named bench.

Since acting as foreman for Mr. Chitty I have carefully kept records of all roses, carnation and calla flowers gathered, such records being daily entered upon a slate, which are carried and entered in a book kept for the purpose at the end of each month, and my records show that during November and December of last year and January and the first twenty-seven days of February of this year, sixty thousand, five hundred and fifty prime flowers of Lizzie McGowan carnation were gathered from the full bench and part of a bench planted with this variety, and during December, January and the present month fifty thousand cuttings have been taken from the same benches of Lizzie McGowan, twenty thousand of which have been taken during the present month of February. CHARLES AKHURST.

Sworn and subscribed the 29th day of February, A. D. 1892, before me, EUGENE EMLEY, Master in Chancery of New Jersey.

From the above statement it will be seen that 3,840 plants of Lizzie McGowan, occupying a bench surface of 1,100 feet, or considerably less than half the space occupied by the Messrs. De Witt's 3,720 plants, produced in 119 days, 30,879 more flowers than the Hinze's and Grace Wilders produced in 92 days. In other words, considering the space used, the product of Lizzie McGowan is fully double the product of the Hinze's and Wilders combined, without taking into account the 50,000 cuttings, which growers are losing no time in reaching out for. It seems to me if the Messrs. De Witt are so pleased with what they consider satisfactory results, that I have no reasonable cause for complaint.

H. E. CHITTY.

Paterson, New Jersey, Feb'y 29, '92.

WE HAVE received an unusually fine lot of carnation flowers from Mr. Fred Dorner, Lafayette, Ind. All were of very large size, fine form and beautiful, distinct colors, on good strong stems and with perfect calyxes. Of the named sorts, Mme. Diaz Albertina is a very light pink; Mrs. Elizabeth Reynolds, deep pink; Wm. Scott, Wilder pink; Spartan, deep pink; Blanche, white; and Richmond, deep rich pink, a beautiful and very taking color. There were also included flowers labelled by number. Of these No. 3 was a deep pink; No. 37, cream penciled carmine; No. 122, a fine flower of Chester Pride type. Another flower was enclosed as a curiosity. It was a rich deep scarlet of very large size and would have been a magnificent flower but for a badly bursted calyx. Mr. Dorner is certainly doing splendid work in the production of new carnations. The lot of blooms sent were decidedly the best ever received at this office.



The American Beauty Rose.

[Read by Mr. George Sawyer before the N. J. Social Florists' Club Feb'y 25.]

Before beginning to plant see that your houses are properly cleaned after the old plants and soil have been taken out. With a hoe or trowel scrape the benches thoroughly so as to remove all loose soil and fungus which has accumulated during the past season; then give a good sweeping and coat of fresh lime to your benches to destroy all insects. See that cobwebs and loose dirt under the stages have been removed. This being properly done the house is ready for refilling and planting.

I find that the best soil is composed of good, turfy loam, say five to seven parts soil with one part manure, and, if it be heavy, add a little sand accordingly, also a liberal sprinkling of bone. In filling the benches I would advise having not over three and a half or four inches of soil. The planting should be done not later than June 15. The plants should be placed about fifteen inches each way. Press the dirt firmly around each plant, leaving it in the shape of a saucer that the plants may be kept moist until root action has started, and syringe them both morning and afternoon on bright days.

From the time of planting out the ventilators should be left open until the nights become cool, when they must be closed at night, but give them plenty of air during the day, unless the weather be adverse. If the soil appears to be somewhat loose it is best to give it a light trampling that it may be in a firm condition for mulching. About five weeks after planting a light mulching of thoroughly rotted cow manure run through an inch sieve may be put on and I think that will be sufficient until January, when another light coat may be applied. In April, if the plants are somewhat exhausted and need a little nourishment, a light dressing of nitrate of soda, say one part soda to three parts sand well mixed, is the best stimulant for this time of the year. When the plants are two feet high it is time to commence tying, using two canes to each plant, and lacing the plant between the canes, instead of dividing the plant into two parts.

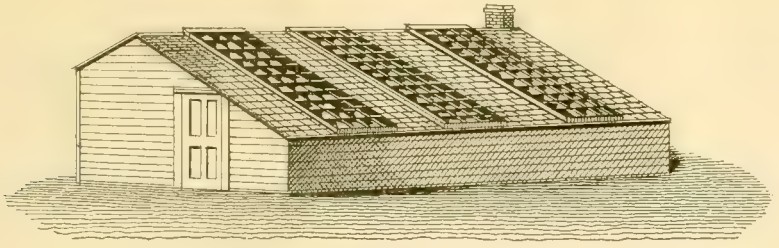
Now is the time, while the plants are likely to be in a healthy condition, to keep down all insects which trouble the American Beauty, such as greenfly, red spider and rose bug. I think the best preventive of greenfly is to carpet the walks with tobacco stems, strewing them also on the pipes, and, if the fly still appears, use small bunches of tobacco stems on the beds. Red spider may be kept down by syringing at all times when the weather permits. The worst pest of all is the rose bug and the only way to destroy them is by picking them off. They can be found generally in deformed leaves and at the top of the canes, if canes are used. A disease which is very troublesome to this rose is "the black spot." This is caused very often by the houses being damp at night. Syringing early enough in the day that the leaves may be dried off when night appears is a great help to prevent its spreading. If the houses have been syringed in the morning and the weather turns cloudy start your fires so as to keep your houses warm; by so doing you will be enabled to leave a small crack of air on to dry things up. The houses should be kept at a temperature of 56° to 58° on cold nights, 58° to 60° on mild nights, with 75° during the day in bright weather.

Eastern New York.

Your correspondent ran short of news items at home, and for the good of his health and let us hope for the benefit of a few of your readers, started out to see how a few of his friends in the oil region were prospering. The first stop, 40 miles from Buffalo, was made at Dunkirk, a little city that exists because the Brooks locomotive works are there.

Close to the railroad station is the establishment of Mrs. W. H. Edwards, who has four houses, each about 60x18. Two of the houses are devoted to roses and the remainder to miscellaneous stock to supply her local trade. The business Mrs. E. does is out of all proportion to the size of her houses. She is called on to fill orders from many surrounding towns and for a hundred miles up the railroad lines, her ability as a floral artist is well known. Across the street on Central avenue are the greenhouses of Mr. G. Gibson, doing a general business.

A ride by electric car three miles south on a country road brings us to the beautiful village of Fredonia, chiefly noted for its grapes, schools and wealthy residents. There I found three florist places. Miss Denton has one large house and grows a mixed collection of plants and flowers and does a good business. She also cultivates several acres of fine land for the raising of choice and select strains of flower seeds. While not attempting to grow a general collection the sorts she does harvest can be depended on as the purest of their kind. Mr. Wilbur, in the southwestern part of the town, has four well built houses, two of them used for early vegetables and the others for carnations. He has the finest bench of Silver



THE FIRST GREEHOUSE ERECTED IN CHICAGO.

Spray I have seen this winter, loaded with buds and flowers and excepting a little red spider through want of syringing, in perfect health. Mr. Wilbur grows several other varieties, but the money is in the Silver Spray. Mr. David Scott has very recently leased the houses of Mr. E. Beebe (one of Buffalo's former architects). He has two large well built houses adapted to grow anything and no doubt they will soon be well filled.

A sixteen mile ride on the Lake Shore railroad brought me to Westfield, now famous for its Keeley Cure institute lately located there. I conversed with several of the patients at the hotel and a bright intelligent lot of men they are. The "Cure" is spoken of in no joking way in Westfield. I learned there were no florists among the patients. Perhaps they can't afford it. Seventy-five dollars for three weeks besides hotel expenses is beyond the means of the average "health broken" florist. They go four times a day to the institute to receive "a shot" and spend the rest of the time as they choose.

But I didn't go there to write up or attend the gold cure. I went to see Mr. Gustavus Schoenfeldt, the well known florist of Westfield. His place is finely situated on the main street of the village, the old wagon road from Cleveland to Buffalo. Mr. Schoenfeldt has eight houses averaging 75x16 feet and all runnning to a central house. Detached from these is a violet house 100x12. Mr. S. makes a specialty of roses (hybrids as well as teas) and carnations, all looking well, but many other things are grown. In one of the houses are two large M. Niel roses planted out and trained over the paths, bearing immense crops of these rich old flowers. Mr. S. has for years been uniformly successful with violets, and was so this year till about the middle of January, when he met with trouble which sorely perplexed him. But he has discovered the cause. Down deep in the heart of his healthy fine foliaged plants are hundreds of greenfly. He has fumigated repeatedly, but the smoke don't reach them. The leaves are large and healthy and Mr. S. feels sure there is no other cause of failure and added that on a visit to Rochester, N. Y., a few days ago, he saw violets at several places with exactly the same trouble. Mr. Schoenfeldt has purchased six acres of land a little further out of town, has built a residence and will within two years remove the whole of his plant to his own place.

Before leaving this pretty and interesting locality allow me to say a few words about a great industry that many of your readers are strangers to. Everything here is grapes, all other crops are secondary. The grape growing region extends from Silver Creek, Erie Co., N. Y., to Harbor Creek, Pa., a distance of about 70 miles, with an average width of four miles along the south shore of Lake Erie. The acreage I did not ascertain, but there were over 1,000 car loads shipped from here last fall. Each car contains about 3,000 baskets. Only the damaged fruit is converted into wine. The producer receives about 1½ cents per pound. 95 per cent of all the grapes grown are the old reliable Concord. Old residents told me that in many years 2° below zero was the greatest freeze they had seen and seldom any frost till November.

From here I took the train for the oil towns, of which I would like to say something in your next. G. S.

The First Greenhouse in Chicago.

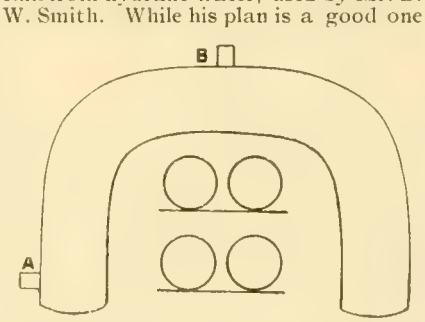
We present herewith an engraving of the first greenhouse erected in or around Chicago, from a drawing kindly furnished by Mr. John Goode, now the oldest living florist in that city.

This house was located at the northeast corner of Dearborn avenue and Division street, on the north side. Mr. Goode thinks it was built about 1835 or 1836, as it had been standing 9 or 10 years when he came to Chicago, in 1845. It was built and owned by a man by the name of Thomas. Mr. Goode cannot recollect the initials, but thinks his first name was Henry.

As seen in the engraving the roof is only partly of glass, three sash admitting light on the south side, the short span to the north containing no glass whatever. It is interesting to note that the three-quarter span style of roof for a greenhouse was in vogue as early as in the thirties.

Tempering Hydrant Water.

I noticed in the FLORIST for February 11 a description of a device for taking the chill from hydrant water, used by Mr. B. W. Smith. While his plan is a good one



and valuable, I think a better plan may be recommended, that will be available for both steam and hot water heating, and for those who use water from the hydrant or from elevated tanks.

My plan is to make a long saddle boiler of galvanized or light boiler iron that will arch over the heating pipes as shown in diagram. It can be made of sufficient capacity to hold 20 barrels of water, and this quantity will in a few hours become warm if over 4-inch hot water pipes. Connect at A with your supply pipe and draw off at B. Holding 20 barrels this will often serve you when your fire is out, and with steam heating you frequently wish to water on bright days when you need no steam heat in the houses. With this arrangement the water can not well become too hot and you can use up the whole 20 barrels, as of course the cold water coming in at the bottom will always keep the warm water at the top. C. B. W.

Boston.

The downward tendency in prices has been arrested and the overstock noted last week is not now apparent, the weather having been steadily cold and very stormy and not calculated to hasten the production of flowers.

There has been considerable funeral work going on and this, too, has aided in sending the price of white carnations back to $2 and $2.50 per 100. Good roses are also in short supply and bring $6 to $8 for average run of salable buds. Jacqs and hybrids are not plenty and as a rule but little can be said for the quality of those offered at present. Bulb stuff still moves slowly, but lily of the valley is selling much better than one week ago, and Harrisii lilies bring $8 per 100, the quantity coming in being much reduced.

Violets are too plenty, but as long as the weather remains wintry the quality will be good. There are a good many yellow English primroses coming in and they are very popular for corsage wear. They are put up in little bunches with a fringe of leaves in the same manner as violets and bring $1.50 per dozen bunches. Heath is quite plenty and of excellent quality. Asparagus has been very scarce but is now obtainable, although as yet rather soft and immature. The steady severity of the weather, being unexpected, makes the timing of Easter stuff somewhat of a problem.

Growers are not so sure now of some things as they were and some of those who were frightened by the lateness of the celebration this year begin to feel hopeful. The unusual weather has had a bad effect upon the prospects for the spring exhibition which opens at Horticultural Hall on March 22. Many of the bulbs intended for the show will not be in flower, and unless a warmer temperature should be experienced there will be great difficulty in moving azaleas and other large plants.

Jackson Dawson has been awarded a Certificate of Merit by the Mass. Horticultural Society for a new seedling rose, a hybrid between rugosa and Jacqueminot. It is regarded as the finest hardy single rose ever produced, the flower being very large and of a color rivaling if not excelling the Jacq. Habit robust like the rugosa.

Francis Brown Hayes, of Lexington, has had a beautiful solid silver cup made for a special prize to be offered through the Mass. Horticultural Society at the rhododendron show next June, for the best 12 varieties of hardy rhododendrons, 50 trusses. The vase is of graceful shape and will make a fine parlor ornament for the winner.

President W. H. Spooner gave a reception to the officers, committees and other members of the Mass. Horticultural Society at his new residence at Jamaica Plain on the evening of March 17. The occasion was informal and was highly enjoyed by the guests, Mr. Spooner proving himself to be a most hospitable host.

The garden committee of the Society

made a trip on Wednesday afternoon to the greenhouses of Mr. C. V. Whitten, where they inspected and admired the luxuriant display in the rose houses under Mr. Cotter's care. Mr. Whitten being unavoidably absent the entertainment of the visitors fell to Mr. Cotter's lot, which is equivalent to saying that it was well done.

On Saturday March 19 the same committee went on a similar errand to the greenhouses of Dr. C. G. Weld, at Brookline.

Mr. Finlayson, after ministering to the wants of the inner man, escorted the visitors through the greenhouses. The plants always look well here. Just now the cinerarias are in their full glory and are a sight worth seeing. The cyclamens are marvelous plants. No finer specimens could be imagined than many of them are. The show house is gay with mahernias, genistas, eriostemons and acacias in variety. A bed of fine Paisley pinks is just coming into bloom. The cattleyas, which were badly infected with the grub last year, are entirely free from the pest and are making healthy growths.

The essay before the Hort. Society on March 19 was by Mrs. F. A. Deane on the "Ethics of Flowers." Several members of the Executive Committee of the S. A. F. were heard to express the wish that Mr. Dan Long, of Buffalo, had been present. Mr. Welch listened intently to the lecture and is now well equipped to argue ethical points with Mr. Long, having obtained an indefinite "extension of time."

Mr. A. P. Calder exhibited some beautiful blooms of Anemone coronaria and was awarded a gratuity therefor.

Dr. Sereno Watson, the distinguished botanist and Curator of Harvard University Herbarium, died at Cambridge on March 9, aged 65 years. He was born at East Windsor Hill, Conn., and was a graduate of Yale College. His younger days were spent in the study and practice of medicine, all the time paying considerable attention to botany, to which in later years he gave his whole time and attention, and in the pursuit of which he traveled extensively over the North American Continent. Since 1870 he has passed most of his time at Cambridge in the study of North American Flora and has written many important botanical works separately and in conjunction with Prof. Asa Gray. On the death of Prof. Gray he became curator of the University herbarium and continued the editing of the unfinished "Synoptical Flora of North America." He was botanical editor of the earlier volumes of the Century Dictionary. His revision of Gray's Manual was issued two years ago.

The bowling club held its regular meeting on Wednesday evening at the Brookline street alleys. There were about 18 members present, and there is every indication that the newly formed organization will become very popular. Some very fair scores were made, although these alleys are far from good.

Philadelphia.

The monthly meeting of the Penna. Horticultural Society held March 15 was very interesting, the attendance being above the average. A great deal of interest was manifested in the coming spring show, which promises to exceed any of its predecessors. The carnation men are active and a very fine exhibition of these flowers is promised.

The feature of the evening was the paper on orchids prepared and read by Mr. Edwin Lonsdale. It was received with marked attention. A vote of thanks was given to him for his admirable essay, which was pronounced one of the best papers read before the society for a long time.

In addition to the entries for plants and flowers there are quite a few who will have exhibits of mushrooms. A number of private gardeners and florists are devoting a good deal of attention to the mushroom. There has been this season a ready sale for all that came to market, the wholesale price being 75 cents a pound.

Tomatoes are also forced by some and are said to be a paying crop, bringing about 50 cents a pound. There being demand for them at these prices even as late as May, they make a good crop to replace some early winter failure.

Although business has been very quiet the past week, prices have not fallen much. Carnations have lost another quarter of a cent and they are now 2 for the best. Other flowers are about the same as last week.

Mr. Burton is cutting some very fine Brunners and Mr. Heacock has another house of hybrids just in, which promise well.

C. D. Ball is replacing three of his oldest houses with new structures, which are being built of brick and iron in the most substantial mannner. They are all 100x23 and will contain his finest specimens when completed.

Mr. Harris will soon commence another addition to his new place. A range of seven houses is to be added after the spring rush is over. His stock of rubbers is expanding at such a rate that more room has to be provided for them. Palms of various kinds are also grown in large quantities, but the "glut" seems as far off as ever.

Mr. Westcott, chairman of club house committee, has secured some very pretty water colors, which now decorate the walls of the club room. Among them are two fine marine views, which suggest "Barnegat" and the good time coming next summer.

Longinette rolled up 226 in a match game Saturday night. Anderson has been under the weather lately, being confined to the house with something like quinsy. He is on the mend, however, and hopes to be about soon.

The item regarding a change in business location of Messrs. La Roche & Stahl proves to be incorrect. This firm will continue at the old stand.

Washington.

Jasminum nudiflorum is just coming into bloom. It is very beautiful when in flower, hanging in great masses over the terraces and curbings about the capital grounds and other parks. Visitors to Washington have often been delighted, then disappointed with this shrub, which, although so beautiful at times, is only an occasional gem, its extremely early flowering subjecting it to such danger from frost that it is only about one season out of three in which it is to be seen at its best.

The winter just passed has been a very severe one on all magnolia and other evergreen foliaged trees and shrubs. Alternate raining and freezing has disfigured them badly.

Mr. Smith calls attention to the power of extensive advertising as illustrated in the case of the Manettia bicolor, which has been grown in Washington for the past 37 years, but was comparatively unknown until recently, when it has sprung into great popularity and has become a veritable "people's plant."

Mr. Smith recommends highly Yucca gautemalensis as a decorative plant for florists' use in winter. It is very tough and stands handling and change of temperature well.

The roses at J. R. Freeman's houses are in splendid condition. Mermets, Wabans, Brides and Meteors all bear evidence of careful culture and generous feeding.

At Strauss & Co.'s there will be an immense cut of roses for Easter. The number of varieties grown here is very large, but Perle, Wootton and Mme. Pierre Guillot occupy the greater part of the extensive range of houses. The Perles are in full crop. The Guillot seems to be a great favorite with the Washington people, judging by the quantities of this variety which are disposed of daily at Strauss & Co.'s store.

Clark Bros. have a good stock of Asparagus plumosus in their houses. They grow the variety nana in preference to the true plumosus. They claim that it does not send up a long base stalk for several feet before breaking into foliage, as is the case with plumosus, and the fronds being smaller make more graceful strings for festooning.

They have a large stock of young Areca lutescens. These they grow on shelves close up to the glass, a method which they claim hastens the growth of the plant and at the same time keeps it stocky.

New York.

The state of the trade during the past ten days has caused a feeling of Lenten penance among the florists; business is extremely dull, flowers quite plentiful. Prices really compare quite favorably with those of previous years, especially in roses. American Beauty for example, though average flowers run from 10 to 40 cents, really fine blooms will bring 75, a pretty good price for the middle of March. Meteors have been a great success this season, but they are now being displaced by Jacqs; no other red rose ever really competes with this old favorite.

Daffodils are plentiful and very extensively used; they are always popular in the early spring. Lilium Harrisii is a positive drug; it was never more plentiful. It is a question whether it will be quite so plentiful just at Easter, though the sales at that season are so very large that it always takes a tremendous quantity to make any impression on the market.

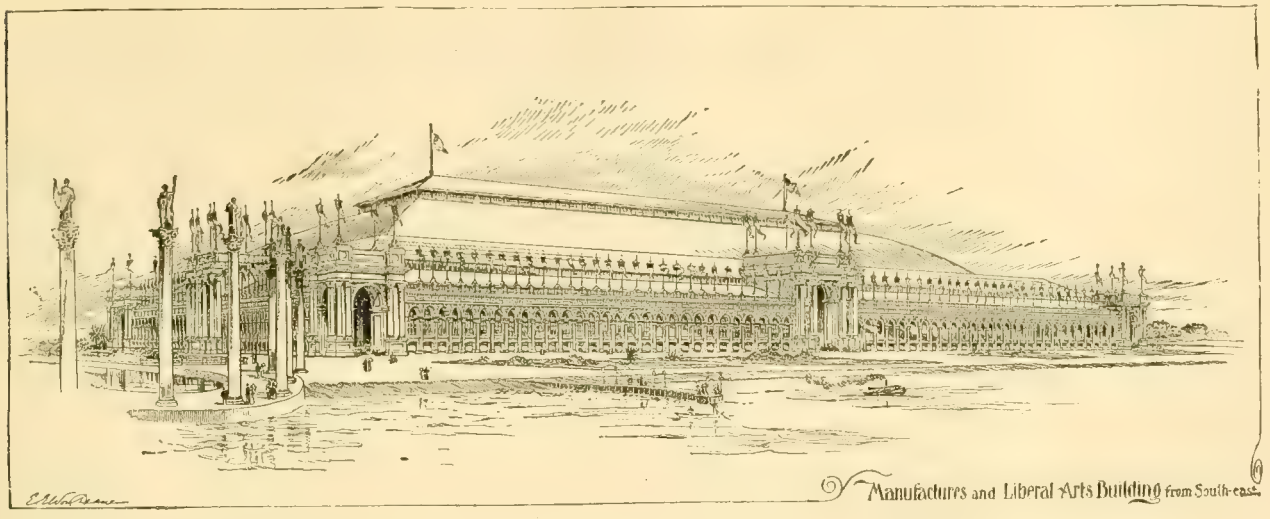
A good deal of genista is in full flower already; one florist's window was especially noticeable recently, being filled with a mass of this plant, great bushes of yellow bloom. Another attractive window had a carpet of cattleya, eucogyne and adiantum with a tall center vase of bougainvillea, odontoglossum and phalænopsis. Orchids are quite plentiful and much used.

Some extremely fine lilac was noted at Siebrecht & Wadley's; it is a new French variety with unusually large flowers.

Wm. Elliott held his first auction for the season March 18; hardy roses, shrubs etc. Things went very slowly, doubtless owing to the abominable weather, for the heavy snowfall and ensuing thaw fairly put New York afloat. Bad weather usually depresses a plant auction, and the same cause seriously affects the flower trade.

Mr. Samuel Henshaw, late of Thompson, Conn., has bought a home at Port Richmond, Staten Island, and intends to settle down there.

The March meeting of the New York



MANUFACTURES AND LIBERAL ARTS BUILDING, WORLD'S COLUMBIAN EXPOSITION

Florists' Club was very well attended. The club is now making a strong effort to secure suitable rooms for a permanent home. At present they are very seriously inconvenienced, not only at the regular meetings but also in showing proper courtesy to their many guests. Suitable quarters being secured they will then have a place in which to receive visiting committees from allied bodies; at present it is very difficult to get any settled place for such meetings.

Another matter discussed by the club was that most mischievous bill now before Congress prohibiting the transportation of plants suspected of disease or parasites. Men in the trade here, as everywhere else, recognize the absurdity, as well as injustice, of such a measure, which would practically prohibit the shipping trade. Indeed, a suburban grower might find it impossible to take a load of stuff into the city since the ferries would be practically closed to him; there is no end to the mischief that would be caused by a strict adherence to the law. A committee was appointed to make an organized protest against the bill.

Mr. Ed. Jansen was in London the past week and is now in Paris, where he will stay several weeks looking up the Easter trade.

The cold weather of last week was of immense value to growers of Easter stuff, and florists too.

Manufactures Building at the World's Fair.

Notable for its symmetrical proportions, the Manufactures and Liberal Arts Building is the mammoth structure of the Exposition. It measures 1,687 by 787 feet and covers nearly 31 acres, being the largest exposition building ever constructed. Within the building a gallery 50 feet wide extends around all four sides, and projecting from this are 86 smaller galleries, 12 feet wide, from which visitors may survey the vast array of exhibits and the busy scene below. The galleries are approached upon the main floor by 30 great staircases, the flights of which are 12 feet wide each. "Columbia avenue," 50 feet wide, extends through the mammoth building longitudinally, and an avenue of like width crosses it at right angles at the center. The main roof is of iron and glass and arches an area 385 by 1,400 feet, and has its ridge 150 feet from the ground. The building, including its galleries, has about 40 acres of floor space.

The building is in the Corinthian style of architecture, and in point of being severely classic excels nearly all of the other edifices. The long array of columns and arches, which its facades present, is relieved from monotony by very elaborate ornamentation. In this ornamentation female figures, symbolical of the various arts and sciences, play a conspicuous and very attractive part.

Toronto.

The Gardeners' and Florists' Association had a lively meeting on the 15th. inst., a good crowd being present. The chrysanthemum prize list was finally gone over and settled. It will be printed and sent out for the first time at once. Another copy is sent out shortly before the show takes place.

Botanic Gardens were also up for discussion, on a motion to appoint a committee to consider the best way to make the government take the matter into consideration. Mr. A. H. Ewing read a paper containing a plan for making a beginning. The honorable member for Hamilton seemed to think that the paper was a piratical production and that the idea of Botanic Gardens for the Province of Ontario originated in his "ambitious city;" in this he was undeceived by Mr. Vair who stated that the matter had been talked about in Toronto 20 years ago and at various times between then and now.

What this Association wants is an assurance from the government that they will do something towards establishing Botanic Gardens and in order to get this assurance it would be well if all the clubs in the Province combined; then united strength might accomplish something; singly, they will get nothing but promises and disappointments. Governments want votes, and will not concede anything unless they see a fair prospect of a good return.

The motion carried and the committee was formed. It will deliberate shortly and bring in a report to the next regular meeting.

Through the kindness of Alderman Hallam the Association will this evening (18th) be allowed to look over all the Horticultural works in the Public Library. It is reported that many very valuable books will be on view and a great treat is expected.

"Chrysantum" is not in it; it would be reduced to "tums" right away. "Chrysm" is ahead yet. E.

Baltimore.

"Tis an ill wind that blows nobody good," might well be said of the weather this week. Worse weather from a grower's standpoint it could scarcely have been, the few glimpses of sunshine only serving to heighten by contrast the howling melee of wind and snow and sleet that succeeded them and turned the streets into shallow rivers of slush. "Genuine St. Patricks day weather," said the old fellows, with a wise shake of the head; though it may be questioned whether the saint ever experienced anything remotely resembling it. Bad as it was though, it made trade appreciably better in the stores on market days, and that means pretty much all six, for there is a market somewhere in town every day, and, when the weather is fine the stalls of flowers and plants are so tempting in their color and perfume that few flower lovers can resist the temptation to get a bunch of violets or pansies or a little plant or bouquet as they go by getting their marketing. If the weather is bad the stalls cannot be used and the buyer gets what he wants at a store. To be sure in many cases he does not get flowers at all, but there is enough to make the difference between bad and fine market days very conspicuous in the sales of stores that are at all near the market.

If "there's a sweet little cherub that sits up aloft" to look out for poor Jack, there must be another to look out for the poor florist man, for what else could put it into people's heads to have such and so many uses for flowers during this penitential season. Even St. Patrick was considerate enough to have his day come in just when most needed, and when any other banquet and jollification except one in honor of a national saint would be inexcusable. As it was our Irish-American citizens celebrated the day in fine style, by wearing real or imitation shamrocks through the day and by gathering to a grand banquet at night, where, though the decoration was not very elaborate, a great deal of flowers and smilax were used on the tables, and at least one florist's heart was made lighter and his pocket heavier as a result.

Smilax continues very scarce, in fact there seems to be a sharp demand for not only that but everything else offered. Prices remain the same except that violets and narcissus are lower, and when the sun peeps out the market will probably be glutted with both.

MACK.

Cincinnati.

On March 12 was held the 41st meeting of the Cincinnati Florists' Society. This was a well attended meeting, at which there were some new members elected and other applications for membership received. The principal business of the meeting was the nomination and election of a special committee to take charge of the coming chrysanthemum exhibition. This committee is composed of Messrs. Albert McCullough, chairman; H. L. Sunderbruch and Frank Huntsman, and through the efforts of these gentlemen it was found necessary to call a mass meeting of the florists of Cincinnati and vicinity. The call was issued and the meeting called to order by the president of the Florists' Society at the establishment of H. L. Sunderbruch the evening of March 19. Mr. McCullough, as chairman of said committee, stated that they had met several times during the week and had made progress enough to know that the exhibition must and would be a grand success and that the exhibition would be conducted under the auspices of the Cincinnati Florists' Society. Also that the proceeds be divided between two charitable institutions, these institutions to interest their friends and the public, thereby insuring a large attendance and general interest. The official premium list will be issued the coming week, and the aggregate will amount to not less than $2,000. To give a little idea of what we intend doing will state that we will offer as first premium for best seedling chrysanthemum, $100 and a gold medal; for the best 50 varieties, cut blooms, not less than three of a kind, 1st $150, 2nd and 3rd in proportion. The money to pay these premiums is already guaranteed, the florists themselves giving a very handsome starter. Everybody has taken an interest. Our growers are getting a rapid move on themselves and we can already see one of the grandest exhibitions of chrysanthemums and cut flowers in general that has ever graced the halls of any western city. We trust that our florist friends throughout the country will not be backward in coming forward and securing one of our premium lists and that they will also exhibit in competition with our home growers. "Of course our home growers are very hard to compete against," but our premiums are open to the world and we trust to see many foreign entries upon our books, guaranteeing that they shall receive the same fair and square treatment as our boys at home.

At this meeting the boys were treated to a very tempting spread, consisting of all the delicacies of the season, which was served in grand style, and when the motion was made that we take a short recess for refreshments, it was unanimously carried.

Mr. Bock of Hamilton, O., had on exhibition a very handsome rose, a sport from the Perle, and which certainly is an acquisition.

Mr. Henry Schwartz also had on exhibition several seedling carnations which were magnificent specimens, consisting of white, red and pink shades. These will also be heard from later.

Trade during Lent has been quiet and is felt considerably by our home florists. The wholesale trade is keeping up nicely and the prospects for Easter are very flattering. Let me once more impress upon our florist friends throughout the country that we want you with us in November next.

The adjacent property owners who were objecting to the erection of the Jabez Elliott flower market in accordance with the Holroyd bequest have been denied the injunction prayed for and the building will now be erected. The plans provide for headquarters for the Florists' Society.

E. G. GILLETT, Sec'y.

Buffalo.

There are just enough giddy folks in Buffalo to keep small entertainments and weddings going even if it is Lent, and business has not by any means fallen flat with that "thud" that is reported from some larger cities. The funeral this week of our ex-Chief of Police was the occasion for a large and costly display of designs. Quite a different event was the two nights' stand of Sarah Bernhardt at the Star Theater. Both evenings she was the recipient of many fine floral pieces, even if the "divine Sarah" did have to play to half empty houses. Last week one of our largest and most popular dry goods stores celebrated the 25th anniversary of their start in Buffalo, and a most elaborate decoration they made with palms and flowering plants on the occasion. These various events keep the business moving. Some fine plants of Azalea mollis are forced here this spring. They are very attractive and sell well, but I doubt if they are as good a house plant as A. indica.

Mr. McMillan, our park superintendent, is busy raising his own stock for the park beds this year. In purchasing several hundred acres of land for an extension of the park system to be known as the "South Parks," they acquired several small greenhouse establishments. In the past the bedding plants used in the park were purchased from different growers who will now lose a good order. But the city demands more flowers in her fine park, and it is hoped by many citizens that Mr. McMillan will in the future give us more "landscape gardening in high colors."

I have thought often lately during the month of freeze and thaw—zero at 5 o'clock in the morning, beautiful bright day following, perhaps up to the freezing point at noon—that a good question for the box at our annual meeting would be how to make a greenhouse door that would open and shut during such weather without a crowbar, a kick, salt or profanity. I have not yet seen a door that filled the bill, and thousands of latches and locks are broken every winter, besides the commandment.

Some of my neighbors may be building soon and I would like to call their attention to the article by Mr. J. D. Carmody. He says "on houses running north and south the ventilators should be located on the west side, but if east and west place them on the north side." With great respect for Mr. Carmody's experience I must say that his instructions will never do for Buffalo; 25 days out of 30 our wind is from the west and north, so we want the ventilators on the east and south; and what is more, many days the sun shines brightly with us while yet we may have 15 to 20 degrees of frost, the north and west side remaining frozen, and if the ventilation was situated as Mr. C. advocates, on such days we should not be able to ventilate at all. In both styles of houses my ventilators are the exact opposite of Mr. Carmody's theory and I am confident it is the thing for Buffalo or its latitude.

G. S.

St. Louis.

These are dull times for the suburban florist; his only mainstay is the never failing funeral orders. This is not the case with the down-town man, who does so much "passing" trade that the almost general inactivity usually felt at this time does not affect him much. There is promise of a good stock of Easter stuff, especially Easter lilies.

Mr. Connon is growing some extra fine Baroness Rothschilds. Some of the finest pansies in this city can be found growing at J. Van Camperhoudt's place on St. Louis avenue. Mr. R. Tesson is sending in some more of his wonderful Beauties.

Mr. R. Frow favored your correspondent with his first Jacq. He is just getting over a very severe attack of La Grippe. Mr. Frow was the first florist in this city to use a water tank for forcing valley. It is an iron tank, in size the same as the forcing frame under which it is placed. The water is heated by steam night and morning until it reaches 90°. This very simple plan has been used by him for four years and he is more than satisfied with its efficiency.

Sanders & Beneke filled four diamond shaped baskets with pansies and pink roses for a diamond wedding last week.

W. A. Hanft & Co. say that the statement that they have abandoned the wholesale for the retail business is incorrect and that they are still wholesalers.

J. W. D.

Chicago.

There are rumors of many changes among the florists on Wabash Avenue May 1. Rents have been going skywards of late and some of the figures named by landlords are "out of sight" as far as florists are concerned. Only those with long leases are apt to hold forth at their old locations.

Among recent visitors to the city were Harry Baversdorfer, Philadelphia; J. L. Russel, Denver; Harry Balsley, Detroit; G. Kruyff, Sassenheim, Holland.

Mr. John Lane starts soon for Southern California where he will remain for an indefinite period in search of health.

Wholesaling Cut Flowers.

Under the title "A New Departure" the Wisconsin Flower Exchange, Milwaukee, Wis., has issued a circular reviewing the difficulties attendant upon the effort to do exact justice to both consignor and customer and proposing to in future adopt the following plan:

Now we propose to adopt a plan which will put the retail florist and the fakir on the same footing, which will, of course, starve out the fakir and enable the grower to feel the pulse of the market daily. It is quite simple. After March 1 we will have a blackboard in our office quoting all such flowers as we receive. The price will be made each day at 2 p. m., which will hold good for 24 hours. It will be our aim to regulate prices so as to make supply and demand even. If flowers sell out clean before 12 o'clock, we will put them up a notch for next day; if there is a surplus, lower a trifle. Cards will be sent daily to all our growers and such florists who wish to have them, so that they can see every day how matters stand. We know that this will have the effect of keeping hundreds of flowers out of the waste barrel and putting them into the florist's window, where they will advertise and help create a demand, which in the long run, helps all parties concerned excepting the fakir, unless he rents a store and goes at it like a good citizen. It is simply regulating the price daily according to the supply and demand, which places the burden of fluctuation on the *weather* and the *public*.

News Notes.

SHARON, TENN.—A horticultural society was recently organized here.

MILWAUKEE.—The Wisconsin Flower Exchange has increased its capital stock to $3,000.

DENVER.—C. R. Gallup has returned from a trip to New Orleans where he "took in" the Mardi Gras festivities.

COLUMBUS, O.—The February meeting of the Columbus Hort. Society was devoted almost entirely to floriculture. Some very interesting and valuable papers were read.

ZANESVILLE, O.—J. B. Wilson has closed the sale of a portion of the Koethen greenhouse property on Putnam avenue for A. V. Smith to Julius Frank. Consideration $2,500.

SPRINGFIELD, MASS.—Mr. H. Grout will add another new house, 100x54, ¾ span, for carnations the coming summer. Grace Wilder does better with him than any other carnation he grows.

SANTA BARBARA, CAL.—Preparations are being made for a mammoth floral carnival April 19 to 24. There is talk of running special trains from Boston, New York and Philadelphia direct to this city for the occasion.

MINNEAPOLIS.—The Minnesota State Horticultural Society was incorporated March 14. The society recently celebrated its 25th birthday. The "Minneapolis Lawn Mowing and Garden Decorating Co." is the name of a new organization.

MADISON, WIS.—At the annual meeting held here the State Horticultural Society elected the following officers: President, M. A. Thayer, Sparta; vice-president, L. G. Kellogg, Ripon; secretary, B. S. Hoxie, Evansville; treasurer, Mrs. Vie H. Campbell, Evansville; corresponding secretary, Carl H. Potter, Madison.

SYRACUSE, N. Y.—Ex-Alderman P. R. Quinlan, the florist, has been elected city treasurer. The office is worth $7,000 a year and the term is for three years. Mr. Quinlan furnished bonds in the sum of $500,000. His many friends are congratulating him upon his success. There are not many florists who strike oil like this.

COUNCIL BLUFFS, IA.—W. H. Foster, the well known florist, mysteriously disappeared about two weeks ago and has not been heard from since. He left the house one evening to go to the greenhouses and that was the last seen of him. He had been a resident of this city for 30 years. L. A. Casper is on a trip to Denver and Salt Lake City.

BUCKSPORT, ME.—There is a good story going the rounds at the expense of Fred Moses, the florist. It seems that in a Bangor Sunday school recently a little girl asked her teacher where the ten commandments came from. Her teacher said Moses gave them to the Jews. "Oh, I didn't know Moses gave them," said the child, "I know him, he sells flowers."

GERMANTOWN, PA.—The display of plants and flowers at the meeting of the Germantown Horticultural Society on March 10 was the largest of the season. An interesting address was delivered by Prof. Thos. Meehan. Premiums and gratuities were awarded for azaleas to Andrew Muldoon; for cinerarias to Matthew Braeken, Albert Woltemate, Frank Smith and M. Walsh; for hyacinths to M. Sammon; for cattleyas to John Kirby; for foliage plants to John Brown; and for collection of orchids to A. Woltemate.

SAN FRANCISCO.—At the semi-monthly meeting of the Florists' Club of California March 11 most of the evening was devoted to the discussion of California's floral exhibit at the World's Fair. It was the general opinion of those present that no attempt should be made by California to compete with the Eastern States in a general floral display, owing to our great distance from Chicago and the shortness of the time for preparation. The proposition to exhibit native plants, trees and bulbs was, however, heartily indorsed and methods of preparation and transportation were discussed at length. In cut flowers it was the opinion of the club that with properly constructed refrigerator cars violets, carnations, calla lilies, sweet peas, tuberoses, gladiolus, etc. could be safely transported. An election of officers will take place at the meeting to be held on March 25th.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By experienced gardener, to take charge of private place: married; best of references. H R, 6039 South Park Court, Chicago.

SITUATION WANTED—By married man, aged 28, as gardener, private place preferred; references good from last place where I worked 5 years. Address C L, care American Florist.

SITUATION WANTED—By thorough practical English gardener, on private or commercial place, is well up in landscape work. Highest references. F. PRIDEAU, 2½ Melrose St, Lawrence Mass.

SITUATION WANTED—By a German gardener and florist, on a private place; have had 25 years experience in the business, 9 of which in this country. Address WM. WIGGERHAUS, care Mrs. C. Bruck, 1743 York Place, Chicago.

SITUATION WANTED—By a first class gardener, as manager on large private place; have 14 years experience in all the branches of the horticultural trade; best of references from leading places of Europe and this country; married, no children. Address H C, care of Vogt, 30 City Market, St. Paul.

SITUATION WANTED—By an A 1 all round florist and gardener, as foreman, age 33, single; wages $75 per month; no fossilized places need reply. ALPHA, care American Florist.

SITUATION WANTED—By a first class florist, 25 years of age; excellent knowledge in growing roses, carnations, cut flowers, propagating all kinds of forcing stuff; well up in design work and decorations; west and south preferred. W E, Salt Lake City, Utah.

SITUATION WANTED—In private or commercial greenhouse establishment, by young man, 27, single, English, thoroughly understands the florist business in all branches, orchids, ferns and palms specialty; can furnish excellent references; 15 years in business; nothing but good place wanted. L J, care American Florist.

WANTED—Not later than April 15, a good all round single man; give references and state wages. Box 94, Morrison, Ill.

WANTED—To lease or buy several greenhouses, some ground, with or without dwelling, near good market. W J, 95 Wakeman Ave, Newark, N. J.

WANTED—A good reliable man for general greenhouse work. Give references and state wages expected. ALMA S. PATTERSON, Fort Scott, Kan.

WANTED—Florist for all kinds of greenhouse work; married man preferred; wages $40 per month. W. W. GREEN & SON, Watertown, N. Y.

WANTED—A good, reliable florist for all kinds of greenhouse work—married preferred. Wages $40.00 per month. Address REFERENCE, P. O. Box 84, Indianapolis, Ind.

WANTED—A good mechanical florist, as we are building a large plant; married or single; $35 per calendar month and board. ANCHORAGE ROSE CO., Anchorage, Ky.

WANTED—Gardener for private place. Must thoroughly understand flowers and laying out grounds. Married man preferred. References required. 552 Dearborn Ave., Chicago.

WANTED—Good man for general greenhouse work on commercial place; experienced young man preferred. Address, stating age, experience, wages desired etc., etc., ASSISTANT, P. O. Box 592, Cincinnati, Ohio.

WANTED—Young man, single, to work in flower garden, must be sober, honest and competent, to sell flowers and plants; state wages wanted. Address C. F. WEEKS, Hot Springs, Ark.

WANTED—To purchase second hand Hitchings boiler in good condition, either No 17 or 19; also 3,000 feet of 4-inch pipe. Address giving lowest cash price. R. H. SANBORN, Geneva, Ill.

WANTED—All florists, seedsmen and nurserymen to send me at once their catalogues, trade lists and all gratuitous printed matter in this line. Gladioli lists especially desired. ALFRED E. BAKER, Box 2672, West Chester, Pa.

WANTED—A good rose grower who has had experience in growing other stuff; must be honest, sober and respectable; best of reference required. Address stating wages wanted. I. W. & T. W. WOOD, Chase, Allegheny Co., Pa.

WANTED—Florist, single man as assistant, for all kinds of greenhouse work. Size of place 20,000 square feet of glass, for roses, carnations, and general florist stock. Cut flower store connected with greenhouses. CHAS. FRUHH, E. Saginaw, Mich.

WANTED—Immediately, a sober, reliable man to assist in greenhouse work, single preferred; must speak English, wages $20 per month with board, steady employment to right man with prospect of a rise. THOMAS GORDON, Mt. Clemens, Mich.

WANTED—A young man as salesman for a Floral department in a large dry goods store. Hours 8 to 6 and no Sunday work. Must have had experience in design work and decorating. Apply by letter giving particulars and reference to, BROWN, THOMSON & CO., Hartford, Ct.

WANTED—About April 15, young, single man who can grow roses, carnations, mums, etc. for cut flowers, and who can help build and fit up new greenhouses. Must board with employer. State wages and give references. GEO. A. RACKHAM, 934 Gratiot Ave., Detroit, Mich.

FOR SALE—At a bargain, a florist's business in a thriving city near St Paul. Proof profits for 1891 over $1,300. For particulars address SELLER, care American Florist.

FOR SALE—Small greenhouse attached to dwelling house. Everything in good condition, and room for extension if desired. Will sell entire property. Address MRS. Z. M. CHURCH, 219 Terrace St., Janesville, Wis.

FOR SALE—Lot 70x170 ft. with 8 room house, plant of four greenhouses, with good spring stock, fine local trade. If combined with nursery a splendid opening. Less than 7 miles from heart of Chicago. Price $6,200. Address Box 543, Austin, Ill.

WANTED.

Landscape gardener for summer season. Must be competent to lay out new work. Single man preferred. Address, with references and experience had, to

H. J. BROOKS, Supt.
ELGIN, ILL.

FOR SALE.

Nine Green Houses containing about 10,000 feet of glass, stocked with carnations and heated by steam. Also grapery 80 feet long, recently built; about 30 acres of choice land, abundance of fruit of all kinds, large commodious house containing 15 rooms, including bath room, a new barn and necessary out-buildings, within 5 miles of Philadelphia and one mile from station. Will be sold on account of ill-health. Address I. LARKIN, Toughkenamon, Chester Co., Pa.

FOR SALE OR RENT.

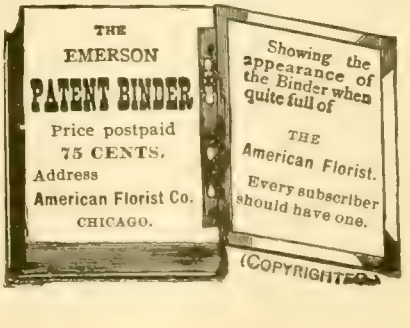
Greenhouse property on East 14th St. very reasonable terms. 5,000 square feet of glass, mostly double thick. Houses well stocked with plants for spring sales. Splendid cut flower trade all the year. One house early lettuce, radishes, etc., nicely under way for spring trade. Steam and water heating. Five acres of land mostly set to grapes, berries, apples, etc., in good bearing condition. Dwelling house, barn and other outbuildings. Fifteen minutes from postoffice. Best shipping point and best location in the state. No other greenhouse within 45 miles. A good opportunity to make money. Everything goes at a bargain. Possession any time.

W. J. BIGGAR, FREMONT, NEB.

BOILER FOR SALE.

In good condition, 4½ ft. long, 4 ft wide, 17 3-in. flues. Will heat 1,500 feet of pipe.

WISCONSIN FLOWER EXCHANGE,
131 Mason Street, MILWAUKEE, WIS.



March Chrysanthemums.

Great, handsome blooms, six inches across and perfect in every respect are not very often seen in March, but two blooms sent us by Mr. J. A. Newby, Logansport, Ind., meet the above description.

Mr. Newby writes: "I send you two flowers of Chrysanthemum Alice Newby. The plant is a seedling grown from seed received from J. C. Vaughan last spring; it was planted out in field, and with a lot of others lifted along in the summer (to keep them from dying from the drought) and placed on bench in greenhouse in common soil, and no care whatever given looking to the production of specially large blooms. The plant grew bushy, about 18 inches high, and bore 32 flowers, none less than 5 inches across, in color a pure, waxy white, and lasting in good condition for a month. The first flowers were ready to cut November 10.

"I had topped the seedlings in early summer and raised some plants from the trimmings, two being from the plant noted. They were kept in pots, bloomed in November and stood in a carnation house for stock, where to my surprise they continued all winter to grow and throw crops of flowers like those I send. The carnation house is run very cool—from 40° to 45°—and the flowers when left to develop in that temperature came heavily shaded with pink. You will notice that those sent show quite pink, and they are much nearer white than they were a week ago. I brought the plant into more heat to see what effect the change would have."

ROSES.

A Chance to Triple your Money.

NOW READY. (Safe Arrival Guaranteed.)

50,000 ROSES, from 2-in. pots, $3 per 100; $30 per 1000.

Plant in 3 inch pots, and they will bring you from 10c to 15c each readily.

50,000 ROSES, from 3-in. pots, $5 per 100; $50 per 1000.

Plant in 4 inch pots and they sell readily from 20c to 25c each.

N. B.—Our stock is not forced nor are the plants long and drawn, but have an abundance of leaves and roots.

Varieties you can select from by the 100 or 1000, provided one or the other sorts is not sold:

Agrippina,
Archduke Charles,
Aline Sisley,
Archduchess M. Immaculata
Bon Silene,
Chas. Rovolli,
Comt. de Labarthe (D. de Brabrant),
Catherine Mermet,
Coquette de Lyon,
Hermosa,
Etoile de Lyon,
Gloire de Dijon,
Jules Finger,
La France,
Lady Washington,
Louis Phillipe,
Marie Guillot,
Malmaison,
Marie Van Houtte,
Miss Ethel Brownlow,
Mme Caroline Kuster,
Marechal Niel,
Mme. de Watteville,
Mme. Pauline Labonte,
Mme. Brett,
Mme. Abel Carriere (M. Noisette),
Mme. Jos. Schwartz,
Mme Laur Marring, (pure new Bengal),
Ophelia
Perle des Jardins,
Queens Scarlet,
Rubens,
Suzanne Blanchet,
Sombreuil,
The Bride,
Reine Olga,
Pink Daily,
Nic de Wautier,
Waban.

We also have **50,000 HYBRID ROSES**, strong, 2-inch pots in 25 best leading sorts, $5 per 100; $50 per 1000.

20,000 4-INCH POT ROSES, $10 to $20 per 100 according to variety and quality.

POT ROSES, in bud and bloom, $20 to $25 per 100.

Wholesale and Retail Catalogue upon application. Lists cheerfully priced and samples mailed if desired.

FOR EVERYTHING IN THE FLORIST LINE.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.
Mention American Florist.

SENSATIONAL NEW ROSE OF 1892.

"This is the most beautiful pink rose known."—JOHN N. MAY, M. A. HUNT.

BRIDESMAID nee THE HUGH.

After consulting a number of the leading rose growers and retailers, I have decided to change the name of THE HUGH as above, and henceforth it will be known only as BRIDESMAID.

"The consort of The Bride."—*Littlejohn.*

Perfect in growth and behavior.

From 2-inch pots.				From 4-inch pots.	
12 plants	$ 0.00	250 plants	$ 90.00	1 plant	$ 1.50
50 plants	25 00	500 plants	150.00	12 plants	15 00
100 plants	40 00	1000 plants	240.00	25 plants	25 00
				50 plants	40 00
				100 plants	75 00

☞ Circulars on application.

FRANK L. MOORE, Chatham, New Jersey.

ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting, including two New Grand Bedding varieties:

FRANCES B. HAYES, HYBRID BOURBON. **AND OAKMONT,** HYBRID REMONTANT.

Extra fine Selected Stock for the Trade.

JOHN N. MAY, Summit, N. J.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

ROSES.

From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and Duchess of Albany, at $5.00 per 100; Meteor, at $6.00 per 100; American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

CHRYSANTHEMUMS,
leading varieties, 2½-inch pots, $5 per 100.

We are headquarters for the Meteor and Climbing Perle des Jardins.
ALL FINE HEALTHY STOCK.

JOHN HENDERSON CO.,
Flushing, N. Y.
Mention American Florist.

ROSES.

A very large stock of young Roses of the leading bedding and forcing varieties. Also large stock of same in 5 and 6-inch pots.

The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

Trade list mailed on application.

JACOB SCHULZ,
Louisville, Ky.

ROSA CANINA STOCKS

SCHULTHEIS BROS.,
STEINFURTH, NAUHEIM, HESSE, GER.

1000 extra choice, 3ors, 1 year seedlings.
10,000 plants, extra choice, 2ors, 1 year seedlings.
1000 plants, 1st choice, straw thick, 12s, 1 yr. seedlings.
10,000 plants, 1st choice, straw thick, 11ss, 1 yr. "
Cash with order. Send via Bremen Loyds.

SPECIAL OFFER. Per 100

Var. Rose Geraniums, 2½ inch	$ 5 00
Begonia Manicata aurea, 2½-inch	10 00
Begonia Rex, assorted	4.00
Bouvardia Elegans and Davisonii, root cuttings from flats	1 00

JOS. E. BONSALL, & SON, Salem, O.

MANETTI ROSE STOCKS.

A fine lot for sale cheap! $2.00 per 100; $15.00 per 1000; 5,000 for $60.00.

N. B.—Send for our Special List of young stock for transplanting.

W. S. LITTLE & CO.,
Rochester, N. Y.
Mention American Florist.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

HARDY ROSES

(For Spring Planting.)

The largest stock in America. | NEWEST Varieties. FINEST PLANTS.

New Illustrated Catalogue FREE. **ELLWANGER & BARRY,** Mt. Hope Nurseries, Rochester, N. Y.

ROSES.

The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100, Waban, $6 00; Duchess of Albany, and Meteor, $5 00 per 100; La France, Bride, Sunset, $5.00 per 100; Perle, Mermet, $4 00; Bennett, $3 00 per 100.

Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

C. A. SMITH FLORAL CO.,
77 South Seventh St. Minneapolis, Minn.

CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "DORINDA," a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

R. T. LOMBARD,
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FIRE YOUR ORDERS IN FOR AURORA

And other stock. I have the cleanest, healthiest cuttings I have ever had, mostly plants established in soil, at the same price as rooted cuttings in sand.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

PURITAN.
NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:

Rooted Cuttings.....$8 per 100; $70 per 1000.
From 2¼-inch pots, $12 per 100; $100 per 1000.

Send for catalogue with full description of this and other varieties.

WOOD BROTHERS, Fishkill, N. Y.

50,000
ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.

Also an unlimited quantity of pips of the above varieties. Send for price list.

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CARNATIONS

Standard Varieties and Novelties.
Send for Price List.

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SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN, besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

WHY NOT GROW THE BEST? CARNATIONS,

VERBENAS, DAHLIAS, CHRYSANTHEMUMS, HYDRANGEAS, COLEUS, ETC.

Illustrated catalogue of rooted cuttings and plants mailed on application.

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The beautiful PINK CARNATION NELLIE LEWIS our Specialty.

CARNATIONS.

Send for trade list of ROOTED CUTTINGS.

J. J. STYER, CONCORDVILLE, PA

Always mention the American Florist when writing to advertisers.

ROOTED CUTTINGS.

For March trade I have prepared large quantities of Carnations, Lizzie McGowan, Mrs. Fisher, L. L. Lamborn, Hector, Grace Wilder, Christmas, Anna Webb and others.

Also a very choice assortment of **COLEUS.** LANCASTER BEAUTY is the finest novelty in Verbenas ever offered; entirely distinct from all others. It sells at sight and no florist can afford not getting it. Perfectly clean well rooted cuttings, $2.00 per 100. I have complete control of the stock, which is limited.

SMILAX AND PANSY season is soon here and I am headquarters for choice stock at low prices.

FRENCH CANNA.

Choice assortment, my selection, $5.00 per 100.

SEND FOR COMPLETE LIST. SATISFACTION ASSURED.

L. B. 338. **ALBERT M. HERR, LANCASTER, PA.**

CARNATIONS.
Finest NOVELTIES of the year, and best Commercial varieties.

COLEUS. Best assortment in the country. All the good Bedders.

GERANIUMS are all sold for this month. will have some later.

New Fancy Coleus "JOHN RALPH" is a gem. Pot plants, six for $1.00.

GET MY LIST BEFORE YOU PURCHASE.

ALEX. McBRIDE, Alplaus, N. Y.

ROOTED CUTTINGS ONLY.

ROOTED CARNATION CUTTINGS.

NOW READY. UNSURPASSED IN QUALITY.

Golden Gate, grandest new pure yellow; J. R. Freeman, fragrant crimson scarlet; Constancy, glowing bright scarlet; $3.00 per 100; $25.00 per 1000. We have a fine stock of these.

Wm. F. Dreer, magnificent fringed rose pink; Nellie Lewis, light pink streaked with darker hue; $3 00 per 100; $25.00 per 1000.

IMPROVED Grace Wilder, the standard pink shade; $2.00 per 100; $15.00 per 1000.

Price of all other standard varieties on application. For well established plants from small pots see illustrated catalogue, mailed free.

Best home-grown Double Excelsior Pearl Tuberose bulbs, $8.00 per 1000 by express.

CHAS. T. STARR, Avondale, Chester Co., Pa.

ROOTED CARNATION CUTTINGS.

(From Prize Winning Stock.)

Portia, Dawn, Swayne, Mrs. Fisher, Grace Wilder, $1.50 per 100; $12.50 per 1000.
Tidal Wave, $2.00 per 100; $15.00 per 1000.

GEO. SMITH, Manchester, Vermont.
Mention American Florist.

W. R. SHELMIRE,
AVONDALE, Chester Co., PA.

Rooted CARNATION Cuttings.

SEND FOR CIRCULAR.

30,000 ROOTED CUTTINGS.
CARNATIONS

NOW READY.

Send for Price List.

I. LARKIN,
TOUGHKENAMON, CHESTER CO., PA.

Rooted Carnations.

	Per 1000	Per 100
HINZE'S WHITE	$10.00	$1.25
PORTIA	12 50	1.50
GRACE WILDER	12 50	1 50
SILVER SPRAY	12.50	1.50
LAMBORN	15.00	1.75

Cuttings put in Jan. 1, on Feb. 8 99 per cent. were well rooted.

DE WITT BROS.,
Cash with order. BRISTOL, PA.

CARNATION MRS. L. FAWCETT.

A large lot of Rooted Cuttings of this magnificent new pink variety now ready, $16.00 per 100, $50.00 per 1,000.

L. FAWCETT, Carnationist, SALEM, OHIO.

Why Do You Buy
ROOTED CUTTINGS
When You Can Buy
FINE PLANTS AS CHEAP.

McGowan, Christmas, Golden Gate, Hector, $3.50 a 100; $32.00 a 1000.
Fisher, $3.00 a 100; $25.00 a 1000.
In 2-inch pots two months, ready for immediate shipment. Guaranteed first-class.

E. M. GIDDINGS, Corfu, N. Y.
Mention American Florist.

Send a
POSTAL

For complete list of Carnations.

GEO. HANCOCK, Grand Haven, Mich.

ROOTED CUTTINGS

	Per 100.
Petunias, double, white and variegated	$2 00
Heliotrope	1 00
Ageratum, dwarf, white and blue	1 00
German Ivy	1 00
Geraniums, finest varieties	2 00
SEEDLINGS.	
Single Petunias, finest strain	50
Lobelia, 4 varieties	50
Salvia splendens	75
Centaurea Gymnocarpa	75
Geraniums, from 2½ in pots	3 00
Pansies, transplanted plants	2 00
Daisies, from seed bed	3 00
Hydrangeas, Hortensis, Thos. Hogg and Otaksa	$8.00 to 25 00

Cash with order. 10 cts. per 100 extra when shipped by mail.

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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

"COMMON Sense in Business Matters" is the title of a neat volume of 256 pages received from the publishers, Messrs. Voorhees & Rudd, Blue Island, Ill. The title sufficiently indicates the contents of the book, and it only remains to say that the subject has evidently been handled by a man who has had practical business experience instead of by a professional bookmaker. The usual trouble with this class of books is that they tell you everything except what you want to know. This seems to be an exception, and to treat of everyday business transactions and in a brief, concise way. The very full index will make it especially valuable for reference regarding the doubtful points that so often arise in the transaction of business. In addition to the other matter there are given a large number of useful tables, each handy to have at one's elbow. We have placed our copy among the books that we keep at hand for reference and this sufficiently indicates our opinion of its merit and value.

WEEDS.—Among the exhibits at the World's Fair will be a collection of weeds. Prof. Byron D. Halsted, of the N. J. State Experiment Station, New Brunswick, N. J., has the matter in hand and he has issued a circular asking for specimens of the worst weeds from each state. What a villianous crew he will have collected together. But such an exhibit will be of much interest.

Parks.

PITTSFIELD, MASS.—Onata Park, on the borders of Onata Lake, although as yet unimproved, is in its natural state a beautiful spot. It was the gift to the city of the late Abraham Burbank, an honored citizen. It contains about 40 acres. It is expected that steps toward development and improvement will soon be taken.

ROCHESTER, N. Y.—Rochester has three public parks. Genesee Valley Park on the upper Genesee River contains 372 acres; Seneca Park on the lower Genesee River contains 260 acres, and Highland Park on the range of hills overlooking the city contains 60 acres. The parks are not all finished yet. The roads and walks are only partly graded and a few of the trees set out, but when completed Rochester will have a park system of which she may be proud. F. L. Olmstead & Co., of Brookline, Mass., are the landscape architects, and Calvin C. Laney, of Rochester, is the superintendent in charge.

ALBANY, N. Y.—The annual report of Superintendent W. S. Egerton of the Albany parks makes a very favorable showing of the work accomplished during the past season and the plans for further improvement the coming season. Washington Park is one of the most beautiful of city parks. It is well laid out and planted with fine trees and shrubbery. Last summer the display of aquatic plants in the east end of the lake proved one of the greatest attractions for the public, and preparations are being made for a much larger planting of aquatics this year. The conspicuous labelling of the trees and ornamental plants is highly appreciated by visitors and will be more detailed next season. In Washington Park is located the Burns monument, one of the finest pieces of bronze work in this country. The total amount spent for park maintenance in 1891 was $26,730.

ATLANTA, GA.—L. P. Grant Park is so named in honor of the donor, who gave 100 acres of valuable land in 1883 for park purposes. It now contains about 144 acres, with about five miles of driveways, the same of walks, four pavilions, house of public comfort, six bold natural springs, two lakes and other attractions and improvements, and is said to be the prettiest park in the south. A fine menagerie was presented to the park by the present president, G. V. Gress, Esq., and is comfortably housed in a fireproof building. The construction, engineering and decorative work has all been done under the supervision of Superintendent J. L. Mosteller.

PATERSON, N. J., has two parks, the East Side Park containing about 60 acres and the West Side Park containing about 30 acres. These plots of land were purchased about three years ago expressly for park purposes, and a board of seven Park Commissioners was duly organized to care for them. Last spring Mr. Joseph Towell, a florist of this city, was elected a Park Commissioner to replace one whose term of service had expired. He has succeeded in converting our West Side Park into a paradise compared with what it was when he found it. With that exception no practical knowledge has been expended on our parks. On the first of January 1892 Superintendent Stellamacher took charge and it is hoped that the good work so ably initiated by Mr. Towell will be continued.

For Fumigating.

Will some one of your readers inform me if he knows of any firm in this country selling the Lethorion or Carbon Cones for fumigating. W. H.

IF SUBSCRIBER had given address as well as name we would have answered the query by mail. The query is one we do not care to print.

REMOVAL.—April 1 the American Florist Co. will remove from 54 La Salle street to larger and better appointed quarters in the Monon Building, 320 to 326 Dearborn street.

SEED POTATOES SEED

I have a large stock of all the leading NEW and STANDARD varieties.

Prices on application. In submitting list, always state quantity of each variety wanted. Catalogue on application.

E. H. VICK, 631 Park Ave., ROCHESTER, N. Y.

DOUBLE SWEET ALYSSUM.

Rooted Cuttings, 75 cents per 100; Potted plants, $1 50 per 100 Manettia, potted plants, $3 00 per 100. Double Hollyhock plants, $3.00 per 100.

J. W. DAYHOFF, Hagerstown, Md.

For Spring Potting.

The best time to pot off small Palms and Foliage Plants is NOW, and they will then be ready to fill houses with for summer, after bedding plants are cleared. Cheap plants as follows:

	Per 100
Aralia Sieboldi, 2-inch pots	$10.00
Pandanus utilis, 2-inch pots	10.00
Areca lutescens, 2-inch pots	10.00
Dracæna terminalis, 2-inch pots	8.00
Latania borbonica, seed boxes	4.00
Cocos Weddelliana, seed boxes	8.00
Cocos plumosa, seed boxes	8.00
Asparagus plumosus, 3½-inch pots	40.00
Begonias, tuberous, single, finest flowers, distinct colors	10.00
Begonias, tuberous, double, very fine.	20.00

(Begonias are started, but can be mailed for next three weeks)

JOHN H. LEY,
Tropical Nursery, Anacostia. WASHINGTON, D. C.
Mention American Florist.

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The Finest Stock in the World.
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ENGLAND.
Thirty minutes from London.
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Established and Fresh Imported—Specially Cattleyas; very useful for cut flowers, at greatly reduced prices.
Best quality of Orchid Peat. Write for price list.
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P. O. Box 322. SOUTH ORANGE, N. J.
Mention American Florist.

PANSIES AND OTHER STOCK
For Fall Planting.

	Per 100	Per 1000
SMILAX, 2½-inch pots	$1.50	$12.00
Rooted Cuttings CHRYSANTHS, ready March 1st	2.00	15.00
AMPELOPSIS VEITCHII, 3-in. pots, strong, at	5.00	

Address J. G. Burrow,
FISHKILL N. Y.
Mention American Florist.

To the readers of the AMERICAN FLORIST:
By acknowledging that you saw this in the AMERICAN FLORIST I will for the next two weeks from the date of this paper, send you for $5.00, 1000 Rooted Coleus Cuttings of at least 25 kinds; the selection of sorts to remain with us. No cull stock. Cash with order.
J. E. FELTHOUSEN, Florist, Schenectady, N. Y.

LYCOPODIUM.
First-class Bouquet Green, at $3 per 100 lbs.
—CASH WITH ORDER.—
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MEDFORD, WIS.

POTTER PALMER
The largest and best late white Chrysanthemum. Ivory and Domination, the next early whites. V. H. Hallock, White Cap; H. E. Widener, E. G. Hill and all of last years novelties. Will exchange for young stock of geraniums, Coleus, Heliotropes and roses.
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PEARSALLS, NEW YORK.

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The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
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A 1 IVY LEAVES.
BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
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Mention American Florist.

Wholesale Markets.

Cut Flowers.

BOSTON, March 22.

Roses, Bon Silene	3 00@ 4.00
" Gontier, Niphetos	4 00@ 5.00
" Perle, Sunset	5 00@ 6.00
" Mermets, Brides, Wootton	6 00@ 8.00
" Jacq	12 00@18.00
Carnations, short	1.50
" long	2 00@ 2.50
Mignonette	2 00
Harrisii, Callas	6.00@ 8.00
Valley, Tulips	3 00@ 4.00
Narcissus Paper White	3 00@ 4 00
Yellow Narcissus, single and double	3.00@ 4.00
Marguerites	1.00
Pansies	.25
Violets	.50@ .75
Heath, per bunch	.50
Primroses, per bunch	.12
Smilax	16 00
Adiantum	1.00@ 1.50
" Farleyense	10.00@20 00

NEW YORK, March 22.

Roses, Gontier	3 00@ 5 00
" Perle	3 00@ 4.00
" Niphetos	2.00@ 3.00
" Mermet, Bride	3.00@ 6 00
" Hoste, La France	3 00@ 8 00
" Beauties	10.00@50.00
" Magna Charta	10 00@35 00
" Cusin	4.00@ 6.00
" Watteville	4 00@ 8.00
" Gloire de Paris	10 00@40.00
" Jacqs	6.00@15.00
Adiantum	1 00@ 1 50
Carnations	1.25@ 1.50
Valley	2.00@ 3 00
Hyacinths, Narcissus	3 00@ 4.00
Tulips	2.00@ 4.00
Mignonette	1 00@ 3 00
Violets	.50@ .75
Harrisii	4.00@ 8.00
Smilax	20 00
Asparagus, per string	.40@ 1.00
Lilac, per bunch	.75@ 1.00

PHILADELPHIA, March 22.

Roses, Brunners	50.00
" Baroness	35 00
" Laings, Magnas	39.00
" Beauties	30.00@35 00
" La France, Albany	6.00@ 8.00
" Mermets, Brides	6 00@ 8 00
" Jacqs	12.00
" Cusins, Watteville	5 00@ 6.00
" Perles, Niphetos, Gontiers	4 00
Valley	3 00@ 4.00
Carnations	1.50@ 2 25
Violets	.35@ .50
Daffodils	3.50@ 4 00
Mignonette	1 00@ 3.00
Tulips	4.00@ 5 00
Harrisii	6.00@10.00
Romans	1.50@ 3 00
Smilax	25 00
Adiantums	1.00@ 1.50

CHICAGO, March 22.

Roses, Perle, Niphetos, Gontiers	3.00@ 5.00
" Bon Silenes	2 00@ 3 00
" Mermets, La France	4 00@ 6.00
" Bennetts, Dukes, Woottons	4.00@ 6 00
" Albany, Bride	5 00@ 6 00
" Am. Beauties	10.00@25 00
" Jacq	10.00@18 00
Carnations, long	1.25@ 3.00
" short	75@ 1 00
Romans, Valley, Daffodils, Narcissus	3 00@ 4.00
Tulips	3 00@ 5.00
Callas, Harrisii	8.00@12 50
Candidum	4.00@ 6.00
Violets	75@ 1 50
Smilax	16.00@25.00
Adiantum	1.00@ 1.25

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CUT FLOWERS IN SEASON,
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And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist.
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Chicago Agent:
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THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

Clubs.

The article of correspondent "E" in the FLORIST of January 14 is one deserving of a general and favorable comment, since his attack upon the too often practiced methods of the small clubs is an attack so richly deserved and can in a great measure be remedied if you only have as he says, a live, wide awake president, (and why play the fools and elect any other kind), who will be ever on the alert to provide something for the silent voters and kickers to do for the enlightenment of his fellow members. And when he misses or skips a stated meeting of the club continue his task from meeting to meeting until you succeed in your purpose or cause him to drop out and carry his share of discord with him, for you surely do not need it in your clubs at any time.

This same man will, as "E" says, refuse to express himself in the club meetings on questions under discussion, or even vote by uplifted hand aye or nay, on any question of either little or great weight, and will then go out among his cronies and growl of rings, cliques, etc., and refuse to recognize the majority as the most powerful ring or clique we Americans know of. Where is the good sense in kicking about it until red in the face when we know the result must be just? How to manage him is a question, but I think if all clubs having stock of this kind will adopt a ballot system of voting the remedy would be an easy one, even though much slower, and would force the kicker to occupy the stall of his own selection.

Again, in your meetings the president must not fail to even insist on each backward or kicking member giving expression to their views on all subjects under discussion relating to their own line of work, and if any member know of any brilliant success or dismal failure he may have made, invite him to tell about it and thereby open up material for discussion; at the same time you are drawing him out and lessening his desire to scold.

Clubs are just what we make them and each member is just as responsible for their success as the president or secretary. Brother Florist, do your part to make your local club a power in the trade you are in and you will be surprised to see the ever increasing advantage accruing from it. And if you are too lazy to keep up with the important matters of latter days I am safe in saying to the readers of the FLORIST that your place is not worth a visit, and by reason of that same self-inflicted laziness. C. J.

OTTAWA, KANS.—The Ottawa Seed and Grain Co. was incorporated March 9.



Write for wholesale list.

MICHEL PLANT AND SEED CO.,
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WE BOOK NOW.
FOR SUMMER AND FALL DELIVERY
ORDERS
ROSES,
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D. M. FERRY & CO., Detroit, Mich.
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MONEY IN GROWING MUSHROOMS
More money in them for less outlay than any other crop. Any one with a cellar or stable can raise them. Our Primer & Price-list tells the whole story. Free. Send for it. A brick of our celebrated English Mushroom Spawn mailed, post-paid, for 25c. JOHN GARDINER & Co., Seed Growers, Importers and Dealers, Philadelphia, Pa.
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PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
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MRS. J. S. R. THOMSON, Fort Mills, York Co., S. C.

Our stock of Bedding plants, Forcing Roses, Dracæna indivisa, Moon Flowers, etc., is in fine condition. Correspondence solicited.
McCREA & COLE, Battle Creek, Mich.
Mention American Florist.

SEGERS BROTHERS

Offer HYACINTHS, TULIPS, DAFFODILS,

and all other Bulbs for Forcing, in fine quality at reasonable rates.

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SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, HOLLAND.

— THE —

UNITED STATES NURSERIES

PITCHER & MANDA,

Short Hills, N. J.

SEEDS.

Owing to short crops the supply of many varieties of the leading **VEGETABLE AND FLOWER SEEDS** have become exhausted and seedsmen are filling orders only in part, at advanced prices.

We want it generally known that we have not been forced to this expedient as yet and can furnish in **LARGE** or **SMALL QUANTITIES**, nearly all varieties of **VEGETABLE SEEDS, FLOWER SEEDS,** and **SPRING BULBS,** at prices which we commenced selling at the beginning of the season, and in many cases where large quantities are wanted we can furnish **CLOSER FIGURES.**

ALL VARIETIES OF
ONIONS,
BEANS,
SUGAR CORN,
CUCUMBERS,
LETTUCE,
PEAS,
and all other leading kinds

Flower Seeds, Sweet Peas

And all other leading flower seeds in bulk at figures correspondingly low.

BULBS.

All the leading kinds of Bulbs.

Write for special prices for Fall delivery on **LILIUM HARRISII, ROMAN HYACINTHS, DUTCH HYACINTHS, NARCISSUS, FREESIAS, TULIPS, CROCUS,** &c.

We want 50,000 **DOUBLE PEARL TUBEROSES,** and ask for samples with prices.

Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS,

AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

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ESTABLISHED 1878 SAN FRANCISCO, CAL.

ROMAN HYACINTHS, PAPER WHITES,

Lilium Harrisii, Berlin Pips Lily Valley, Tuberoses, Azalea Indica, etc.

PRICES QUOTED and ORDERS BOOKED FOR SUMMER AND FALL DELIVERY.

C. H. JOOSTEN, Importer,

3 COENTIES SLIP, NEW YORK.

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LILIUM HARRISII, ETC.

We are now booking orders at the following low prices:

		Per 100	Per 1000	Per 10,000	Per 50 000
LILIUM HARRISII,	4 to 5 inches circum	$ 2 50	$19 00	$17 00	$16 00
	5 to 7 " "	3.50	25 00	24 00	22 00
	7 to 9 " "	5.50	48 00	47.00	
	9 to 11 " "	10.00	90 00		

Guaranteed full measurement.

			Per 100	Per 1000
LILIUM LONGIFLORUM,	Bermuda grown, at same rates.			
" **CANDIDUM,**	fl. simples, strong.		3 50	25 00
ROMAN HYACINTHS,	white, 4 inches circum		2 00	13 00
" "	white, 4½ to 5½		3 00	20 00
" "	white, 5 to 6		3 50	25 00
DOUBLE ROSY,	rosy, tender, selected		2 50	16 00
ITALIAN,	blush white, selected		2 75	19 00
BLUE ROMAN,	selected		2 75	19 00
TOTUS ALBUS	(Paper White) Narcissus, selected		1 50	9 00
" "	gr. fl. Narcissus, selected		2 00	13 00
DOUBLE ROMAN NARCISSUS,	selected		1 50	10.00
FREESIA REFRACTA ALBA,	selected		1 25	8.00
ORNITHOGALUM ARABICUM,	selected		2.50	20 00
TRUE BERLIN VALLEY PIPS				9 00

	Per 100	Per 1000
	12 00	11.00
	19 00	18 00
	24 00	23.00
	15 00	
	18 00	
	8 00	
	12 00	
	7.50	
	8 00	7 50

Half quantities at same rates.

HULSEBOSCH BROS., Bulb and Plant Growers,

OVERVEEN, near Haarlem, HOLLAND.

Address for the U. S., A. HULSEBOSCH, P. O. Box 3118, NEW YORK CITY.

Mention American Florist.

IMPORT BULB PRICES

CAN BE MADE NOW F. O. B. CHICAGO OR NEW YORK.

FIRST-CLASS STOCK, PROMPT SHIPMENT AND VERY CLOSE RATES.

Try us; Ask for our Agent to call.

J. C. VAUGHAN, P. O. Box 688, CHICAGO.

IMPORT PRICES NOW READY.

HARRISII, ROMANS, FREESIAS, VON SIONS, VALLEYS, ETC.

W. W. BARNARD & CO.,

6 and 8 North Clark Street, CHICAGO.

KAE SHEAN CO.,

Growers of CHINESE SACRED LILY,

HONG KONG.

Goods can be obtained at the following houses:
John L. Childs.....Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R. Pierson.....Tarrytown, N. Y.

Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

TUBEROUS BEGONIA BULBS.

Raised from seeds of plants that have taken First Prize at the shows of the MONTREAL HORTICULTURAL SOCIETY for THREE Years in succession.

Single, mixed colors, fine bulbs for bedding, per dozen, $1.00.
Single, separate colors, per dozen, $2.00.
Dble., separate colors, a few choice bulbs, each 40c.

F. LOGAN GIRDWOOD, FLORIST,

St. Annes de Bellevue, P. Q. Canada.

Always mention the AMERICAN FLORIST when writing to advertisers.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

DUTCH BULBS.

JOHN BARTH BOS,

OVERVEEN, near Haarlem, HOLLAND.

— ESTABLISHED 1868. —

Large grower of Hyacinths, Tulips, Narcissus, Crocus, Lilies, etc.

Before ordering bulbs, write me for a catalogue.

V. LEMOINE & SONS,

NANCY, FRANCE.

Catalogue of Novelties, including Begonias Pelargoniums, Chrysanthemums, Gladiolus Montbretias, etc., etc., can be had on application to their agents,

C. C. ABEL & CO., New York.

New Cannas.

While in Chicago recently I availed myself of the opportunity to visit Mr. J. C. Vaughan's greenhouses at Western Springs. This establishment is well laid out and quite extensive. There are some 15 or 16 greenhouses well filled with a general stock for the wholesale and retail trade, and an inspection is very interesting to any lover of plants.

One of Mr. Vaughan's specialties is cannas, and they seem to be in their glory here, planted on tables in his black Illinois soil. He has, I should judge, thousands of Mme. Crozy and Star of '91. One of the most beautiful and striking varieties I saw in bloom at this place was Alphonse Bouvier. The flower is very large, dark red, very brilliant and of heavy texture. Gustave Senholz is another striking variety, the flowers quite large, orange shaded vermilion. Pres. Carnot has deep red flowers and handsome dark foliage. J. D. Cabos is another dark foliaged variety, the flowers deep orange in color, a very pleasing shade. When this sort is better known I have no doubt it will be very popular. Thomas S. Ware resembles Star of '91 somewhat, and Mr. Vaughan's foreman thinks it an improvement on that now popular variety. There were several other new cannas in this collection, not in bloom at the time of my visit, and Mr. V.'s foreman told me that these sorts were as beautiful as those I had seen, but of different shades and markings.

Another novelty of merit that I noticed at this place was Pteris Victoriæ, a great improvement on P. cretica albo-lineata. It is more graceful and compact than the old variety and will make handsome little table plants when small.

Quite a nice stock of the new Selaginella amelliana was also noticed here. This is one of the handsomest selaginellas the writer has ever seen.

Calla Little Gem was blooming quite freely in 2½-inch pots. This will be quite a little novelty as a house plant for the ladies, as it is very dwarf and takes up but little room.

Mr. Vaughan has a very large and well grown stock of Dracæna Lindenii and D. Massangeana in 6-inch pots, and the latter variety is certainly very handsome. W. W. COLES.

Kokomo, Ind.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

VIOLETS.

HEALTHY, WELL ROOTED RUNNERS OF

WELLSIANA, the finest of all single Violets; flowers average 1 inch in diameter, very fragrant and of a rich deep purple color, $10 per 100; $1 50 per doz.; from 2½-inch pots, $2 50 per doz.

VICTORIA REGINA, $6 per 100; $1 per dozen.

CZAR, $4 00 per 100; 75 cts. per dozen.

Above three varieties are grand for winter forcing.

H. HUEBNER,

GROTON, - - MASS.

New, Rare and Beautiful Plants,

ORCHIDS, ETC.

A collection of the most beautiful Fancy Caladiums ever offered; with the Newest and Rarest Hothouse and Greenhouse plants, carefully grown, and at low rates.

ORCHIDS—A very extensive collection: East Indian, Mexican, Central, South American, etc.

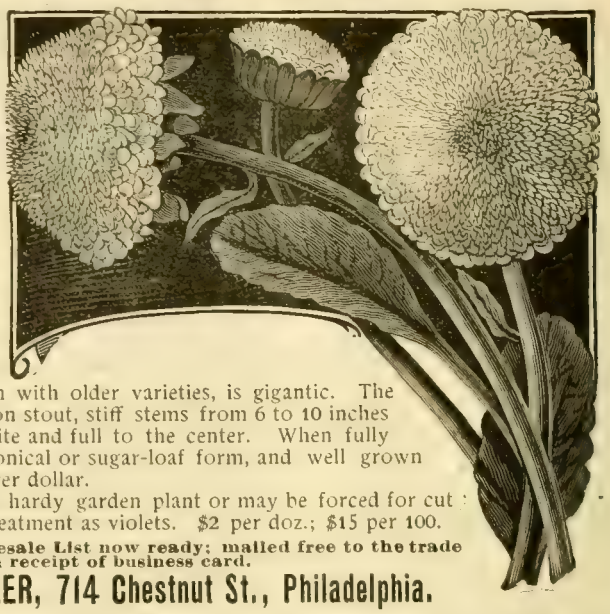
Hardy Perennials, Roses, Clematis, Peonies, Phloxes, etc.

New and Rare Standard Fruits; Rare and Beautiful Trees and Shrubs, Evergreens, etc.

Catalogues on application.

JOHN SAUL, Washington, D. C.

New Double White Daisy Snow Crest.



—)o(—

A most distinct variety and an improvement on all existing sorts. Its habit of growth and size of flowers, in comparison with older varieties, is gigantic. The flowers, which are borne on stout, stiff stems from 6 to 10 inches long, are of the purest white and full to the center. When fully developed they rise to a conical or sugar-loaf form, and well grown specimens will cover a silver dollar.

It makes an admirable hardy garden plant or may be forced for cut flowers under the same treatment as violets. $2 per doz.; $15 per 100.

Dreer's Quarterly Wholesale List now ready; mailed free to the trade on receipt of business card.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. ROSES, 8 leading sorts.
VIOLETS, the Neapolitan. COLEUS, 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.

COLEUS

Are all ordered to April 1. Cause: A 1 Cuttings and advertising. Will take orders to fill after above date.

Mums and Fuchsias.

I have a nice batch in benches, rooted and ready to ship.

SEND FOR PRICE LIST.

S. B. FIELD, Roselle, N. J.

THE NEW VIOLET

R. GARRETT,

Is a sport from Count Brazza, of a light blue color, very large and very double; a strong, healthy grower.

PLANTS READY APRIL 1st.

Parties in and west of Chicago will please leave their orders with J. C. VAUGHAN, box 648, Chicago.

Price, $12.00 per 100; $100 per 1000; $4.00 per dozen.

All orders must be accompanied by cash.

J. COOK,

318 N. Charles Street, BALTIMORE, MD.

CLEMATIS.

Strong heavy plants.....doz. $4.00
Lighter, equal to imported..... " 3.00
ROSES—H. P. 2 year, own roots, choice kinds.....per 100 $10.00
DAHLIAS—50 vars., whole roots, proved sorts.....per 100 $8.00

F. A. BALLER, Bloomington, Ill.

Mention American Florist.

CHRYSANTHEMUMS.

Choice collection of Japanese, Chinese and anemone exhibition varieties, $1.00.

GLOXINIAS.

Unrivalled strain of hybrid, erect flowering varieties, $1 00 per dozen.

WM. TRICKER, Dongan Hills, (S. I.) N. Y.

MIXED LOTUS SEEDS.

Nelumbium Roseum, crimson pink, Nelumbium Kermesinum, lighter pink. Full cultural directions sent. 25 cts per doz; $1.50 per 100; $10 per 1000.

PHANTOM SPRING AQUATIC CO., Huntsville, Ala.

ROOTED CUTTINGS.

—o—

ALTERNANTHERA P. Major and Aurea Nana, 50 cts. per 100.

AGERATUM White Cap and Cope's Pet, 50 cts. per 100, by mail prepaid.

OTHER STOCK LATER.

Don't order more PETUNIAS and VERBENAS until quoted here.

S. O. STREBY,

Lock Box 77. UPPER SANDUSKY, OHIO.

Mention American Florist.

DO YOU KNOW THE SNOWFLAKE DAISY makes one of the most attractive and salable potplants, and that we offer a fine stock of strong plants all in bud, ready to come right on for Easter, at $3 00 per 100.

3,000 Variegated Vincas, very strong, 3 inch, $3.50 per 100.

3,000 Golden Marguerite, Dwarf, large flowering, flats, $2 50; rooted cuttings, $1.50 per 100. 1000 Choice Mixed Geraniums, rooted, $1.50 per 100 post free.

10,000 Rooted Cuttings of Coleus, Heliotrope, Gem Feverfew, Fuchsias, (Hill, Phenomenal, and other fine sorts mixed.) Musk, Lobelia, Othonna and other vase plants, $1.00 per 100, post free.

1,000 Phlox, choicest strains, all colors mixed, Nana compacta and Star of Quedlinburg, flats, $2 00 per 100. Fresh Smilax Seed ½ oz. 20 cts. 1 oz. 35 cts. Finest mixed double fringed Dianthus, liberal trade packet, 25 cents. Eulalia Zebrina, and Japonica, large field grown, will divide, 1st size, $12.00; 2nd size, $8.00 per 100. Bouvardias, Chrysanthemums, Violets, later 5,000 Grape Vines, standard sorts, very cheap. Satisfaction guaranteed or money refunded.

Very respectfully,

J. C. GIBSON, WOODBURY, N. J.

—Prices Greatly Reduced.—

CAPE COD PINK POND LILY.

For price list, Plants and Cut Flowers, address the original cultivators,

CHIPMAN BROS.,

SANDWICH, (Cape Cod), MASS.

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Robert B. Young & Co.

AUCTIONEERS OF

PLANTS, BULBS,

SHRUBS, ORCHIDS, ETC.

205 Greenwich St., NEW YORK.

During present month our regular sales of Hardy Roses and Ornamental Plants will be held *Thursday of each week*, and will be followed by sales of plants for bedding and general decorative purposes.

Special days have been set apart for the sale of Orchids.

CATALOGUES ON APPLICATION.

BEGONIAS

(TUBEROUS.)

During more than 15 years we have made a specialty of them, and by crossing and selecting succeeded in getting a strain of **low, very free-flowering plants with broad leaves and upright flower-stalks, bearing such exceedingly fine flowers and so varied as to color, as scarcely will be found elsewhere.** We recommend them as far superior to those commonly met with. We offer **fine, strong tubers** at following very low prices:

	Per 100	Per 1000
Mixed, fine quality	$ 4 00	$35 00
" extra selected	6 00	50 00
Separate colors, extra	7 00	60.00

Smaller tubers 20 to 30 per cent less.
Double mixed, fine large flowers...$10 to $20 per 100
Splendid named doubles.....$3 to $10 per doz.

Tuberous Begonias are free from import duties. Costs of freight prepaid from Holland to New York. For 250 tubers or less, $1 25; for 500, $2 00; for 1000 to 1300, $3 25; for 2500 to 3700 $5 00

Terms for unknown correspondents, cash with order or good references.

ZOCHER & CO., Haarlem, Holland.

Mention American Florist.

LILIES FOR EASTER.

HARRISII, LONGIFLORUM, CANDIDUM, HYDRANGEAS, LATANIA BORBONICA, DRACAENA INDIVISA, GERANIUMS, ETC.

☞ **Send for Prices.**

WILLIAM A. BOCK,

NORTH CAMBRIDGE, MASS.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

GEO. W. MILLER,

WHOLESALE * FLORIST,

1748 N. Halsted Street,

Chicago, Ill.

ROSES AND PALMS A SPECIALTY.

TUBEROUS BEGONIAS, Seeds and Bulbs.

Our own grown Superior Strains.

TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

TESTED SEEDS of VICTORIA REGIA and all other WATER LILIES.

FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

ROSE HILL NURSERIES. **SIEBRECHT & WADLEY, New Rochelle, N. Y.**

Roses. Orchids.

Mermets, Brides, Papa Gontier and Hoste, strong plants from 2-inch pots, $4.00 per hundred.

SEND STAMP FOR SPECIAL ORCHID BARGAINS.

WANTED—H. P Roses and Asparagus Plumosus. Will exchange for above.

DAVID CLIFFE, Florist, Germantown, Philadelphia, Pa.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

—NO RUST OR MILDEW.—

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

Verbenas

FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30.00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	3.00	25.00
" " Rooted Cuttings	1.00	8.00
Lemon Verbenas, 1 year old, strong	6.00	

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1.00	8 00
Feverfew (Little Gem), extra strong	2.00	15.00
Salvia splendens, extra strong	1.50	12.00
Moon Vine	2.00	
Ageratum, blue and white	1.25	10.00
Achyranthes Emersonii, etc	1 00	
Heliotrope, light and dark—no rust	1.50	12.00
Begonias, assorted, fine	2 00	
Gazenias, splendens and variegata	2.00	

WOOD BROTHERS,

FISHKILL, N. Y

Mention American Florist.

ROSES.

Strong, healthy plants of La France, Mermet, Bride and Watteville, 4 inch pots, $5.00 per 100; $40.00 per 1000. 2½-inch pots, $3.50 per 100; $30.00 per 1000.

CARNATIONS.

Hinze's White, Portia and Grace Wilder, from 2½-inch pots, $2.50 per 100. Rooted Cuttings, $1 00 per 100.

ROOTED CUTTINGS.

Heliotrope, $1.00 per 100; from 2½-inch pots, $2.00.
Ageratum, white and blue, Alternantheras, Coleus and Gnaphalium lanatum, Sweet Alyssum, 75 cts. per 100; from 2½ inch pots, $1.50.

JAGD & CO.,

Springfield, Mass,

Tuberous Begonias.

Seedlings ready end of this month. In separate colors, per hundred, $3.00; mixed, $2.50. Delivered by mail or express. Safe arrival guaranteed.

BRAUER & RICHTER, McConnelsville, Ohio

ENGLISH IVY.

In 2½-inch pots, cheap.
Send for price list of Bedding plants, etc.

JOS. H. CUNNINGHAM,

Delaware, Ohio.

CYCAS REVOLUTA.

Second and last Importation of the Season of 50,000 lbs. Cycas revoluta, the only true long-leaved variety. Offered at these low prices for the next

60 Days.

FIRST-CLASS STOCK.

CHOICE SELECTED Stems, from 6 inches to 3½ ft., per 100 lbs. $10, f. o. b.

SPECIAL INDUCEMENTS ON LARGE LOTS.

SECOND-CLASS STOCK.

CHOICE but not selected stems, from 6 inches to 3½ ft., per 100 lbs. $6.50 f. o. b.

Special inducements on larger lots.

PRICES REDUCED FOR THE NEXT 60 DAYS ON ALL STOCK.

We also received choice Rhapis flabelliformis, Viburnum plicatum (Japan Snowball), Magnolias, Sciadopitys verticillata; fine Retinosporas, Maples, Tree Pæonias, Herbaceous Pæonias, Camellias, Lilium Auratum, Rubrum, Album, Longiflorum, etc., etc.

Send for Catalogue.

FELIX GONZALEZ & CO.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.

ROSA WICHURAIANA and CLEMATIS PANICULATA

are two of our Specialties. Very fine stock. See our **WHOLESALE TRADE LIST** now ready. If you have been missed, drop us a line.

THE READING NURSERY,

JACOB W. MANNING, Prop.,

Established in 1854. READING, MASS.

TRY DREER'S

GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,

Philadelphia

About 500,000 Pearl Tuberose Sets

AT PRESENT TO SELL.

Also about 1000 Calla Bulbs or Plants by May 1st. Home grown Bulbs are the best.

Address, HERMAN SCHLACHTER,

Winton Place, Ohio.

The Nursery Trade.

THE HALL of the House of Representatives in the Georgia State Capitol has been secured for the next meeting of the American Association of Nurserymen. Secretary Green says Atlanta is located high, near the mountains and it will not, he is told, be as hot there in June as many have anticipated.

THE Nurserymen's Association is taking active steps to prevent the passage of the bill introduced into Congress laying heavy penalties on the shipment of trees and plants infested with any injurious diseases. The law as presented is so stringent that it would practically stop the shipment of any nursery stock, as the railroads would have to refuse such shipments to protect themselves from becoming innocently liable for heavy damages due to carrying trees that even an expert might determine to be free from all insects or fungi. The only alternative would be to employ an expert with a powerful microscope to inspect each tree and even then they wouldn't be safe.

AT THE World's Fair the nursery interests will be well looked after. In addition to a large share of the space on the Wooded Island (for the specimen ornamentals) a space of five acres has been set aside for the less ornamental exhibits. All should take a hand in seeing that every department of the trade is fully represented.

MR. C. L. WATROUS of the Capital City Nurseries, Des Moines, will have charge of Iowa's horticultural exhibit at the World's Fair.

A NEBRASKA paper says: "Nurserymen now sell trees on the 15-year plan; that is the nurseryman is to receive choice of any two crops grown on the trees inside of 15 years in payment for the trees." What sort of a deal may this be called if the story is true, and what sort of a story if the latter is a fabrication?

GRAND JUNCTION, COLO.—G. J. Carpenter & Co., the nurserymen of Fairbury, Neb., purchased 40 acres of fruit land in this vicinity the first week in March.

DIXON, CAL.—Eli Snider has purchased the nursery business of D. Cooley and P. H. Brady, embracing some 200,000 young trees.

ESCONDIDO, CAL.—Geo. B. Watson & Co., have opened a nursery on Grand Ave.

Sherwood Hall Nurseries.

TIMOTHY HOPKINS,

MENLO PARK, San Mateo Co., CALIFORNIA.

STANDARD VARIETIES OF

CHRYSANTHEMUMS, ROSES, CARNATIONS, VIOLETS

By the 1,000 or 10,000.

WESTERN AND PACIFIC COAST TRADE PARTICULARLY SOLICITED.

Native Trees, Shrubs, Palms, Ferns, Etc.
Cut Flowers shipped to distant points.

SWEET PEA SEED by Pound or Ton. Contracts for Future Delivery.

CATALOGUE FREE. WHOLESALE PRICES ON DEMAND.

EVERYTHING —IN— FINE TREES, Shrubs and PLANTS CHEAP

2000 American Arbor-Vitæ, 2 ft. fine bushy, 3 times transplanted and sheared, at $1.50 per doz.; $10 per 100.

1000 American Arbor-Vitæ, 2½ to 3 feet, bushy, 3 times transplanted and sheared at $2 per doz.; $12 per 100.

5000 Norway Spruce, 1 to 1½ ft., transplanted, $1 per doz.; $5 per 100.

10,000 Currants, Versailles, Cherry, White Grape, White Dutch, Red Dutch and Black Naples, at $2.50 100; $20 per 1000.

Snyder, Wilson and Kitatinny Blackberry at $1.50 per 100; $12 per 1000.

1000 Mahonia Aquifolia, fine plants of this Evergreen shrub, $1.25 doz.; $10 a 100

1000 Syringa, fine named varieties lilac, 2 years, $1.50 per doz.; $9 per 100.

Syringa, fine white, 3 yrs., at $1.50 per doz.

Syringa, fine, the old purple lilac, 2 years, at $5 per 100.

100 Latania borbonica, 6-inch pots, 6 to 8 leaves, 18 in. high, fine plants, $7 a doz.

100 Latania borbonica, 5 and 6-in. pots, $4 and $6 per doz.

50,000 Young Roses, leading sorts, Perles, Brides, Mermets, Papa gontiers, etc., 2½-in. pots, $4 to $5 per 100.

5000 Teas and Hybrid Tea Roses, 5 and 6-in. pots, $18 to $25 per 100.

10,000 Tuberous Begonias, fine large varieties, $10 to $15 per 100.

☞ Many other things too numerous to mention here.

Send for trade price list or send us a list of what you need and we will give lowest rates.

B. A. ELLIOTT CO., 54 Sixth St., Pittsburgh, Pa.

ESTAB'D 1872. PHILA 30° NEW YORK 60° SHERWOOD NURSERIES

TREES { ORNAMENTAL / Fruit and Nut Bearing } DECIDUOUS AND EVERGREEN Including the NEW CHESTNUT NUMBO.

HEDGING, FLOWERING SHRUBS AND VINES.

Grapes, Small Fruits in Variety, Asparagus, Etc.

Send for Trade List and Estimates before purchasing.

Mention this paper. **THE WM. H. MOON COMPANY, Morrisville, Bucks Co., Penna.**

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:

25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other

PLANTS FOR FORCING AND DECORATING.

Address **P. OUWERKERK,**
P. O. Box 1845, NEW YORK CITY
Catalogue on application

OUR TRADE LIST IS NOW READY.

SURPLUS AS FOLLOWS: Climbing and Tea Roses, Clematis Jackmani and other large flowering sorts. Pyramidal Arbor vitæ 2 to 5 feet. Shrubs 2 to 4 feet large variety. Strong clumps. 15,000 Houghton gooseberry 2 and 3 years.

SELOVER & ATWOOD,
Geneva, N. Y.

See this Special Offer.

Useful Stock for Florists, all in good shape.

	Per 100	Doz.
Funkia Odorata—Fragrant White Day Lily	$6.00	$.75
Tricyrtis grandiflora—Hardy orchid-like blooming perennial	4.00	.50
Acalypha Macafeana—Brightest crimson foliage bedding plants	6.00	.75
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" periclymenum Belgium, J. R.	3 00	
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Ants in Greenhouses.

BY F. M. WEBSTER.

In your issue of March 3rd a number of correspondents refer to ants, and especially to a "little red ant" which I presume to be Lasius brunneus var. alienus. These ants are especially fond of aphides (green flies), and this is probably the secret of the attraction which greenhouses and conservatories appear to have for these industrious little insects. This is the species which Prof. Forbes has found to be so attentive to the corn root louse, a species of "greenfly" seriously injurious to young corn. The ants collect the eggs of the root louse in the fall and keep them in their homes through the winter, shifting them about as the weather changes.

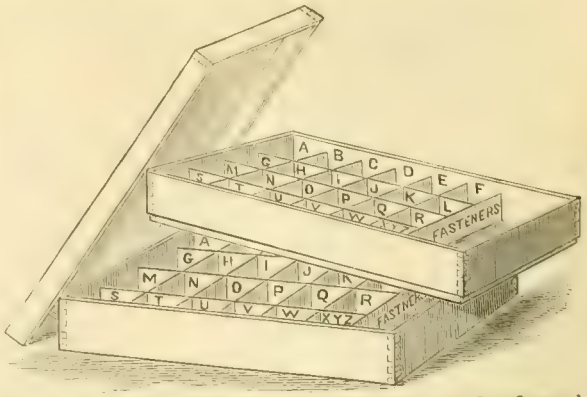
M. P. Huber, in his admirable work on the "Natural History of Ants," says, "this is the most skillful of the indigenous Mason Ants." Of another common species, the yellow ant Lasius flava, the same author relates the following with reference to their habits among the Alps:

Those little yellow ants that are in possession of the pucerons or aphides serve the purpose of a compass to the mountaineers when they are enshrouded in thick fogs or have lost their way during the night. Their habitations, which are more common and more elevated in mountains than elsewhere, take an oblong and almost regular shape. They lie in a direction east and west. Their summit, and the greatest slope, always faces the east; but they incline also on the opposite side. I have verified, upon thousands of these ant hills, this observation of the shepherds. I found a trifling number of exceptions, but only in those instances where these hillocks had been deranged by men or other animals. They do not preserve this form in the plains where they are more exposed to such accidents.

I think florists will find that if they can get rid of the greenfly they will at the same time protect themselves from the ants. In fact I should be glad to learn if any are troubled by these ants who do not also have an abundance of the aphides. Ants of course infest dwellings, but in this case their habitations are usually outside, while others take up their habitations under the bricks of walks, and are attracted into our homes by the toothsome dainties of the pantry. In the case of greenhouses, however, I believe the special attraction will be found to be the greenfly, from many species of which the ants secure a supply of nectar, and the former are consequently commonly styled ants' cows.

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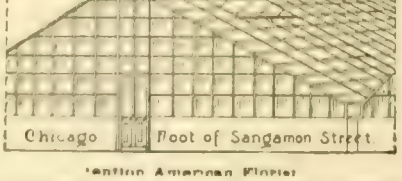
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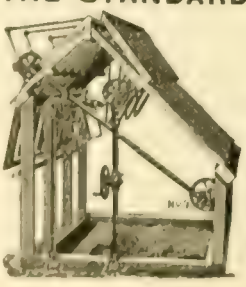
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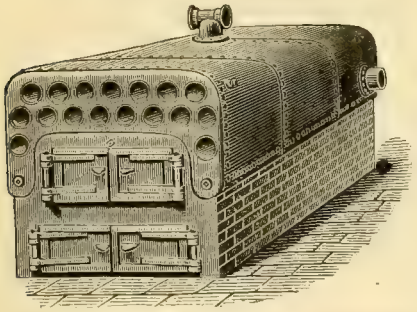
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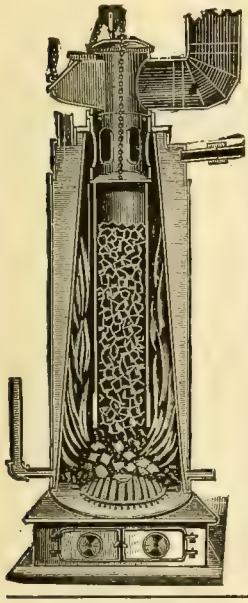
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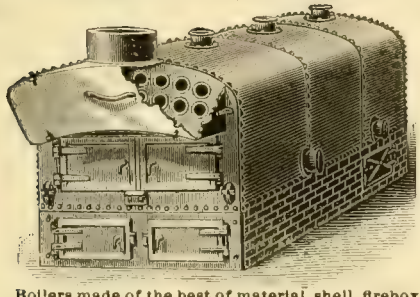
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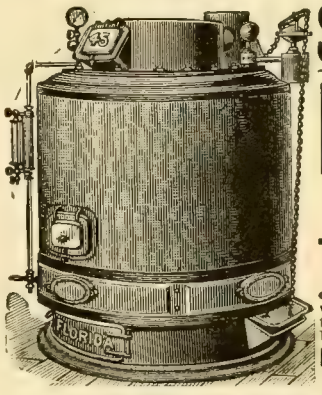
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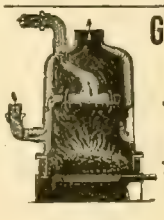


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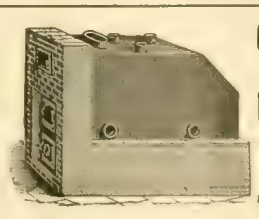


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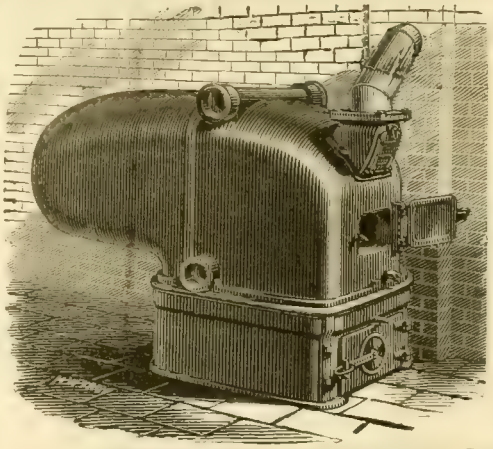
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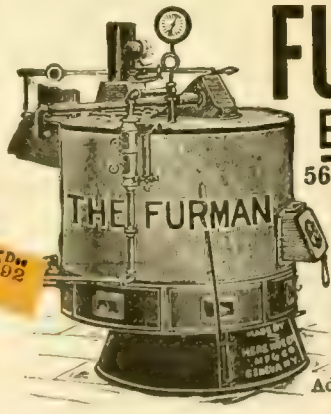
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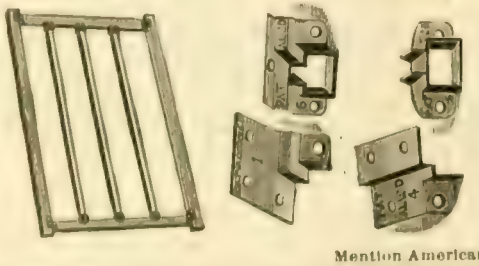
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Vol. VII. CHICAGO AND NEW YORK, MARCH 31, 1892. No. 200

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THE OFFICE of the American Florist Co. will be moved May 1 instead of April 1 as announced last week.

Spring Exhibition Mass. Horticultural Society, Boston.

March was still playing the part of the lion when the day arrived for the opening of the spring show, and the freezing temperature and blustering winds made the conditions very unfavorable for the transporting of large plants. Hence it was that the customary brilliant array of azaleas was wanting and the lower hall wore a forlorn look notwithstanding the beautiful exhibit of the Bussey Institution which occupied the center of the floor, but of whose beauty much was lost on account of the emptiness all around it.

This exhibit was arranged in the form of a rockery filled with forced shrubs and native and garden species of hardy herbaceous plants. To the artist's eye it was the most perfect feature in the exhibition, the naturalness and beauty of the arrangement bearing high testimony to the taste and skill of Walter and C. J. Dawson, by whom it was done.

On the second day, the weather having moderated, Mr. J. H. White sent in a nice group of finely bloomed Indian azaleas, genistas, etc., which helped to render the rest of the hall more inviting, but what was most needed was a heavy belt or several groups of evergreens, the addition of which would have furnished the requisite setting for the Bussey Institution gem. The lack of background is a perennial fault with these spring shows. The beautiful bank of orchids in front of the stage in the upper hall lost much of its effect from the big empty wall behind it.

But apart from this lack of background no better arranged nor more brilliant display has ever been seen here than that in the upper hall and the uniformly high quality of every exhibit was generally commented upon. The big center table extending nearly the entire length of the hall was devoted to the roses and carnations and was essentially a florists' table.

The display of roses was the best ever put up here. Much of the interest centered around the entries for the two rich silver cups which stood on a table near by, which had been offered by the Waban Rose Conservatories for the best and second best twenty-four blooms of that variety. The $100 cup was won by W. H. Elliott and the $75 cup by H. E. Holbrow. Competitors in the rose classes were required to keep their exhibits in condition till the close of the show, on the fourth day, a vote being taken each day by the judges.

The rose premiums are more liberal than formerly, but are still too small when the requirements regarding the daily renewal of the blooms is considered, and they would not be unreasonable were the amount doubled.

The prize for best tea rose introduced since 1889 was awarded to E. M. Wood & Co. for Waban, there being no other entry in this class.

The Mermets, Brides, Brunners, Wattevilles, Gontiers, etc., were all of the highest grade, the principal exhibitors being C. V. Whitten, Lawrence Cotter, gardener; E. M. Wood & Co., Montgomery Bros., H. E. Holbrow, W. H. Elliott and Thos. H. Mead.

The carnation display was more extensive than ever before and attracted much attention. This department is one where an extension of the premium list might profitably be made and where the exhibition covers four days a duplication of the prizes would seem desirable. R. T. Lombard showed seventeen varieties, among which Golden Triumph, Hector, Ferd. Mangold and Mrs. Fisher were the leaders. His Golden Triumph took first prize in yellows. W. Nicholson showed fifteen varieties, including a fine pink seedling from Mrs. Fisher, raised by Sewall Fisher, which received honorable mention, and May Fisher, by the same raiser. May Fisher is a red and yellow variegated in the way of Sunrise, but the markings are much cleaner than in that variety. The handsomest blooms on the table were in the set grown by Lothrop Wight and exhibited by Galvin Bros. Among them were The Princess, yellow, Hector, scarlet, and Mrs. Fisher, white, all of which took first prize in their respective classes. The varieties shown by H. K. Southworth were all well grown and handsome. Paul Richwagen's Ferd. Mangold took first prize in crimsons.

The orchid classes were well filled, albeit the gardeners complained of the meagreness of the prizes as compared with the risk and loss consequent upon a four days' sojourn of their pets in an unaccustomed and injurious atmosphere. In the display from E. W. Gilmore, Thos. Greaves, gardener, there were specially well grown plants of Ada aurantiaca, Miltonia cuneata, Cypripedium insigne nitens, C. Boxalli, Odontoglossum Pescatorei and Alexandræ and phalænopsis and denbrobium in variety. A certificate of merit was awarded to an Odontoglossum Pescatorei, a beautifully marked variety.

J. L. Gardner, C. M. Atkinson, gardener, had fine specimen plants of Phaius grandifolius, Cattleya Trianæ, cœlogynes, odontoglossums and phalænopsis.

In the collection from N. T. Kidder, W. J. Martin, gardener, there were some fine specimens also, including Cypripedium villosum and Cymbidium Lowii.

Norton Bros. and Benj. Grey both contributed orchids in variety. In Mr. Grey's collection were seven distinct varieties of Dendrobium nobile and the much coveted Cœlogyne cristata alba. From Siebrecht & Wadley came a choice little group of orchid blooms and rare nepenthes. Cat. Schilleriana, Oncidium fuscatum and C. speciosissima Ernestii were both much admired. Among the nepenthes was a grand seedling from Mastersii and rubra

punctata, to which was awarded a certificate of merit.

A group of orchids from Wellesley College, grown by Ed. Butler, gardener, contained the finest plant in the hall, a beautiful symmetrical specimen of Denbrobium nobile bearing between 500 and 600 blooms. Also an Odontoglossum nebulosum, which received a certificate of merit.

The groups of spring flowering bulbs, cinerarias, polyanthuses, etc., were all rich in material and well arranged. The group from Dr. C. G. Weld, K. Finlayson, gardener, was very effective and the lovely acacias and dazzling cinerarias were much admired. His cyclamens were arranged in a separate group around a specimen Acacia pubescens, and it is safe to say that no finer cyclamens were ever seen in that hall.

A mixed group from John L. Gardner matched Dr. Weld's on the opposite side of the hall. Here were finely grown specimens of Chorizema cordata, Eriostemon intermedia, boronias, viburnums, ericas, lilacs, etc.

The Bussey Institution had two large groups in this hall, one containing trilliums, Cypripediums acaule and spectabile, jonquils, crocuses, hardy azaleas, etc., and the other made up of staphylleas, andromedas, daphnes, kalmias, ericas and rhododendrons, with a border of lily of the valley and freesias.

A large group of azaleas, anemones, hyacinths, narcissi and ixias was staged by N. T. Kidder. The arrangement of this stand was very artistic.

The display of spring flowering bulbs from W. S. Ewell & Sons was very complete and was winner of several first prizes.

A. Galbraith had excellent tulips and hyacinths in pans and W. Patterson polyanthuses and cyclamens. Mr. Patterson's exhibit was backed up by a regular hedge of Phaius grandifolius.

Fine mixed groups also came from Arthur Hunnewell and Mary T. Goddard.

Among the specially noticeable things were a large shapely plant of the Dawson rose, full of bloom, from W. C. Strong; Astilbe Japonica grandiflora, from J. W. Manning; Azalea "John Gould Veitch," from F. B. Hayes; and Clivia "John L. Flanders," from A. H. Fewkes.

D. Zirngiebel, as usual, came out on top in the pansy line, although Mrs. E. M. Gill's exhibit made a very good second.

The Farquhar plate for the two Harrisii lilies was won by Fred Palmer.

Premiums in addition to those already noted were awarded as follows: For general display of carnations, R. T. Lombard 1st, W. Nicholson 2d; for twelve blooms Ulrich Brunner, Thos. H. Mead, C. V. Whitten; for Catherine Mermet, Waban Rose Conservatories, T. H. Mead; for Cornelia Cook and Mme. Hoste, Waban Rose Conservatories; for Duchess of Albany, C. V. Whitten; Madame de Watteville, Waban Rose Conservatories, Montgomery Bros.; Papa Gontier, C. V. Whitten, H. E. Holbrow; The Bride, Waban Rose Conservatories, W. H. Elliott, general display of spring bulbs, W. S. Ewell & Son. There was no competition to speak of in Indian azaleas and most of the prizes went to J. H. White. In cinerarias and cyclamens Dr. Weld had the field nearly all to himself. Dr. Weld took all the first prizes on hyacinths, excepting in six plants and single plant, where N. T. Kidder came out best. On freesias and on Roman hyacinths J. L. Gardner was first and Bussey Institution second. J. L. Gardner also took first on lily of the valley and three pans of tulips. W. S. Ewell & Son were first on general display of bulbs, six pans and three pans of tulips and six pots of jonquils. On polyanthuses W. Patterson was first. On hardy flowering deciduous shrubs and evergreen shrubs the Bussey Institution was first and J. L. Gardner second. On hard wooded greenhouse plants J. L. Gardner first and Dr. Weld second. The prizes for designs were awarded to Norton Bros., first, and Mrs. A. D. Wood, second.



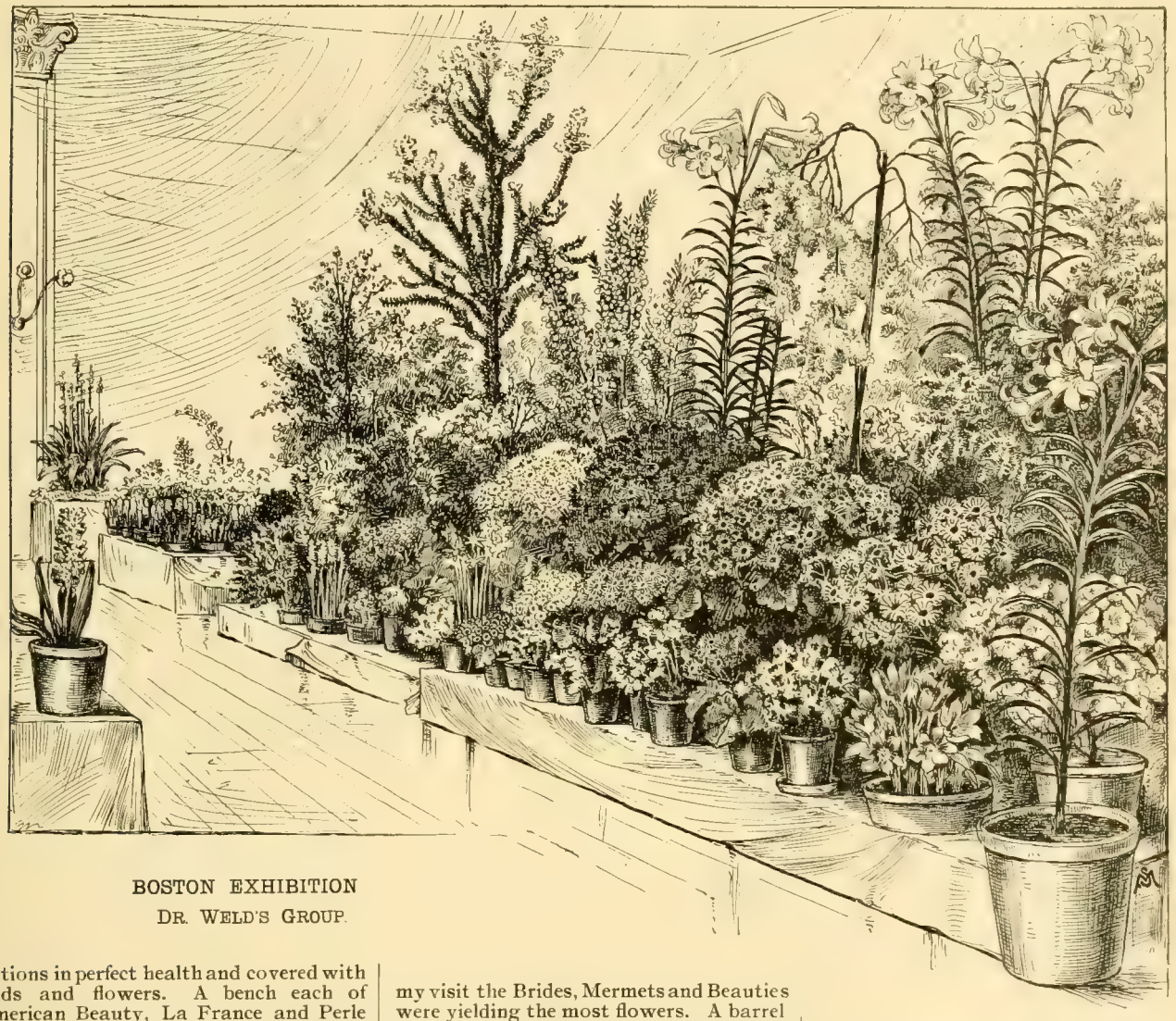
BOSTON EXHIBITION.

HARDY PLANTS AND SHRUBS, SHOWN BY THE BUSSEY INSTITUTION.

My Trip Continued.

A stage ride of four miles on a bright crisp February morning, by hundreds of acres of vineyards, brought me to Prospect Station, and a primitive station it is. As there was about a ton of dynamite piled up in boxes in the waiting room I preferred to walk the platform. A pleasant ride of 80 miles through Corry, Titusville, (where oil talk and derricks really begin), Oil City, and eight miles more by the banks of the broad and twisty Allegheny, brought me to the home of Wm. T. Bell and the really beautiful little city of Franklin, now famous beyond the borbers of Pennsylvania for having the finest stock farm in the country and the fastest trotter in the world (Sunol is there and Marvin too).

Mr. Bell's houses and residence are about a one-mile walk from the river and situated on a fine residence street. He has a fine substantially built place of seven houses, besides frames, etc., and a large commodious brick office. Three of the houses are 130x20 and attached. The outside walls are wood and the partition walls, 12 inches, solid brick. Order and system is very noticeable throughout the entire establishment. Mr. Bell supplies many small towns for miles around and keeps a general stock of plants in useful shipping sizes. His verbenas have for many years been noted for being absolutely healthy and are shipped to many distant points. In flowering crops the most noticeable was a house of car-



BOSTON EXHIBITION
DR. WELD'S GROUP.

nations in perfect health and covered with buds and flowers. A bench each of American Beauty, La France and Perle roses were in fine condition, all looking well, but the Beauties took the lead; grown upright and well cut back they were sending up good flowers as numerous as you sometimes see Bon Silenes. A good look round Mr. Bell's place and a five hours' chat with the proprietor I considered well worth the price of the whole journey.

The following morning I hired a horse and rig at Oil City and climbed three miles over the hills to the mammoth establishment of the "Oakwood Farm and Garden Co." It is difficult while traveling over the hills to realize that there is three or four acres to be found level enough in the county for greenhouses, but there is, with just the right slope to the south. They have 14 houses, each 300 feet long, half of them 20 feet broad and half of them about 12 feet. On the east end a large wide house runs the entire length of the 14 houses and on the west end is an enormous shed big enough for three or four teams to drive through abreast. This of course is used for the storing of soils, manure, etc., and a mighty useful place it must be. Detached from the big range are a half dozen small houses, the beginning of the establishment, which this summer will be pulled down and converted into another of the three-quarter span houses. Practically, nothing is grown here but roses. Beauties, La France, Mermets, Brides, Cusins and Niphetos fill the most space. Excepting the front benches all the roses are planted in solid beds. At the time of my visit the Brides, Mermets and Beauties were yielding the most flowers. A barrel of tobacco stems and a jet of steam at intervals along the houses keeps the fly entirely under. The whole place is heated with steam, generated of course by that great luxury, natural gas.

The next jump I made was to Bradford, McKean Co., Pa., the richest, most prolific and continuous oil field the world has ever seen. Bradford has all the style and bustle of a much larger town. Walking up Main street I found the city depot of Florist Rockwell, situated in the best business portion of the city. Although oil is desperately low, which makes all the difference in the world to business, Mr. R. did not complain, but said business was and had been good. In company with Mr. Rockwell I first visited the houses of Mr. George L. Graham on Jackson avenue. Mr. G. has two houses, each 100x18, one devoted to carnations and some other stock and the other entirely to roses. I must certainly give Mr. Graham the first prize for rose growing, at least of any I had seen in my short journey. They are grand, uniformly throughout the house. If some large establishments were producing in proportion to their glass the quantity of roses Mr. Graham is, this locality would be flooded. The kinds grown are Mermet, Bride, Perle and Cusin. Mr. G. is a pupil of John N. May, so that accounts for a good deal.

A drive of about one mile brought us to Mr. Rockwell's place. He has four good houses, nearly all occupied with flowering stuff for his city store. One house of carnations was particularly good. Mr. R. swears by Silver Spray for white. Along the front of a carnation bed was planted a row of freesia. This I am aware is often done, but not with such success. The flowers were there by the thousand and they certainly were not robbing the carnations.

Another mile further west is the entirely new houses of Mr. Miles S. Howe (Marilla Gardens). He has six well built new houses. Three of them are occupied with early vegetables and well they are done. Two of the largest houses are filled with roses and carnations and one with lilies and other stock, all of which is used up at his store on Main street. As eight inches of snow had fallen in three hours and a good portion of it had fallen on me, Mr. Rockwell, Mr. Graham and your humble servant were glad to get back to town. Mr. R. said there was something more to see. Following him we entered the St. James Hotel (a fine house). We saw it and felt better and it just gave me time to board the Rochester and Pittsburg train. A ride of 80 miles brought me home to Buffalo a wiser and a better man. G. S.

IT IS REPORTED that Congressman Caminetti of California has withdrawn, or will not call up, the bill introduced by him, and which threatened to kill the shipping trade in trees and plants.

Clubs Again.

It is a fact that the man who has the temerity to find fault with the existing state of things is in nine cases out of ten called a "crank," or, as Mr. W. J. Stewart classically puts it, a "pessimistic politician," but it can scarcely be said that my views as expressed in the FLORIST of February 25, under the above heading, are at all pessimistic, rather the contrary, in fact I hold quite optimistic opinions as to the future of the S. A. F., only I think that it must strike out new lines for itself before it can continue to do the good it has done in the past, and I have very little doubt but that the necessity of this will be seen and acted upon.

Now I still think that a list of essays "that would be productive of more benefit and provoke more discussion" might be gotten up, but after reading the letters of Messrs. May and Stewart it struck me, why could not these essays be printed in the FLORIST? and I began to doubt if any list of essays however good could compete on even terms with Washington Monument, the Capitol, the White House or Made's Hotel. So that if this view is taken we are reduced to the simple questions, what has the convention of the S. A. F. to give its members, outside of essays, besides the trade exhibit, the gathering together of the trade, the bowling tournament, sight seeing, banquets and the like? And are the advantages to be gained (leaving out the essays) sufficient to warrant the amount of energy and money expended to procure them? I notice that neither Mr. May nor Mr. Stewart touch on the points, absence of discussion after reading essays and "lack of result from the amount of energy and money expended."

I am aware that many of the members of the S. A. F. make the occasion of the convention their annual outing, and I am aware that they need an annual outing badly enough and I should be the last to object to their having a good old fashioned time during that annual outing if they feel so inclined. I am not one of those who would wish to put them on a diet of porridge, tea and coffee, but I scarcely think that the executive committee or the founders of the S. A. F. would like the convention to develop into an annual trade picnic which, horticulturally speaking, would be the "nowhere" I mentioned in my letter.

The honorable member from Boston, friend Stewart, expresses the belief that I do not feel half so bad about this question as my writing would indicate (and I must here beg to thank him for the kindly way he speaks of me; our relations with each other before and during the convention were certainly very pleasant and I trust they may always continue to be of the same nature). Well, I can't say that I have been worrying about it sufficiently to lose any flesh, but I suppose that having probably formed too high expectations concerning the S. A. F. the disappointment at not seeing any indications that these expectations were likely to be realized just yet produced the ideas expressed in my article "Clubs Again," and I cannot say that either Mr. May's or Mr. Stewart's suggestions as to my preparing a list of essays, stuffing the question box, etc., etc., have lessened the disappointment in any degree.

With a few more letters after the style of Mr. Whitnall's there would soon be matter enough, if acted upon, to galvanize new life into the present rather rheumatic bones of the S. A. F., and I think that if Mr. May, instead of indulging in "veiled sarcasm" to a considerable extent, had shown some disposition to at least try and find out whether there was not really some cause for complaint, his letter would have carried more weight. My article was not written just for the amusement of creating a "racket," nor with the idea of doing any injury or belittling the society or any of its officers or members, but with the intention of calling attention to the fact that to do any good the S. A. F. must *lead the van*. Brains enough were found to start the S. A. F. and to keep it going so far and I feel sure that there are brains enough in the country, I will say even in the executive committee, to devise plans whereby the society may always be enabled to say "we are the first to touch unknown seas." It is very pleasant and easy to run along in grooves, but to keep ahead it is necessary to keep a sharp lookout that someone does not make a short cut and "get there" first.

A. H. EWING.

Normal Schools, Toronto, Mar. 25, '92.



Training Chrysanthemums.

I should like your opinion, or the opinion of any of your readers, on the best or most desirable way of training chrysanthemums for show.

I think the custom of using so many sticks should be discouraged, as they look so unsightly, especially when the sticks are large and the foliage poor. We know they must have supports, but could not fine wire be used, worked from a strong center stake to wire hoop fastened to rim of pot? Fine galvanized wire I think would be best if it can be had.

Any remarks or suggestions from your readers will be of interest to G.

Notes on Foliage Plants.

Fittonias: These pretty little foliage plants are among those available for planting in small ferneries or for mingling among others in some table decorations, and may therefore be safely included in the stock of a retail florist.

It is admitted that they are not as hardy as some other species that are more generally used for this purpose, but at the same time they will stand long enough to be very effective in such arrangements, and being easy to grow and to propagate removes any difficulty in keeping up a supply. Moderate shade, a moist atmosphere and a temperature of about 60° are the chief requisites for their successful cultivation, and increase is readily effected by means of cuttings.

Four varieties of fittonia are about all that are recognized, and among these F. argyroneura is perhaps the most useful, its ovate leaves being about three inches long, dark green in ground color and netted with silvery white lines.

F. gigantea is also a good one and of larger growth than the above, and being variegated with pink instead of the white of the preceding variety.

F. Verschaffelti and F. Pearcei are the other two members of this interesting group, and both of which have midrib and veins lined out with red or dark pink, the colors varying somewhat with the age of the foliage, though F. Verschaffelti is rather the stronger grower of the two.

It may also be noted that these plants are of creeping habit and another use for them may be found by planting them on the surface of the pots of large plants used for decorating, after the same manner that Selaginella Kraussiana is frequently used.

Peperomias: These pretty little stove plants are now occasionally enquired for, and doubtless would be much more extensively used were their merits better understood, their leaves being of such thick and fleshy texture that they stand exposure to the dry air of a dwelling for a considerable period.

The peperomias also are best suited when protected from the full sunlight and grow well in about the same temperature as that recommended for fittonias, but will flourish with much less water than is necessary for the well being of the latter.

The propagation of peperomias is quite an easy matter, and is usually managed in the same manner that Rex begonias are multiplied, namely, by leaf cuttings, these being put in a cutting bed in a warm house, the only care necessary being not to overwater them.

In the matter of soil they are not very exacting, but a light, sandy compost is usually most satisfactory, and if reasonable care be given in watering no difficulty will be had in securing a good result.

Among those readily procurable there is none better than P. Saundersii (perhaps more easily recognized under its old name of P. Verschaffelti), the somewhat ovate leaves of which are chiefly silvery white in color, while the veins are outlined in bright green. This makes a compact little plant, and like most of the genus is very well adapted for house culture.

P. maculosa is pehaps less widely known than the above mentioned and has leaves of somewhat similar shape and bright green color, the stalks of which are more or less mottled with reddish purple.

Still another good one is P. marmorata, a species of quite dwarf habit and the leaves of which are variegated with white though not to so great an extent as those of P. Saundersii.

P. resedæflora is also quite a pretty little species, having small dark green leaves on short stems and also producing spikes of small white flowers, these bearing some resemblance to those of mignonette.

Hoffmannias: These old fashioned stove plants are probably better known under their former name of campylobotrys than by their correct title, but, be that as it may, the fact remains that they are both pretty and easily grown and deserve a place among decorative subjects while in a young state, though they are apt to become somewhat leggy when kept on hand too long.

H. refulgens is one handsome member of this genus, the leaves of which are from four to five inches long and reddish in color, and another is H. Ghiesbreghtii var., this being more highly colored than the type, the leaves being marbled with white, yellow and various shades of red.

The two varieties noted above are probably the best of the genus, though H. discolor is also pretty, its foliage being dull green on the upper side, while beneath it is suffused with red.

W. H. TAPLIN.



DOUBLE FLOWERING PLUM (PRUNUS TRILOBA).

Double Flowering Plum.

Apropos to the article in the AMERICAN FLORIST for March 10 by Mr. Falconer on ornamental trees and shrubs for florists' stock, I forward you photograph of a double flowering plum (Prunus triloba) and which confirms what he says in regard to handsome shrubs being object lessons to the customers of local florists. Every visitor to my place, after seeing this in bloom, wants to purchase a plant of it. The specimen shown has been planted about twelve years and at the base has a diameter of fifteen feet and stands about eight to ten feet high, each stem before the leaves expand being covered with bright red buds and pink flowers of the size shown.

Some seasons it is in bloom for late Easter when it is a bonanza, and its long stems, from five to six feet long, thickly filled with flowers, are a delightful addition to the stock of usual flowers for that season, as every one naturally tends to spring flowers after a long and dreary winter. This plum is very hardy and free from insects. It is said to be subject to the fire-blight that affects apple trees, but my observation and experience leads me to believe that thorough drainage is a sure preventive, as during the past five years of partial drought no fire-blight has been observed on apple or other trees in this vicinity. J. T. TEMPLE.

Davenport, Iowa.

Shade Trees in Cities.

In a climate like this, trees on the sidewalks afford a most grateful shade in hot summer weather, at the same time they can not be regarded as an unmixed good, for in many cases as they reach maturity they crowd the sidewalks and the roots frequently tilt up the pavement in such a way as to mar the comfort of pedestrians. Much of the inconvenience so caused can be avoided by planting the trees 10 or 12 inches below the collar or base of the stem instead of barely covering the roots as is not infrequently the case. By so doing the large spreading roots, especially of such trees as the elm, would not be apt to reach near enough to the surface of the ground to do harm.

I am aware that deep planting is not considered good in practice and is opposed to the method nature pursues in performing her work without the intervention of man, and therefore should be avoided on all possible occasions, more especially in the case of such trees which do not readily emit roots from the portion of the stem which may be underground. But in this case we are constrained to choose between two evils, the least of which is to plant deeper than in ordinary circumstances to secure the greatest good. The trees, under this treatment, will grow sufficiently well for shade, and the barbarous practice so common of hacking off the protruding roots will be avoided.

New Haven, Conn. A. VEITCH.

Orchids at Scranton, Pa.

We deemed it of sufficient importance to make a special trip to Scranton to see a truly splendid piece of Cattleya Mendellii with 65 expanded flowers, grown by Wm. Clark, gardener for Col. Boies. This piece is growing in a basket 24x18 inches and was purchased at Messrs. Youngs' sale for a few dollars 2 years ago. Other orchids in equally good condition were Dendrobium thyrsiflorum, Cattleya Trianæ, Phalænopsis Schilleriana, Cattleyas Warnerii and citrina. A plant of the rare Cypripedium grande, offspring of C. caudatum X longifolium, was also in good condition. Mr. Clark pronounces this one of the freest of all cypripediums, and certainly it appeared to be growing almost like a weed.

G. E. FANCOURT.

Store Trade.

This department will be devoted to matters of interest to the retail, or store florist. Communications invited.

Slavery Days.

In a communication with the above suggestive title an employe in a retail store sets forth the peculiar character of one of his employers. Such tales are not infrequent and that some are based upon fact can not be gainsaid though all stories generally have two sides. Were it not for the fact that there is a moral—with a capital M—to the tale, we should not give space to this mention.

Our correspondent relates that before going to work he obtained a written contract for a year that seemed on the face of it to give him a fair deal, but that while he was rigidly held to every stipulation in favor of the employer, the latter's obligations in the same instrument were nearly all disregarded. Further that while the salary was a fair one he was made to work nearly two weeks in one—a neat way of cutting his salary in two.

According to our correspondent's story this enterprising man would keep orders in his pocket until toward closing time, so as to give his men work to do every night and have them entirely unoccupied, except to wait on customers, during the day. Our correspondent also states that one holiday week, when Christmas came

on a Saturday, he went to work at 7 a. m. Friday, and worked steadily until 10 a. m. Saturday, expecting to get through about 1 or 2 in the afternoon, but his enterprising employer kept the store open all day, and then, having received a funeral order, he kept all hands until 3 o'clock Sunday morning, so that our correspondent did not close his eyes from 7 a. m. Friday until 3 a. m. Sunday. He was then asked to be at the store by 8 a. m. the same morning. He made an attempt to comply and arrived at 10 minutes after 8. His employer stood in the store, with his watch in his hand, and scowled at him savagely as though he had lost half a day. During all this time, our correspondent says, he never received a present of any kind, no extra pay, and never a cent for his supper when he worked nights.

He further describes his employer as one who will treat a man splendidly until he gets a hold on him. Will loan him money, etc., but when he gets a good grip on him and has him tied up financially he will put the screws on and pinch him just as hard as he can. He further depicts him as a man who is as pleasant as could be wished to everyone except his employes, and his motto seems to be "It pays to be pleasant to everyone except your employes."

Now for the moral: As our correspondent says in substance: If all young men would save enough money to fall back upon in case of an emergency they would never be obliged to put up with the tyranny and insults of such mean individuals as he has described. It is good gospel though it comes from one who failed to practice what he now preaches.

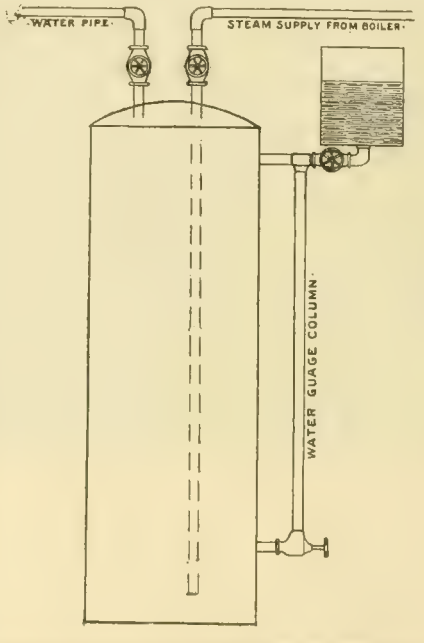
Another idea suggested by our correspondent is that there be an organization of employes of florists, through which members may be warned against such men as he has described, so that others may be saved from his bitter experience.

The FLORIST is always in favor of organization, provided it is upon a broad platform. An organization of florists' employes, if designed to educate and elevate its members and so conducted as to conduce to these desirable ends, would be an excellent thing, and the complaints of members regarding employers could be placed on file with the secretary for the inspection of other members.

This would probably be an excellent thing, for the natural result would be the formation of an organization by the employers, who would unitedly compile a list of the poor sticks and bad eggs of employes that now manage to hold places for a few weeks at a time only. And this weeding out would be vastly to the benefit of the really valuable employes as well as to the employers.

Fumigating with Tobacco Juice.

In the stoke-hole or boiler pit we have in one corner a cylinder, which holds about 50 gallons. Connected with our steam boiler is a ¾ inch pipe, which passes through the head and descends to within 6 inches of the bottom of the cylinder; this is a supply steam pipe, to boil the fluid and raise it to any pressure required. Also, connected with the top or head of cylinder, is the water pipe, the same that supplies the houses. Connected also with top of cylinder is a small tobacco tank capable of holding 5 or 6 gallons of the extract and of which we can supply to cylinder any quantity desired by an X L valve connected with same close to cylinder. With further experience we find that a small quantity of fluid is all that is necessay at a time, say one gallon, and no addition of water is needed, as the steam continually passing from boiler into fluid is all that is required. We have also two other X L valves connected close to head of cylinder to control, one the supply of steam, the other the evaporized juice. So having let one gallon of the liquid from supply tank to cylinder, close the valve and open steam supply valve. In a few moments the juice is at boiling point. Now open water pipe valve, then go into the house or houses, opening any of the faucets where the aphis is troublesome, and in 30 minutes at the most it will destroy



the most venerable greenfly, although as with other systems it is far better to be used lightly now and then as a preventive rather than a cure.

We find the system has the following advantages: No possible danger to the most delicate flower; instantly applied; no hindrance from other work; no necessity of being in the fumes; no space taken up with large tobacco bales; cleanliness and effectiveness.

We get the tobacco juice from a Louisville tobacco firm. They manufacture it for sheep dip and claim it to be absolutely pure tobacco extract.

Anchorage, Ky. C. RAYNER.

The Fisheries Building at the World's Fair.

The Fisheries Building embraces a large central structure with two smaller polygonal buildings connected with it on either end by arcades. The extreme length of the building is 1,100 feet and the width 200 feet. It is located to the northward of the United States Government Building. In the central portion is the general Fisheries exhibit. In one of the polygonal buildings is the Angling exhibit and in the other the Aquaria. The exterior of the building is Spanish-Romanesque, which contrasts agreeably in appearance with that of the other buildings. To the close observer the exterior of the building can not fail to be exceedingly interesting, for the architect exerted all his ingenuity in arranging innumerable forms of capitals, modillions, brackets, cornices and other ornamental details, using only fish and other sea forms for his motif of design. The roof of the building is of old Spanish tile, and the side walls of pleasing color. The cost is about $200,000.

In the center of the polygonal building is a rotunda 60 feet in diameter, in the middle of which is a basin or pool 26 feet wide, from which rises a towering mass of rocks, covered with moss and lichens. From clefts and crevices in the rocks crystal streams of water gush and drop to the masses of reeds, rushes and ornamental semi-aquatic plants in the basin below. In this pool gorgeous gold fishes, golden ides, golden tench and other fishes disport. From the rotunda one side of the larger series of Aquaria may be viewed. These are ten in number and have a capacity of 7,000 to 27,000 gallons of water each.

New York.

Trade is particularly quiet this week and flowers plentiful. The highest priced rose at present is Brunner; it is even ahead of the Beauty and is unquestionably the finest of the hybrids just now. Roses in quantity are sold as low as $15 or $20 a thousand—good flowers, too. Beauties are extremely plentiful, as may be guessed by seeing them in the hands of the street fakirs. These street venders sell a tremendous quantity of stuff at this season; they continue to multiply year by year, and there is no doubt they sell a lot of stuff to people who would not go into a store to buy, so they benefit the grower at least.

Without realizing high prices bulb stuff sells well, both plants and cut flowers. Valley is much finer than it was; Asmus is cutting a very good crop at present.

Thorley has flat square baskets with high square handle filled with bulbs, just a mass of one variety; a bow of corresponding ribbon is tied on the handle. The effect is very good, either with Dutch hyacinths or tulips.

Hodgson has been arranging some fine decorations with rhododendrons. There are not very many in flower yet, though some of the tender ones seem capable of early forcing.

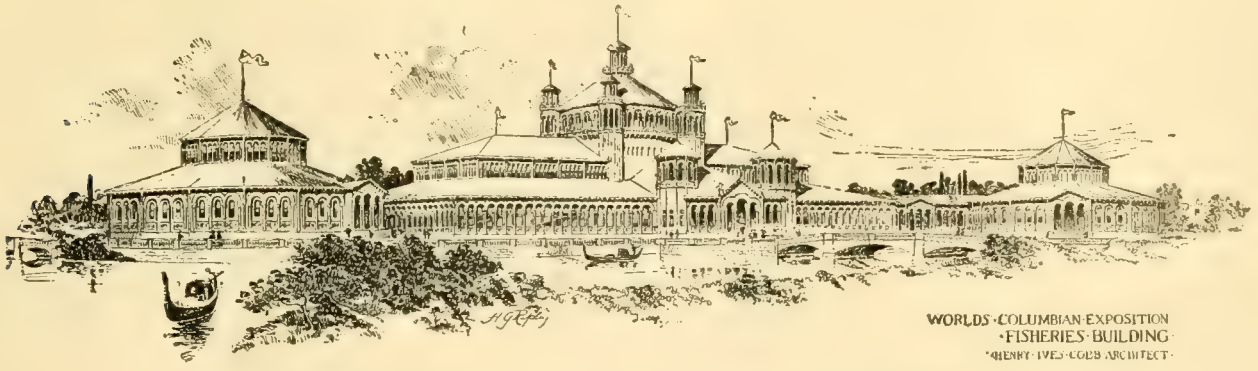
There appears to be a temporary scarcity of decorative ferns in small sizes in this vicinity. The retailers use them in unlimited quantity; in fact, the fern trade is in a very healthy condition.

Alex Burns finds himself quite busy with dinner orders, but says prices are not very good.

Mr. Dimmock has returned from a western trip and reports a rough time on the road through New York State where the big snow storm was most severe.

Mr. C. L. Allen has also returned from the west, having spent two weeks in traveling. He returns full of enthusiasm for western energy, declaring that with their present rate of progress the western men are likely to practically control the seed trade within a few years. Mr. Allen also gives high praise to the western florists. Among others he visited H. W. Buckbee, of Rockford, Ill., who he declares had some of the finest La France and Mermets he ever saw, east or west. Mr. Buckbee's place was highly praised both for fine houses and fine stuff.

S. C. Nash, of Clifton, N. J., who is chiefly known by the fine Beauties he has been growing for several seasons, is now going to make a trial of aquatics, in which he takes much interest. This class of plants attracts much interest now, like orchids; people are learning that it is possible to grow very handsome members



THE FISHERIES BUILDING, WORLD'S COLUMBIAN EXPOSITION.

of both classes without extreme difficulty.

Some exceptionally fine table decorations were to be seen at the recent Mi-Careme fete in aid of the Orthopedic Hospital. This affair, which was a notable society event, was called "From market to table," showing the preparation and serving of food in the best style. There were five decorated dinner tables. That in honor of the lady patronesses was round in shape; it had a large round centerpiece composed of Cypripedium insigne and Lawrenceanum, phalænopsis and cattleya. Radiating from the centerpiece were broad sashes of pistachio green ribbon, which passed over each cover; each sash was decorated with an exquisitely painted bunch of cypripediums, while the guest's name was painted on it in gold. Where the sashes met the centerpiece they were looped so as to form a border around the flowers.

Another dainty table in white and gold was heart shaped. The decoration was a large heart of lily of the valley, with a border of Bride roses. A little golden acacia was mingled in the border, and a large arrow tied with a white sash pierced the heart.

The fashionable fleur de lys form was seen in another table; the flower decoration was formed by heavy ropes of violets, outlining the petals of the fleur de lys. This table was not only extremely artistic but deserves special note for the novelty of the shape, which is now such a highly favored figure in decoration of all sorts.

A fourth table took the form of an open fan. The table itself formed the semicircular body of the fan, while the sticks were represented by ribbon sashes, alternately pink and pale green, which met under a huge knot and ends of ribbon. The floral arrangement consisted of pot plants, hybrid roses, daisies and palms, filling the space under the ribbons and peeping above the simulated sticks with a charming irregularity. This fan table is a style much approved for wedding dinners.

The fifth table, arranged for six guests, was diamond shaped. Instead of a conventional centerpiece the decoration was at one end of the diamond, so that all the guests faced it. It consisted of a huge pink horn of plenty, pouring its burden of flowers over the table. It was filled on one side with a mass of Mermet roses, while the other side consisted of daffodils and acacia. This makes a very desirable table for a small party.

These decorations were all arranged by Siebrect & Wadley and are calculated to add much to the reputation of that firm.

It is noticeable that pink and yellow continue to enjoy high favor in all house decorations. This winter has seen a decided increase in the number of orchid flowers used. We hear a whisper in the trade that the Beauty, which has been *the* rose for so many seasons, may yet have to abdicate in favor of some fairer rivals. The retailers find it pretty hard to make much out of this rose, even when it is sold for a high price, but they have to sell it to meet a popular demand.

Chicago.

There were no essays at the last meeting of the Florist Club, but a good program for future meetings was made up. At the next meeting Mr. E. Buettner will present his deferred essay on the violet and Mr. J. T. Anthony will also read a paper upon a subject of his own selection. At the following meeting Mr. John Thorpe will treat upon the growing of exhibition chrysanthemum plants and flowers and at the meeting succeeding this Mr. Frank Leslie will bring up some subject of his own selection.

The lawyer who had undertaken to prepare a written opinion upon the legal points in the proposed war upon the cemeteries who had gone into the business of growing cut flowers for market, had left the document at his suburban home and the matter had to be laid over for still another meeting.

One new member was added to the roll in the person of Mr. Harry Balsley of Detroit, who was present at the meeting. Messrs. J. G. Whilldin and W. Mott of Philadelphia were also present as visitors.

Mr. Frank Leslie spoke of the reports that had appeared in the FLORIST of Lilium Harrisii with single stems bearing as many as 14 to 15 flowers and told of a lot of bulbs he had grown, of which none bore less than 14 flowers to a stem and some with as many as 21, all first class blooms. He related his experience in investing in full sets of new chrysanthemums and said he would make no more such investments. His experience was that as a usual thing the sets contained one or two good things and the rest of the number was made up of sorts only fit for the rubbish pile. Touching upon the matter of exhibition flowers of chrysanthemums he said he had cut his number of varieties down from 170 to 21 and increased the number of each variety so that he could now have a much better selection of flowers of each variety to pick out show blooms from.

Mr. Thorpe said that the project of an international chrysanthemum show was now being considered by a committee of the local directory of the World's Fair and action was being taken looking to overcoming a technicality that might be so construed as to prevent the taking of an admission fee for entrance to the grounds prior to the opening of the fair in '93. He believed that this point would be satisfactorily adjusted and that the exhibition would not only be held, but would be one worthy of the great occasion.

In addition to the club visitors noted there were present in the city during the past week, James Currie, Milwaukee, J. A. Peterson, Cincinnati, and Mr. Mertz of the French syndicate of bulb growers.

Trade for the last week has been spasmodic and irregular and prices are unsettled. There is no apparent glut of any particular stock excepting callas; these are slaughtered sometimes at prices almost next to nothing. Roses are suffering somewhat but hold to fair prices on the whole. Good stock, such as Mermets, Brides and La France, bring $4, and specially fine lots as high as $5. Gontiers and Perles go at 3 to 4. Carnations held their own right through the season. The demand keeps brisk and good long stemmed flowers sell readily at $1.50. Violets are quite plentiful, but there is no great overstock. Prices run from 75 cents to $1 for good stock.

W. N. Rudd, Mt. Greenwood, is sending in some very fine Brunners and Laings, which find a ready market.

Bulb stuff of all kinds is scarce, tulips in particular; valley also is not over-abundant, good stock commanding a good price. Harrisiis are coming in freely and sell rather slow.

Smilax is extraordinarily scarce and sells at 25 cents a string, the highest price paid for years.

Albert Fuchs, a north side florist, last week attempted to convict an employe of embezzlement and larceny of palms. Only Mr. F. and his wife furnished important evidence for the state, while the defence had a score or more of witnesses to testify that Mr. Fuchs' general reputation for truth and veracity was bad. When the judge, after an hour's hearing, instructed the jury to return a verdict of not guilty there was a feeling in the court room that the prosecuting witness, rather than the defendant, had been on trial. A number of prominent members of the trade were subpœned and came not unwillingly, since it seemed to be a case of persecution.

Mr. R. Ullrich of the landscape department of the World's Fair was very seriously injured last Saturday while alighting from a moving train on the Illinois

Central at 61st street. While no bones were broken he was seriously injured internally and it will probably be a long time before he will be able to resume his duties. Mr. Ullrich had made many friends during his stay here and all wish for his speedy recovery.

The quarterly meeting of the Horticultural Society of Chicago will be held in the club room of the Sherman House at 3:30 p. m. Saturday, April 9. A very interesting program is promised.

Baltimore.

That must be a peculiar sort of individual who could not find weather to his liking on some one day of the past seven here, for we have had the deepest snow of the season, one day with a temperature of 13°, one with a temperature of 65°, bright sunshine, thick clouds, rain and even a little dust all in the one short week. This is the weather that puts frost on the growers' hair as well as his glass and even adds to the cares of the haughty dealer, for when he has secured a big order who can tell him whether the growers upon whom he leans may not prove broken reeds, and that through no fault of theirs but owing to the utter uncertainty of the weather.

Still in spite of the weather flowers continue to come in in fair quality and sufficient quantity, and after they are in to sell, thanks to the solemnities of society such as amateur theatricals, bazars, fairs etc., all of which in the accounts which appear in the daily papers of them have the word charity prefixed or affixed or stuck on somehow. Surely "charity covereth a multitude of—amusements." However, so long as they help to make the pot boil, these entertainments are charitable to the florist and caterer if to no one else, and the scribe believes in "praising the bridge that carries one over."

Prices continue the same. Really first class buds command as good prices as before Lent began. Violets are plentiful at 50 cents and are keeping up very well this week in size and color. Dutch hyacinths may be seen on every hand, some fine ones bringing 25 cents each at retail, but more selling at from 12½ cents to 15 cents. Astilbe is beginning to be seen, and a few hybrid roses, but not in any quantity. An occasional rhododendron or hydrangea that has bloomed ahead of its owner's desire is met with in the stores, but the demand is not for plants yet and will not be for two weeks or more.

MACK.

Boston.

The retail florists report a sort of half and half trade, not busy enough to be called brisk and not slow enough to call dull, rather intermittent and hard to put any dependence upon, but with life enough to demand constant attention.

The production of flowers of the ordinary market kinds has not been as heavy as is usual at this time of the year, presumably on account of the tardiness of spring weather in appearing, so it is that Lent is slipping along very smoothly and is already half gone without having caused other than a few spasmodic periods of glut. Roses of most kinds are fairly plenty. One peculiar feature of this market is the great difference between the ordinary market figures on certain roses and the fancy prices obtained by those growers who have specially fine specimens to offer. For instance, while plenty of fair quality Mermets, Brides and Wabans may be bought for $6 per 100, yet as high as $3 per dozen is realized by certain parties for these same varieties, when effort is made to produce extra large and perfect blooms. Jacqs are in good supply and bring all the way from $10 to $20 per 100 according to quality. Carnations are none too plenty. Indeed the supply of long stemmed white ones is not large enough and there is no trouble to get $2.50 per 100 for such.

Bulbous stuff is not badly overstocked, double daffodils being short and tulips coming in just about the right quantity. Lily of the valley is the most abundant flower in this class and is lower in price than at a corresponding period last year. Harrisii lilies are selling at fair prices as fast as brought in. Smilax is very scarce indeed, as is always the case in April. Violets are first class in quality. A large proportion of those now coming in are from frames undoubtedly.

The popularity and attractiveness of the pansy was well illustrated by the crowds of people, mostly women, about Galvin Bros.' window, in which were displayed the two dishes of Zirngiebel's pansies which received the first premium at the exhibition.

Among the novelties now in market are gladioluses and sweet peas.

The exhibition was well attended by the craftsmen from the neighboring New England towns, but the attendance from a distance was lighter than usual. W. A. Manda, of Short Hills, N. J., and H. A. Siebrecht, of New Rochelle, N. Y., were among the interested lookers-on at the game of the G. and F. Bowling Club at the Brookline street alleys on Wednesday afternoon, and Mr. Manda tried his hand at the balls with his usual powerfulness and customary good luck.

One of our florists is still laughing over an order he received recently. It began thus: "Mr. H., please make up something suitable for an old lady's corpse."

Philadelphia.

The Lenten season has lost but little to the florists about here as there seems to be plenty to do and quite a good demand for good flowers at fair prices. There has really been no glut and prices have held up very well. The cheapest roses are Perles and Gontiers at from 4 to 5, while Mermets and Brides bring 6 to 8, hybrids 25 to 50. Burton is sending in some very fine Baroness which are in great demand. Spring Jacqs are about and bring from 10 to 15.

Easter stuff is coming on very well as far as we can hear. The best is being rapidly bought up and for some things no more orders are taken. There are a good many lilies about, but we believe they will all be needed, if in fact there will be enough for the Easter trade. There has been a great demand for them the past week and it was hard work to get nice plants in flower, they brought from 10 to 12 a flower and bud.

The boys turned out nobly on Sunday and under the guidance of John Westcott Horticultural Hall soon began to look like another place, in fact it became a "veritable bower of beauty;" that is what Brother Watson, who has charge of feeding the press, called it.

If Caldwell, the gentleman who lives on various things, calla lilies included, could find nourishment in fine words, he would certainly be strengthened by what was said of him to-day if he could have heard it. He certainly did the grand for the Horticultural Society, as the hall was beautifully decorated with palm leaves, crowns, wild smilax and needle pines and all with his compliments. He will hear from the boys in no uncertain way very soon.

The prospects for the show are very good, the entries, particularly in the cut flower department, being very large. If the weather is fine the exhibition will certainly be a success.

The bowling matches of the first, second and third classes for prizes offered by the club house committee were all finished last week. Anderson, in the first class, was sick, but recovered in time to roll off his games and made a great spurt at the finish. He was three matches behind, nine games, and made an average of over 160 pins to a game. This was great rolling, but on Saturday last in a match game he rolled in three games 566, making 232 in one game, breaking the record for three games in a match. The following is the score:

Winner in first class, G. McLean.

		Games.	Pins.
1.	G. McLean	36	5580
2.	G. Anderson	36	5535
3.	C. Longinett	36	5496
4.	L. Brown	36	5444
5.	J. Westcott	36	5443
6.	I. Kennedy	36	5427
7.	R. Heron	36	5416
8.	G. Craig	36	5155
9.	Wm. K. Harris	36	5030
10.	R. Kift	36	4981
11.	W. Baker	33	4692
12.	E. Lonsdale	24	3339
13.	W. Colflesh	15	2083

Winner in second class, G. Campbell.

1.	G. Campbell	36	5286
2.	J. Nisbet	36	4926
3.	J. Crawford	36	4552
4.	M. Rice	36	4495
5.	A. Lutz	36	4474

Winner in third class, C. A. Knapp.

1.	C. A. Knapp	36	4636
2.	G. Watson	36	4627
3.	W. Craig	36	4494
4.	G. Thomas	36	4362
5.	W. Fancourt	33	4259
6.	W. Eaton	36	3817
7.	F. Ehret	36	3793
8.	F. Whiteley	15	1469
9.	D. Bearn	12	1429

Toronto.

Mr. Jos. Spring, late head gardener to D. J. Hoskin, of this city, takes his departure for Chicago next week in search of something better. Mr. S. has had under his charge a fine collection of orchids, stove and greenhouse plants, etc., and always had a fine show of bloom in his houses. He was also very successful in growing chrysanthemums last year, taking firsts in many sections. Mr. Chas. Glitherow, the second gardener, will succeed him.

Flowers of all kinds in season are plentiful and prices low. Trade is just fair for Lent.

The Gardeners' and Florists' Association had a treat one night last week at the Public Library, where all the horticultural works had been gathered together into one room. About 50 members availed themselves of the opportunity of seeing some of the best works in existence. The orchid growers found it hard to tear themselves away from "Reichenbachia;" landscape gardeners wanted to spend the night with "Les promenades de Paris;" others buried themselves in botanical books and musty old volumes that seldom saw the daylight. Altogether a most pleasant and instructive evening was spent; may it be repeated at an early date.

E.



A GOOD EXAMPLE OF HOW NOT TO DO IT.

Indianapolis.

The chrysanthemum show committee of the Society of Indiana Florists met in this city March 23, there being present Messrs. Dorner of Lafayette, Hill and Bissel of Richmond, Coles of Kokomo, Hunt of Terre Haute, Carmody of Evansville, Stuart of Anderson and Rieman, Wiegand, Huntington, Hartje, W. and J. Bertermann and Truemper of this city. Every one of the committee was interested about making the next exhibition superior to any yet held; this will be our sixth annual show and it will be held from next November 15 to 19 inclusive. An artistic certificate of merit has been designed and will be issued to winners at the next exhibition. The regular premium list amounts to about $1,000 and there are good prospects for a very liberal list of special premiums also. A premium of $100 will be offered by the Indianapolis Florists' Club. It was decided to have music afternoons and evenings during the exhibition. Another meeting of the committee will be held at the Washington convention of the S. A. F. The officers of the exhibition committee are Fred Dorner, chairman; William J. Berterman, secretary, 37 Massachusetts avenue, Indianapolis; John Hartje, assistant secretary; F. C. Huntington, treasurer.

A few beautiful specimens of La France, Bride and Mermet roses were shown at the meeting by Walter Coles of Kokomo; they were very fine. B.

Montreal.

The annual meeting of the Gardeners' and Florists' Club took place on the 22d inst. The secretary's report showed a membership of 79, the number of papers read during the year 16, beside which the question box has been used largely and many interesting discussions resulted from its use. The treasurer's report showed that the expenses had just about swallowed up the income (the chrysanthemum show being answerable for this chiefly).

The elections were then proceeded with and resulted as follows: Pres., Jas. McKenna, re-elected; 1st Vice-Pres., John Walsh, re-elected; 2d Vice-Pres., George Trussell, re-elected; Sec'y, H. Stocking; Asst. Sec'y, J. Kirkwood; Cor. Sec'y, Jos. Bennett; Treas., J. Dunbar; Com., A. Wilshire, J. Perrin, Geo. Robinson, Jas. Nairn and W. Ward. C. Campbell, J. Eddy and J. Nairn acted as tellers. During the time the ballots were being counted T. McAnulty amused the boys with a couple of songs. The "professor" could not be prevailed upon to assist this year as he was only just recovering from an attack of the "grip." We are going to try some experiments with judging at our spring show. Will report how they turn out later on. The spring exhibition will be held April 13 and 14. J. B.

St. Louis.

Trade during the past week has been very satisfactory. The weather has shown a tendency to improve for we have had a few days of sunshine. The lack of this necessity has given the growers just cause to grumble during the past season.

Mr. A. Meyer grows a large stock and variety of ivy leaf geraniums. His favorite seems to be Chas. Turner, which is indeed a fine variety. He also goes in quite heavily for mignonette. Your correspondent found everything in tip top order at the above establishment and he takes pleasure in saying so.

The flower stores just now are, for the most part, decked with spring array and are veritable places of beauty. The windows of the Jordan Floral Co., Young & Sons, and the Ayres Floral Co. are especially attractive.

The last named firm were showing some extra fine cinerarias when the writer visited there last.

Mr. Armstrong is growing some fine carnations and hybrids. Sanders & Beneke have just had plate glass put in their store windows. J. W. D.

Cincinnati.

Mr. Walter Gray, the rose grower at College Hill, has only recently recovered from a severe attack of quinsy.

Joseph Scholz has taken unto himself a wife.

Ernest W. Mack has succeeded F. A. Peters at Price Hill.

George Magrie has succeeded to the business of his father, late of College Hill.

A Good Example of How Not to Do It.

The illustration is the reproduction of a photograph that I found at a prominent photographer's, which was by no means the worst that he had.

We of course realize that this class of work is far below the average, but it is well for us to know that such work is being turned out every day and in a manner comes in direct competition with us all and indirectly affects the whole trade.

Is it any wonder that there is a cry against funeral designs when such *designs* are let loose on a confiding public?

I count four dozen roses, but not one rose leaf. See how carefully and with what success the "valley" is concealed. We know that there is such a thing as color blindness and this cross would lead one to think that there is such a defect as proportion blindness, else how could anyone that had ever looked at a symmetrical cross ever commit the error so marked in this one.

It is possible to place a cross at such an angle when it is being photographed that it will seem out of proportion, but this is not the case in this instance, as you will notice that eight roses are used on each arm and only four on top. In addition to the forty-eight roses we count the following named flowers: 24 bouvardia, 12 carnations, 12 valley, 10 Maiden Hair ferns, 10 roses, 12 forget-me-nots and a little smilax.

We contend that by leaving out all of the above named flowers and using plenty of rose foliage not only would the effect have been better but the profit greater.

H. H. BATTLES.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By experienced gardener, single, age 25; English. Private place preferred. Best of references given. Address
E S, 294 Juneau Ave., Milwaukee, Wis.

SITUATION WANTED—By a young man; good plantsman; single. Private or commercial. Would like position in the west. Address
JOHN MCCORMICK, 542 E 82nd St., New York.

SITUATION WANTED—By married man, aged 28, as gardener, private place preferred; references good from last place where I worked 5 years. Address C L, care American Florist.

SITUATION WANTED—By a good gardener; first-class rose grower and forcing bulbs. Married; German; 10 years' experience in both country.
C D, care A. Gundersen, 157 N. May St., Chicago.

SITUATION WANTED—By a thorough, practical florist and gardener private or commercial place, 8 years' experience. Best of reference. Address, stating wages. H. OLSEN, 25 Fry st., Chicago.

SITUATION WANTED—By a gardener of thorough experience as propagator and grower of decorative, stove and bedding plants. Commercial place preferred. First-class recommendations.
JAS. POWER, 67 Bromfield St., Boston, Mass.

SITUATION WANTED—In a wholesale store by a young man of 22. Has worked several years in the flower trade; is a competent bookkeeper; graduate from business college; good penman. A 1 references. Address H K, care American Florist.

SITUATION WANTED—By a first class gardener, as manager on large private place; have 14 years experience in all the branches of the horticultural trade; best of references from leading places of Europe and this country; married, no children. Address H C, care of Vogt, 30 City Market, St. Paul.

SITUATION WANTED—By an experienced florist, age 32 years, single. Scotch (American born); 12 years' experience in the growing of cut flowers, plants and vegetables, and the selling of the same; and also in making up designs, etc. Private or commercial. Best of references W A C,
care Hoopeston Floral Co., Hoopeston, Ill.

WANTED—One thousand rooted cuttings of Mme. Millet Violet. Must be healthy. Address
SCHROEDER BROS., Poughkeepsel, N. Y.

WANTED—Man to work in greenhouses. Address with references, and wages desired.
THE HUNTSMAN FLORAL CO., Cincinnati, O.

WANTED—To buy for cash, a small nursery or greenhouse business near Philadelphia. Address S J B, P. O. Box 937, Philadelphia, Pa.

WANTED—To lease or buy several greenhouses, some ground, with or without dwelling, near good market. W J, 95 Wakeman Ave, Newark, N. J.

WANTED—An experienced rose and carnation grower about June 1st. Wages $25 per month and board. Address
DUDLEY & CARNEY, Parkersburg, W. Va.

WANTED—A first-class man, experienced in vegetable and fruit growing. Private place. Must speak German. Good wages paid. Address, naming references in application,
Box 27, care American Florist, Chicago.

WANTED—A practical florist; must understand growing cut flowers, specially roses and carnations; also making up designs. Single man—German preferred. Wages $25 per month, with board. Address OTTO BAUMAN, Manistee, Mich.

WANTED—Immediately, a sober, reliable man to assist in greenhouse work, single preferred; must speak English, wages $20 per month with board, steady employment to right man with prospect of a rise. THOMAS GORDON, Mt. Clemens, Mich.

WANTED—A good rose grower who has had experience in growing other stuff; must be honest, sober and respectable; best of reference required. Address stating wages wanted,
I. W. & T. W. WOOD, Chase, Allegheny Co., Pa.

WANTED—For a large place in Chicago, 55,000 ft., where roses, cut flowers, palms, orchids, blooming and bedding plants are grown and everthing retailed. A No. 1 man, who if able and proves satisfactory, can be manager and get raised; married or single; $30 and board to start on. Must be able to manage the men, and come well recommended. Must love flowers more than beer. ALBERT FUCHS, Evanston Ave. and Sheridan Boulevard, Chicago.

WANTED—A thoroughly reliable man who understands growing of greenhouse stuff, flowers and vegetables; also growing of vegetables and small fruits outside, and landscape gardening. Must be a single man, strictly temperate in all his habits, and able to command the respect of a class of boys whom he would have under his charge to do the work required. A young man not more than 35 years old preferred. Salary $40.00 per month with board, room and washing.
J. W. BROWN, Supt., Red Wing, Minn.

FOR SALE—At a bargain, a florist's business in a thriving city near St Paul. Proof profits for 1891 over $1,300. For particulars address
SELLER, care American Florist.

FOR SALE—Small greenhouse attached to dwelling house. Everything in good condition, and room for extension if desired. Will sell entire property. Address MRS. Z. M. CHURCH,
219 Terrace St., Janesville, Wis.

FOR SALE—Right away, as good as new, a Kroeschell hot water boiler like cut in AM. FLORIST; 2 years old; 5x9 ft., 4 inch flues; cost $360, will sell for $250; also the 6,000 feet of 4, 5 and 6-inch pipe that was heated by same, at 8c. cash a foot; fittings half price—all from our place. ALBERT FUCHS,
Evanston Ave. and Sheridan Boul., Chicago.

BOILER FOR SALE.

In good condition, 4½ ft. long, 4 ft. wide, 17 3-in. flues. Will heat 1,500 feet of pipe.

WISCONSIN FLOWER EXCHANGE,
131 Mason Street, MILWAUKEE, Wis.

OUR CUT FLOWER BUSINESS

Demands all our growing capacity, we have therefore decided to close out our entire stock of plants this season. We start the ball rolling with the following. Speak quick if you want them.

We want to create a little diversion for Easter (April 17). To accomplish this we offer as follows in plants:

	Per 100
Genista pubescens, 5-inch in bloom	$ 25.00
Azaleas, 6-inch, in bloom	100.00
Fuchsias, 2 to 3 ft. high, 6-inch, in bloom	20.00
Hydrangeas, 6-inch, in bloom	20.00
Roses, Mme. Gabriel Luizet, 6-in. in bloom	25 00
" Gen. Jack, 6-inch, in bloom	25 00
" Mrs. Jno. Laing, 6 inch, in bloom	25.00
" Ulrich Brunner, 6-inch, in bloom	40.00
Lilium Harrisii, 4 to 10 blooms	50 00
Callas, 5 to 8-inch, in bloom	20 00
Cinerarias, 5-inch, in bloom	15.00
Carnations, 5-inch, various colors, in bloom	12.00

All the above in splendid condition for Easter sales.

In Cut Flowers we offer the following. Send in your orders and have them booked ahead.

Roses, American Beauty, A 1 stock.
" Bride.
" Mermet.
" Laing.
" Bennett.
" Brunner.
Callas.
Harrisii.
Carnations, white and red.
Marguerites, large blooming white, large elegant plants, 24 to 30 inches high, full of bud and bloom, just the thing for Easter work. Will pack light. $15.00 per 100.
Smilax, we have 1,500 strings to offer, medium length and stock A 1. If you are going to buy smilax in small or large quantities in the next thirty days don't fail to write to us, as we are in the market to sell.
☞ Bottom prices on any of the above.

ADIANTUM CAPILLUS VENERIS—The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.

Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it has many aliases. If you are short of room now we will book your order and ship any time up to May 15th. **Price, strong plants, $8.00 per 100.**

For bargains in Plants, see issue of March 24.

JOHN IRVINE CO.,
BAY CITY, MICH.

Dracæna indivisa, 12 to 15 inches,	$5 per 100	
Vinca major variegata	$4	"
ROOTED CUTTINGS.	**Per 100**	**Per 1000**
Ageratum Cope's Pet	$.50	$4.50
Alternanthera aurea nana	.50	4.00
" parch. major	.60	5.00
Heliotrope, mixed	.50	5.00
" Queen of the Violets	.75	6.00
Coleus, bedding vars	.75	6.00
Fuchsias, mixed	1.00	
Verbenas	.75	6.00
Carnations Hinze's White, strong	.60	5.00

JOHN J. CONNELLY, Bryn Mawr, Pa.

Canna Mme. Crozy.

The grandest novelty of the season. Unsurpassed as a decorative flowering plant for the flower garden or conservatory. Magnificent cut flower. Color dazzling vermilion bordered with gold. $8.00 per dozen; $50.00 per 100.

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50,000 IPOMEA PANDURATA.

(New Hardy Blooming Moon Flower.)

No 1 roots, large and strong, at $3.00 per 100 50 at 100 rate. $25.00 per 1000 500 at 1000 rate
GERANIUMS, named, 2½-in. pots$3.00 per 100.
" rooted cuttings.. 1.00 per 100.

JAMES FROST, Greenville, Darke Co., O.

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— AND —

REFERENCE BOOK FOR 1892

IS NOW READY.

It contains an accurate list of the Florists, Nurserymen and Seedsmen of America; the statistics of the Florist, Nursery and Seed Trades from the last U. S. census; a complete list of all National and local Trade Organizations, with just the information about each that you want convenient for reference; alphabetical lists of Roses, Chrysanthemums and Carnations, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

You can't afford to be without this book.

PRICE $2.00 PREPAID.

American Florist Co.,

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CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "DORINDA," a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

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WAYLAND, MASS.

AURORA.

Winner of the Ladenburg Cup for best pink

CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

Send for general price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

PURITAN.

NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:

Rooted Cuttings....$8 per 100; $70 per 1000
From 2¼-inch pots, $12 per 100; $100 per 1000.

Send for catalogue with full description of this and other varieties.

WOOD BROTHERS, Fishkill, N. Y.

50,000
ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.

Also an unlimited quantity of pips of the above varieties. Send for price list.

JOSEPH RENARD, Unionville, Chester Co., Pa.

50,000 ROOTED CUTTINGS
CARNATIONS

Standard Varieties and Novelties.
Send for Price List.

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P. O. Box 226. **KENNETT SQUARE, PA.**

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PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN**, besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

DO YOU GROW
CARNATIONS?

We have Ben Hur, Golden Triumph, Puritan, Aurora, Pearl, Grace Darling, Silver Spray, Tidal Wave, Mrs Fisher, Lizzie McGowan, Daybreak, Nancy Hanks and seventy other varieties. Send for trade list.

GEO. HANCOCK. Grand Haven, Mich.

CARNATIONS.

Send for trade list of ROOTED CUTTINGS.

J. J. STYER, CONCORDVILLE, PA

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Get my Last of the Season's Prices.

A GENERAL ASSORTMENT FOR APRIL DELIVERY.

CARNATIONS AND COLEUS.

LANCASTER BEAUTY Verbena, a fine novelty, $2.00 per 100. Also a limited stock of Mammoth and other best sorts mixed.

SMILAX all sold until May, prices 75 cts. per 100 or $6.00 per 1000.

PANSIES—Good little plants at 75 cts. per 100; $6.00 per 1000. In bud and bloom, $15.00 per 1000. Almost every florist knows how good the strain is.

FRENCH CANNA—A choice assortment, my selection, $5.00 per hundred. Emile Leclaire, $3.50 per hundred.

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CARNATIONS.
Finest NOVELTIES of the year, and best Commercial varieties.

COLEUS. Best assortment in the country. All the good Bedders.

GERANIUMS are all sold for this month. Will have some later.

New Fancy Coleus **"JOHN RALPH"** is a gem. Pot plants, six for $1.00.

GET MY LIST BEFORE YOU PURCHASE.

ALEX. McBRIDE, Alplaus, N. Y.

ROOTED CUTTINGS ONLY.

ROOTED CARNATION CUTTINGS.

NOW READY. UNSURPASSED IN QUALITY.

Golden Gate, grandest new pure yellow; J. R. Freeman, fragrant crimson scarlet; Constancy, glowing bright scarlet; $3 00 per 100; $25.00 per 1000. We have a fine stock of these.

Wm. F Dreer, magnificent fringed rose pink; Nellie Lewis, light pink streaked with darker hue; $3 00 per 100; $25 00 per 1000.

IMPROVED Grace Wilder, the standard pink shade; $2.00 per 100; $15.00 per 1000.

Price of all other standard varieties on application. For well established plants from small pots see illustrated catalogue, mailed free.

Best home grown Double Excelsior Pearl Tuberose bulbs, $8.00 per 1000 by express.

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Wholesale Florists,

RICHMOND, INDIANA.

Why Do You Buy
ROOTED CUTTINGS
When You Can Buy
FINE PLANTS AS CHEAP.

McGowan, Christmas, Golden Gate, Hector, $3.50 a 100; $32.00 a 1000.
Fisher, $3.00 a 100; $25.00 a 1000.
In 2-inch pots two months, ready for immediate shipment. Guaranteed first-class.

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SEND FOR CIRCULAR.

30,000 ROOTED CUTTINGS.

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NOW READY.

Send for Price List.

I. LARKIN,
TOUGHKENAMON, CHESTER CO., PA.

FIRE YOUR ORDERS IN FOR AURORA

And other stock. I have the cleanest, healthiest cuttings I have ever had, mostly plants established in soil, at the same price as rooted cuttings in sand.

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GEO. W. MILLER,
WHOLESALE * FLORIST,

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ROSES AND PALMS A SPECIALTY.

To the readers of the AMERICAN FLORIST:

By acknowledging that you saw this in the AMERICAN FLORIST I will for the next two weeks from the date of this paper, send you for $5.00, 1000 Rooted Coleus Cuttings of at least 25 kinds; the selection of sorts to remain with us. No cull stock. Cash with order.

J. E. FELTHOUSE, Florist, Schenectady, N. Y.

CARNATION MRS. L. FAWCETT.

A large lot of Rooted Cuttings of this magnificent new pink variety now ready, $6.00 per 100, $50.00 per 1,000.

L. FAWCETT, Carnationist, SALEM, OHIO.

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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

OUR DIRECTORY.

Our Directory for 1892 is now ready for distribution. The book appears much later than the date originally promised, but the delay has been caused only by our earnest endeavors to get the work as nearly correct and complete as possible.

Some new features of the present publication have taken us over hitherto untrodden ground entailing a vast amount of labor. Then, the business changes constantly going on, our rapid horticultural growth and the difficulty of obtaining exact information from every little community renders it next to impossible that such a work should be entirely free from errors. But no available source of information has been neglected and no expense spared to make this edition an invaluable reference book for every one in any way connected with the trades represented, and we now offer it to our patrons with feelings of pride convinced that this volume is the best of its kind ever published.

To our numerous friends and correspondents throughout the country who have so cordially assisted us in our work of revising and compiling we desire to express our sincerest thanks. Many of the florists, seedsmen, cemetery and park superintendents and others have given us much generous and indispensable help, and in every direction we have received ever ready and cheerful courtesy. To this kindly co-operation we feel that the standard of excellence which has been reached in the present volume is largely due, and we take this means of acknowledging gratefully our indebtedness to all those who have so unselfishly aided us in the work.

Toronto Notes.

At Toronto there are many gardens of unusual interest to the lover of horticulture and there are many examples of old fashioned gardening in its truest sense not to be met with on the other side of the line, an inheritance as it were of the European school, more especially British; this applies to indoor gardening more properly speaking and to the whole Dominion.

With such men as George Vair, John Chambers, William Huston, George Reeves, Arthur Ewing, Joe Spring and many others taking the lead in private horticulture we may rest assured that great advances as in the past will be made in this particular branch in this city, the "Chicago of Canada."

John Chambers, the jovial superintendent of parks, has done much to improve the city with its lines of trees and many beautiful parks, and the city well appreciates his efforts in this direction. The city greenhouses, situated in the beautiful exhibition park, contain besides their immense stock of bedding plants quite a number of tid-bits in the way of new and rare plants, and as "John" takes a special interest in their well-being it is not to be wondered at that they are well worthy of a visit.

The stove house contains many well flowered orchids, the principal of which noted during a recent visit were, Calanthe vestita with spikes averaging 18 to 20 flowers; Phalænopsis amabilis, very useful for florists; many cypripediums, including such useful varieties as C. Spicerianum, C. Harrisianum, C. insigne, etc.; well flowered pieces of Cymbidium Lowianum, Angræcum sesquipedale, Vanda Amesiana and some rattling good pieces of Dendrobium Wardianum and others. Cattleya Trianæ was also well represented. The "Flamingo" plant (anthurium) with its bright red spathes is used both for cutting and for brightening the houses in winter when color is scarce. A. Andreanum, A. Ferrierense, A. Scherzerianum and the newer varieties, A. Clarkiana and A. Reynoldiana, not forgetting the gem, A. Rothschildianum, are among the best and are well grown here.

Of palms that look well in their young state and are useful for growing on in the stove, Livistona rotundifolia, Phœnicophorium sechellarum, Verschaffeltia splendida and Cocos Weddeliana rank high. Maranta Veitchii and M. Mackoyana are also excellent. MORE ANON.

WE HAVE received from Mr. John H. Dunlop, Toronto, Ont., some very handsome blooms of the roses Toronto, Viscountess Folkestone and Miss Ethel Brownlow. The Toronto is a sport from the Perle des Jardins that originated with Mr. Dunlop. The blooms sent were beauties, of very large size, rich golden yellow in color and borne on strong stems dressed with handsome foliage. The other roses were also good, but a first class yellow rose, better than the Perle, is something we need more than additional pink toned sorts. Toronto promises well. May it prove to be the new yellow forcing rose we have been looking for.

News Notes.

INDIANAPOLIS.—G. C. Lange has succeeded Mr. Lorenz Schwartling as florist at the Central Insane Hospital.

LAWRENCE, MASS. — Moses Wingate, senior member of the firm of M. Wingate & Son, died on March 18, at the age of 69.

COSHOCTON, O.—M. J. Schott has started in business here with a greenhouse 21x62, erected in good style with all modern improvements. Coshocton is a growing town of 5,000 inhabitants and this is the first florist establishment started here.

MILWAUKEE.—One of our florists did quite a lively trade in Shamrock March 17. He had it in 2½-inch pots, which sold at 10 cents each like hot cakes. The floral "Harp of Erin" in his window pleased many from the green isle who had probably never stopped to look at flowers before. A large green bow caught their eyes at once.

NEW HAVEN, CONN.—The indications at present are that there will be no chrysanthemum show here this year. These exhibitions have been held in the name of the Ladies' Chrysanthemum Club, with the co-operation of the florists. Of the proceeds a certain amount has been applied to premiums and the balance devoted to charitable purposes. The amount paid for charity last year was $525. In January of this year at a meeting of growers held for the purpose a schedule of prizes was adopted that would have given New Haven the best show in her history, but which on presentation for acceptance by the Chrysanthemum Club was so amended by that organization in regard to concessions demanded from exhibitors as to be unacceptable to the growers. After several conferences and considerable correspondence negotiations were finally dropped, it being evident that the leaders of the club are not disposed to grant the growers a fair recognition of the trouble and expense necessary to prepare a good show. If the New Haven growers are wise they will in the future steer clear of all connection with public charitable organizations.

Robert B. Young & Co.

AUCTIONEERS OF

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SHRUBS, ORCHIDS, ETC.

205 Greenwich St., NEW YORK.

During present month our regular sales of Hardy Roses and Ornamental Plants will be held *Thursday of each week*, and will be followed by sales of plants for bedding and general decorative purposes.

Special days have been set apart for the sale of Orchids.

CATALOGUES ON APPLICATION.

LILIES FOR EASTER.

HARRISII, LONGIFLORUM, CANDIDUM, HYDRANGEAS, LATANIA BORBONICA, DRACAENA INDIVISA, GERANIUMS, ETC.

Send for Prices.

WILLIAM A. BOCK,

NORTH CAMBRIDGE, MASS.

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Grapes, Small Fruits in Variety, Asparagus, Etc.

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BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
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THE
INVISIBLE BOUQUET PIN
75 CENTS PER GROSS.
INDISPENSABLE TO THE RETAIL FLORIST.
Send for my Primer, free.
GEO. B. WILLCOX, Bay City, Mich.

Wholesale Markets.

Cut Flowers.

BOSTON, March 29.

Roses, Bon Silene, Gontier, Niphetos	2 00@ 4.00
" Perle, Sunset	3 00@ 4.00
" Mermets, Brides, Waban	6 00@ 8 00
" Jacq	10 00@20.00
Carnations	1.50@ 2 50
Mignonette	2 00
Harrisii, Callas	6.00@ 8.00
Candidums	6.00
Valley	2 00@ 3 00
Tulips, Daffodils	4 00
Violets	.50@ .75
Pansies	.25
Marguerites, Myosotis	1.00
Smilax	25 00
Adiantum	1.00@ 1.50
Heath, per bunch	.50
Primroses, per bunch	08@ .15

NEW YORK, March 29.

Roses, Bon Silene	2 00
" Gontier, Perle	2 00@ 4.00
" Niphetos	1.50@ 4.00
" Mermet, Bride, Cusin	3.00@ 6 00
" Watteville	3 00@ 8.00
" Hoste	3 00@ 5.00
" Bennett	2 00
" La France, Albany	6 00@ 8.00
" Beauties	10.00@50 00
" Jacqs	5.00@15 00
" Hyprid ordinary	15.00@40.00
" Brunner	60 00
Carnations	1.00@ 2 00
Valley, Romans	2.00@ 3 00
Narcissus	3 00@ 4.00
Tulips	2.00@ 5.00
Mignonette	2 00@ 4.00
Violets	.50
Harrisii, longiflorum	4.00@ 6 00
Smilax	25 00
Asparagus	75.00
Lilac, per bunch	.75@ 1 00

PHILADELPHIA, March 29

Roses, Brunners	50 00
" Baroness	50 00
" Laings, Magnas	31 00
" Beauties	30 00@35 00
" La France, Albany	6 00@ 8.00
" Mermets, Brides	6 00@ 8 00
" Jacqs	15 00
" Cusins, Watteville	5 00@ 6 00
" Perles, Niphetos, Gontiers	4 00
Valley	3 00@ 4.00
Carnations	1.50@ 2 25
Violets	.35@ .50
Daffodils	3.50@ 4 00
Mignonette	1 00@ 3 00
Tulips	4 00@ 5 00
Harrisii	6.00@10 00
Romans	1 50@ 3 00
Smilax	25 00
Adiantums	1.00@ 1 50

CHICAGO, March 29.

Roses, Perle, Niphetos, Gontiers	3.00@ 5 00
" Bon Silenes	2 00@ 3 00
" Mermets, La France	4 00@ 6 00
" Bennetts, Dukes, Woottons	4.00@ 6 00
" Albany, Bride	5 00@ 6 00
" Am. Beauties	10.00@25 00
" Jacq	10.00@18 00
Carnations, long	1.25@ 3 00
" short	.75@ 1 00
Romans, Valley, Daffodils, Narcissus	3 00@ 4 00
Tulips	3 00@ 5.00
Callas, Harrisii	8.00@12 50
Candidum	4.00@ 6.00
Violets	.75@ 1 50
Smilax	16.00@25 00
Adiantum	1 00@ 1 25

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Successors to WM. J. STEWART,
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We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
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A complete line of Wire Designs.

CYCAS LEAVES,
Fresh, $1.00 each.
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ENGLISH IVY.
In 2½-inch pots, cheap.
Send for price list of Bedding plants, etc.
JOS. H. CUNNINGHAM,
Delaware, Ohio.

YOUNG BROS.,
20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

F. S. WHITE, the Des Moines seedsman, has been robbed by parties who secured duplicate key to his P. O. box. The thief has been caught and will be prosecuted.

SAN FRANCISCO.—Emory E. Smith has been appointed professor of horticulture at the Leland Stanford University.

OVERVEEN, HOLLAND.—William Byvoet of Byvoet Bros., died March 7, aged 62 years.

The World's Fair.

The actual work of the horticultural department at the World's Fair grounds has been a good deal retarded by the late cold weather, but Mr. Thorpe is now getting his forces to work at Jackson Park.

Those who have not been on the ground can hardly appreciate the amount of work to be accomplished before the opening of the Fair. The ground has had to be reclaimed from a mixture of swamp and sand hill by dredging out the "lagoons," and buildings sufficient in themselves to form a large city, built, before the ornamental features of the landscape could be attended to. The space devoted to the outside display will consist of the island known as the "Wooded Island," and a strip in front of the Hort. Hall, and between the Hall and Stony Island avenue, where the greenhouses are situated. Eight greenhouses are now nearly completed.

Shipments of roses are arriving from Europe, and many others are on the way. One interesting consignment of 1,550 plants is coming from Alex. Dickson & Sons, Newtownards, Ireland.

Several consignments of pansy seeds have already arrived in response to the circular sent out on the 21st inst.

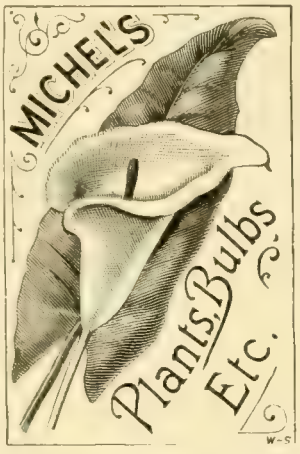
Chief Thorpe has been laying out plans for the roof garden of the Woman's Building, and supplied Mrs. Palmer with a list of plants that should be obtained. The space laid out for this purpose consists of two courts about 75 feet square, at each end of the building, connected by a passage overlooking the Fair grounds at the south end, and presenting a good view of the grounds allotted to the different states.

Chief Samuels returned from Kentucky on Saturday. He addressed the Legislature on the necessity of the State making an appropriation for the Fair, and reports there is every likelihood of $75,000 being set aside for that purpose.

Under date of March 21 the horticultural department issued a circular inviting contributions of pansy seed of best varieties, in quantities sufficient to insure at least 250 plants of each at the time final planting is made. Two sowings of each kind will be made, one in July and one in August. The pansies promise to be a very important feature in the early months of the exposition and will show visitors in a very convincing way the immense strides made in the cultivation of this popular flower during the past few years.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

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F. R. Pierson.....Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

Send for Catalogue of
JAPAN BULBS, SEEDS, AND SHRUBS.
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ABSOLUTELY WITHOUT RESERVE.
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Whole of this Celebrated Collection of Orchids,
Formed by the late EDWIN GRUNDY WRIGLEY, Esq., the whole being in splendid condition, and including many plants of exceptional merit and rarity.
MESSRS. PROTHEROE & MORRIS are favored with instructions from the Executors of the late E. G. Wrigley, Esq., to sell by Auction, on the premises, Howick House, Preston, Lancashire (about 2 miles from Preston Station), on TUESDAY, APRIL 5, 1892 and three following days, without the slightest reserve, the whole of this extensive and most important collection of established Orchids.
The whole of the plants will be submitted to public competition, and nothing sold privately before the sale.
Catalogues are now in course of preparation, and may be obtained of MR. HOUGH, The Gardens, Howick House, Preston; and of the Auctioneers, Estate Agents, and Valuers, 67 and 68 Cheapside, London, E. C.
N. B.—The Auctioneers fear the catalogues may not reach their clients in America in sufficient time to enable them to instruct their Agents to purchase any of the plants. They have therefore forwarded a preliminary Circular to these clients containing a list of some of the most attractive plants and will be pleased to send a copy of this Circular to any gentleman on receiving his application.

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The Finest Stock in the World.
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NEW GIANT WHITE PLUME $2 50 per 1000. 5000 for $10 00.
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Plants are from 4 to 6 inches long. Packed securely.
The above varieties are the largest and best known for the trade. All orders to be accompanied by cash.
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Selected, 1000 for $7 00; 500 for $4.50; 250 for $3.25.
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We want it generally known that we have not been forced to this expedient as yet and can furnish in **LARGE** or **SMALL QUANTITIES**. nearly all varieties of **VEGETABLE SEEDS, FLOWER SEEDS,** and **SPRING BULBS,** at prices which we commenced selling at the beginning of the season, and in many cases where large quantities are wanted we can furnish **CLOSER FIGURES.**

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	Guaranteed full measurement.				
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LILIUM LONGIFLORUM,	Bermuda grown, at same rates.				
" CANDIDUM,	fl. simples, st. ong.	3 50	25 00		
ROMAN HYACINTHS,	white, 4 inches circum	2 00	13.00	12.00	11.00
" "	white, 4½ to 5½	3 00	20 00	19 00	18 00
" "	white, 5 to 6	3 50	25 00	24 00	23.00
DOUBLE ROSY,	rosy, tendre, selected	2 50	16 00	15 00	
ITALIAN,	blush white, selected	2 75	19 00	18 00	
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TOTUS ALBUS	(Paper White) Narcissus, selected	1.25	7 00	6 50	
" "	gr. fl. Narcissus, selected	2 00	12 00	11 00	
DOUBLE ROMAN NARCISSUS,	selected	1.50	10.00		
FREESIA REFRACTA ALBA,	selected	1 25	8.00	7.50	
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Half quantities at same rates.

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Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

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A General Invitation.

We have received a note from Mr. John Westcott, chairman of the banquet committee of the Florists' Club of Philadelphia, asking us to extend through the FLORIST to the members of the various florists' clubs throughout the country and to the members of the S. A. F. a hearty invitation to be present at the Philadelphia club's banquet, which takes place Wednesday evening, March 30, at Horticultural Hall, in the city of brotherly love. Though the affair will have passed by the time this issue reaches our readers we know they will appreciate the hospitable invitation.

Angle Worms in Rose Beds.

Will some reader of the FLORIST inform me as to the best way to get rid of angle worms in rose beds? The soil in my rose beds has been infested with these all winter. Are they injurious to the roses?

Atchison, Kan. THOS. C. GARNER.

CINCINNATI.—S. S. Jackson died recently, aged 89 years. He was probably the oldest nurseryman in America. He was in business near this city for over 50 years and was a charter member of the old Cincinnati Horticultural Society, now practically out of existence.

THE LATE Geo. W. Wilson, of Malden, Mass., was an eccentric character. It has been said of him that he "could get more information out of others without answering a question himself than any other man in the United States."

THE FOURTH annual exhibition of spring flowers of the Montreal Gardeners' and Florists' Club will be held April 13 and 14.

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SPECIAL FOR THIS WEEK.

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Heliotrope and Blue Ageratum, in 3½ and 4-in. pots.
Variegated Periwinkle, in 3, 3½ and 4-inch pots.
Madagasca Vincas, in 3 and 4-inch pots.
Also La France Roses ready for summer forcing.
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Our own grown Superior Strains.
TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

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Mermets, Brides, Papa Gontier and Hoste, strong plants from 2-inch pots, $4.00 per hundred.

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Mixed, fine quality	$4 00	$35 00
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Smaller tubers 20 to 30 per cent less.
Double mixed, fine large flowers...$10 to $20 per 100
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Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other

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If you have been missed, drop us a line.

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—ALL KINDS OF—

CUT FLOWERS IN SEASON,

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And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist.
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ROSES.

The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in. pots, per 100, Wabun, $6 00; Duchess of Albany, and Meteor, $5.00 per 100; La France, Bride, Sunset, $5.00 per 100; Perle, Mermet, $4 56; Bennett, $8 00 per 100.
Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

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50,000 ROSES, from 2-in. pots, $3 per 100; $30 per 1000.

Plant in 3 inch pots, and they will bring you from 10c to 15c each readily.

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Plant in 4-inch pots and they sell readily from 20c to 25c each.

N. B.—Our stock is not forced nor are the plants long and drawn, but have an abundance of leaves and roots.

Varieties you can select from by the 100 or 1000, provided one or the other sorts is not sold:

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Catherine Mermet,
Coquette de Lyon,
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20,000 4-INCH POT ROSES, $10 to $20 per 100 according to variety and quality.

POT ROSES, in bud and bloom, $20 to $25 per 100.

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From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and Duchess of Albany, at $5.00 per 100; Meteor, at $6.00 per 100; American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

CHRYSANTHEMUMS,
leading varieties, 2½-inch pots, $5 per 100.

We are headquarters for the Meteor and Climbing Perle des Jardins.

ALL FINE HEALTHY STOCK.

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Flushing, N. Y.

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The best and newest of **CHRYSANTHEMUMS, CARNATIONS** and general greenhouse stock.

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ROSA CANINA STOCKS

SCHULTHEIS BROS.,

STEINFURTH, NAUHEIM, HESSE GER.

1000 extra choice, 3os, 1 year seedlings.
10,000 plants, extra choice. 25os, 1 year seedlings.
1000 plants, 1st choice, straw thick, 12s, 1 yr. seedlings.
10,000 plants, 1st choice, straw thick, 115s, 1 yr. "
Cash with order. Send via Bremen Loyds.

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JOS. E. BONSALL & SON, Salem, O.

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STRONG, 2½-INCH POT PLANTS.

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Niphetos	4.00	Clotilde Soupert	4.00
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And other leading sorts, $4.00 per 100; $30.00 per 1000.

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" Stellata Fimbriata Alba	4.00
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French Cannas in 12 fine varieties	12.00
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Begonia Countess Louise Erdody	10.00
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My old time Specialty, the Rose MME. CUSIN, per 100 plants, $5.50.

Also **THE BRIDE**.....per 100 $5.50 | **THE WABAN**.....per 100 $ 8.00
MME. WATTEVILLE, " 5.50 | **AMERICAN BEAUTY**..... " 10.00

Also **BRIDESMAID,** SUPPLY LIMITED.

From 2-inch pots:
12 plants.....$ 9.00
50 plants..... 25.00
100 plants..... 40.00

"This is the most beautiful pink rose known."
John N. May.
M. A. Hunt.

From 3½-inch pots.
1 plant.....$ 1.50
12 plants..... 15.00
25 plants..... 25 00

SUNNYWOODS GREENHOUSES. **FRANK L. MOORE, Chatham, New Jersey.**

ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

FRANCES B. HAYES, HYBRID BOURBON. **AND OAKMONT,** HYBRID REMONTANT.

Extra fine Selected Stock for the Trade.

JOHN N. MAY, Summit, N. J.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., **NATICK, MASS.**

"Awful Prices Paid for Flowers."

A southern florist sends us an order recently received by him and we give it below. Our title, which we have placed in quotation marks, is copied from one of the daily papers. Here is the order.

"Please send me two corsage bouquets; as pretty as you can for ten cents each. I send the money."

The only pleasant feature about the order seems to be the fact that it was accompanied by the cash. Our correspondent does not state whether the amount was in currency or in the form of a bank draft. He writes: "These bouquets were to adorn lovely woman who was paying $4 a ticket to hear the immortal Sarah Bernhardt. Were I to steep my being in ink until thoroughly saturated, then slowly exude it, perspire it at every pore upon the pages of the FLORIST page and ink would fail before my feelings were fully justified. Have pity upon my soul, ye affluent florists of the north. A corsage bouquet for ten cents!"

Keep the Weeds in Beds.

A gentleman in England had an untidy gardener. Walking round the garden with him one day he said: "Gardener, what do you call this plant?" "Groundsel, sir." "Groundsel is it; well, I wish you would keep it in a bed by itself and not let it grow all over the place so."

G. M.

CYCAS REVOLUTA.

Second and last Importation of the Season of 50,000 lbs Cycas revoluta, the only true long-leaved variety. Offered at these low prices for the next

60 Days.

FIRST-CLASS STOCK.

CHOICE SELECTED Stems, from 6 inches to 3½ ft., per 100 lbs. $10, f. o. b.

SPECIAL INDUCEMENTS ON LARGE LOTS.

SECOND-CLASS STOCK.

CHOICE but not selected stems, from 6 inches to 3½ ft., per 100 lbs. $6.50 f. o. b.

Special inducements on larger lots.

PRICES REDUCED FOR THE NEXT 60 DAYS ON ALL STOCK.

We also received choice Rhapis flabelliformis, Viburnum plicatum (Japan Snowball), Magnolias, Sciadopitys verticillata; fine Retinosporas, Maples, Tree Paeonias, Herbaceous Paeonias, Camellias, Lilium Auratum, Rubrum, Album, Longiflorum, etc., etc.

Send for Catalogue.

FELIX GONZALEZ & CO.,

303 to 312 Wayne St., SAN FRANCISCO, CAL.

DO YOU KNOW THE SNOWFLAKE DAISY makes one of the most attractive and salable potplants, and that we offer a fine stock of strong plants all in bud, ready to come right on for Easter, at $3 00 per 100.

3,000 Variegated Vincas, very strong, 3 inch. $3 50 per 100.

3,000 Golden Marguerite, Dwarf, large flowering, flats, $2 50; rooted cuttings, $1.50 per 100. 1000 Choice Mixed Geraniums, rooted, $1.50 per 100 post free.

10 000 Rooted Cuttings of Coleus, Heliotrope, Gem Feverfew, Fuchsias, (Hill, Phenomenal, and other fine sorts mixed.) Musk, Lobelia, Othonna and other vase plants, $1.00 per 100, post free.

1,000 Phlox, choicest strains, all colors mixed, Nana compacta and Star of Quedlinburg, flats, $2 00 per 100. Fresh Smilax Seed ½ oz. 20 cts 1 oz 35 cts. Finest mixed double fringed Dianthus, liberal trade packet, 25 cents. Kulalia Zebrina, and Japonica, large field grown, will divide, 1st size, $12.00; 2nd size, $8.00 per 100 Bouvardias, Chrysanthemums, Violets, later 5,000 Grape Vines, standard sorts, very cheap. Satisfaction guaranteed or money refunded.

Very respectfully,

J. C. GIBSON, WOODBURY, N. J.

Always mention the AMERICAN FLORIST when writing to advertisers.

Sherwood Hall Nurseries.

TIMOTHY HOPKINS,

MENLO PARK, San Mateo Co., CALIFORNIA.

STANDARD VARIETIES OF

CHRYSANTHEMUMS, ROSES, CARNATIONS, VIOLETS

By the 1,000 or 10,000.

WESTERN AND PACIFIC COAST TRADE PARTICULARLY SOLICITED.

Native Trees, Shrubs, Palms, Ferns, Etc.
Cut Flowers shipped to distant points.

SWEET PEA SEED by Pound or Ton. Contracts for Future Delivery.

CATALOGUE FREE. WHOLESALE PRICES ON DEMAND.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

—NO RUST OR MILDEW.—

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.

Verbenas

FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30.00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	3.00	25.00
" " Rooted Cuttings	1.00	8.00
Lemon Verbenas, 1 year old, strong	6.00	

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1.00	8 00
Feverfew (Little Gem), extra strong	2.00	15.00
Salvia splendens, extra strong	1.50	12.00
Moon Vine	2.00	
Ageratum, blue and white	1.25	10.00
Achyranthes Emersonii, etc	1 00	
Heliotrope, light and dark—no rust	1.50	12.00
Begonias, assorted, fine	2 00	
Gazenias, splendens and variegata	2.00	

WOOD BROTHERS,
FISHKILL, N. Y

Mention American Florist.

THE NEW VIOLET

R. GARRETT,

Is a sport from Count Brazza, of a light blue color, very large and very double; a strong, healthy grower.

PLANTS READY APRIL 1st.

Parties in and west of Chicago will please leave their orders with **J. C. VAUGHAN,** box 688, **Chicago.**

Price, $12.00 per 100; $100 per 1000; $1.00 per dozen.

All orders must be accompanied by cash.

J. COOK,

318 N. Charles Street, BALTIMORE. MD.

CLEMATIS.

Strong heavy plants	doz.	$4.00
Lighter, equal to imported	"	3.00

ROSES—H. P. 2 year, own roots, choice kinds per 100 $10.00

DAHLIAS—50 vars., whole roots, proved sorts per 100 $8.00

F. A. BALLER, Bloomington, Ill.

COLEUS

Are all ordered to April 1. **Cause:** A 1 Cuttings and advertising. Will take orders to fill after above date.

Mums and Fuchsias.

I have a nice batch in benches, rooted and ready to ship.

SEND FOR PRICE LIST.

S. B. FIELD, Roselle, N. J.

ROOTED CUTTINGS.

—o—

ALTERNANTHERA P. Major and Aurea Nana, 50 cts. per 100.

AGERATUM White Cap and Cope's Pet, 50 cts. per 100, by mail prepaid.

OTHER STOCK LATER.

Don't order more PETUNIAS and VERBENAS until quoted here.

S. O. STREBY,

Lock Box 77. ***UPPER SANDUSKY, OHIO.***

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PANSIES AND OTHER STOCK

For Fall Planting.

	Per 100	Per 1000
SMILAX, 2½ inch pots	$1.50	$12.00
Rooted Cuttings CHRYSANTHS, ready March 1st	2.00	15.00
AMPELOPSIS VEITCHII, 3-in. pots, strong, at	5.00	

Address **J. G. Burrow,**
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THE BEAUTIFUL NEW VIOLET

MAY * HANDY

WILL BE FOR SALE APRIL 1ST, 1893.

A STRONG GROWER.

AN EXCEEDINGLY FREE BLOOMER.

LONG STEMS, AND

EXTRA LARGE FLOWERS.

We will build a 20 x 200 house for this Violet, and next Winter will send free of charge sample blooms to all who wish to see it.

W. A. HAMMOND, RICHMOND, VA.

For Spring Potting.

The best time to pot off small Palms and Foliage Plants is NOW, and they will then be ready to fill houses with for summer, after bedding plants are cleared. Cheap plants as follows:

	Per 100
Aralia Sieboldi, 2-inch pots	$10.00
Pandanus utilis, 2-inch pots	10.00
Areca lutescens, 2-inch pots	10.00
Dracæna terminalis, 2-inch pots	8.00
Latania borbonica, seed boxes	4.00
Cocos Weddelliana, seed boxes	8.00
Cocos plumosa, seed boxes	8.00
Asparagus plumosus, 3½-inch pots	40.00
Begonias, tuberous, single, finest flowers, distinct colors	10.00
Begonias, tuberous, double, very fine.	20.00

(Begonias are started, but can be mailed for next three weeks)

JOHN H. LEY,
Tropical Nursery, Anacostia. **WASHINGTON, D. C.**
Mention American Florist.

PÆONIES.

Our collection of Pæonies comprises all the finest in cultivation. It embraces the finest and latest novelties from France and Belgium, together with the well-known standard varieties. **Catalogues on application.**

JOHN SAUL, Washington, D. C.

SEED POTATOES SEED

I have a large stock of all the leading **NEW** and **STANDARD** varieties.

Prices on application. In submitting list, always state quantity of each variety wanted. Catalogue on application.

E. H. VICK, 631 Park Ave., ROCHESTER, N. Y.

HYDRANGEA PANICULATA GRANDIFLORA

Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine	$5.00	per 100;	$40.00 per 1000
TWO YEARS, 18x24 inches, fine	6.00	"	50.00 "
TWO YEARS, extra selected, 2½x3 feet, strong	7.00	"	60.00 "
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00	"	70.00 "

Packed in best manner and delivered to Express or R. R. free of charge on receipt of proper remittance.

ADDRESS **THE DINGEE & CONARD CO.**
West Grove, Pa.

ROSES.

Strong, healthy plants of La France, Mermet, Bride and Watteville, 4-inch pots, $6.00 per 100; $40.00 per 1000. 2½-inch pots, $3.50 per 100; $30.00 per 1000.

CARNATIONS.

Hinze's White, Portia and Grace Wilder, from 2½-inch pots, $3.00 per 100. From flats $2.00 per 100.

Heliotrope, $1.00 per 100; from 2½-inch pots, $3.00.
Coleus, from 2½ inch pots, selected, clean plants, $2.50, rooted cuttings 85c. per 100.
Alternantheras, from 2½-inch pots, $2.50 per 100.
Ageratum, white and blue, Gnaphalium lanatum, Sweet Alyssum, } 75 cts. per 100; from 2½ inch pots, $1.50.

Orders booked and shipped in the order they are received.

JAGD & CO.,
Springfield, Mass.

DOUBLE SWEET ALYSSUM.

Rooted Cuttings, 75 cents per 100; Potted plants, $1.50 per 100. Manettia, potted plants, $3.00 per 100. Double Hollyhock plants, $3.00 per 100.

J. W. DAYHOFF, Hagerstown, Md.

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LITTLE'S ANTIPEST.

— A —
Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED
— BY THE —
CALIFORNIA STATE FAIR OF 1890.

This preparation Is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

The Nursery Trade.

Rochester, N. Y.

The Caminetti bill is killed, we are inclined to believe, but it may come up again in a new form.

The nursery trade opens well, as a rule, yet some complaints are made that agents' sales are not as large as usual. It is worthy of note that the agents of some firms are doing the usual business, showing that much depends on the man at the helm.

Our firm does not run agents, but sells direct to fruit growers. Our trade has never been so large as this season. But the fact remains that agents will always sell the bulk of all nursery stock, as most people are not sufficiently interested to buy trees unless forced into it. The honest agent does good missionary work and should be encouraged. The difficulty is to learn who the honest agents are. But there are many such.

Nursery stock has wintered well. There is a good stock of most items. Dwarf pears and apple trees are perhaps more scarce than anything else.

Rabbits are doing more and more injury to nurseries and orchards each year. When I was a boy I had not seen a wild rabbit and yet I was a hunter. Now they are started from every fence corner. Query—will the rabbit become a great nuisance here, something as they are in Australia? CHAS. A. GREEN.

Sweet cherries, peaches and Bartlett pears show signs of being hurt by the winter.

In the ornamental departments the increasing demand for native trees and shrubs has been the most noticeable feature of the trade for the past two or three years and this spring the demand seems to be larger than ever.

There is more frost in the ground here now than there has been at any time this winter, and nurserymen with orders from the trade in the south and southwest are beginning to get a little anxious about digging their trees. The indications now all point to a late start. L.

Waban, Mass.

The indications of a lively spring trade are more than usually promising. In the vicinity of Boston the demand for choice ornamental trees and shrubs is increasing, while the inquiry for fruits is rather diminishing. The fine colors of the Schweidler and the Japan maples are becoming more known and the demand for these is brisk. There is a manifest call for variety in form and coloring which is much to be desired. We want relief from the regular, monotonous rows of sugar maples. The demand for Clematis paniculata is likely to exceed the supply of this robust and excellent climber. Several new varieties of Japan lilies, the new Dawson and Wichuraiana roses, the weeping lilac and the Japan giant lilac attract attention this season. The demand for rhododendrons is increasing. Cultivators are becoming educated to understand the superiority of budded or grafted roses over those on their own roots. We may hope in the near future for a stock for budding which will prove superior to the Manetti or the Dog rose. It is also to be hoped that duty may be enforced upon imported roses and that our markets may be amply supplied with a home product. S.

EVERYTHING —IN— FINE TREES, Shrubs and PLANTS CHEAP

2000 American Arbor-Vitæ, 2 ft. fine bushy, 3 times transplanted and sheared, at $1.50 per doz.; $10 per 100.

1000 American Arbor-Vitæ, 2½ to 3 feet, bushy, 3 times transplanted and sheared at $2 per doz.; $12 per 100.

5000 Norway Spruce, 1 to 1½ ft., transplanted, $1 per doz.; $5 per 100.

10,000 Currants, Versailles, Cherry, White Grape, White Dutch, Red Dutch and Black Naples, at $2.50 100; $20 per 1000.

Snyder, Wilson and Kitatinny Blackberry at $1.50 per 100; $12 per 1000.

1000 Mahonia Aquifolia, fine plants of this Evergreen shrub, $1.25 doz.; $10 a 100.

1000 Syringa, fine named varieties lilac, 2 years, $1.50 per doz.; $9 per 100.

Syringa, fine white, 3 yrs., at $1.50 per doz.

Syringa, fine, the old purple lilac, 2 years, at $5 per 100.

100 Latania borbonica, 6-inch pots, 6 to 8 leaves, 18 in. high, fine plants, $7 a doz.

100 Latania borbonica, 5 and 6-in. pots, $4 and $6 per doz.

50,000 Young Roses, leading sorts, Perles, Brides, Mermets, Papa gontiers, etc., 2½-in. pots, $4 to $5 per 100.

5000 Teas and Hybrid Tea Roses, 5 and 6-in. pots, $18 to $25 per 100.

10,000 Tuberous Begonias, fine large varieties, $10 to $15 per 100.

☞ Many other things too numerous to mention here.

Send for trade price list or send us a list of what you need and we will give lowest rates

B. A. ELLIOTT CO., 54 Sixth St., Pittsburgh, Pa.

BARGAINS IN VINES, HYDRANGEAS AND ROSES.

VINES.

	Per 100
Ampelopsis Veitchii, 1 year, 4-in. pots, 3 to 4 ft staked	$ 7.00
" " 2 yrs., 5-in. pots, 4 to 5 ft., staked, extra fine	10.00
" quinquefolia (Am. Ivy), 3 to 5 ft	6 00
" " " heavy	9 00
Clematis flamula, 2 yrs	5 00
Honeysuckle, Hall's Japan, 2 yrs.	6 00
" Golden-veined Red Coal, 3 yrs.	9.00
Ivy, Irish, 3 to 5 ft	8 00
Tecoma radicans, strong	8 00
Vinca minor blue and white	5.00
Wistaria, Chinese Blue, 2 yrs. tr	4 00
" " 2 to 3 ft.	6 00
" " 3 to 5 ft	8.00
" " heavy	12.00
" Chinese White	12.00

HYDRANGEAS.

Red Branched, 2½ inch pots	5 00
" " 4-inch pots	8.00
" " 5-inch pots	10.00
" " 6-inch pots	15 00
Otaksa and Thos. Hogg, 2½-inch pots	4.00
" " 4-inch pots	6.00
" " 6-inch pots	12.00
Sapphire (new blue), 2½-inch pots	5 00
" " 4-inch pots	8.00
Sapphire (new, blue), 5-inch pots	$10.00
" " 6 inch pots	15 00
Paniculata grandiflora, 1 yr., 12 to 18-in	4.00
" " 1½ to 2 ft	5 00
" " 2½ to 3 ft	6 00
Oak-leaved (hardy), 12 to 18 in	8 00
" " 2 to 3 ft	12 00

ROSES.

Hybrid Perpetual, 1 yr	10 00
" " 2 yrs	15.00
Alfred Colomb, Anna de Diesbach, Caroline de Sansal, Coquette des Blanches, Gen. Jacqueminot, Jules Margottin, Gloire Lyonaise, Jean Liabaud, John Hopper, La France, Louis Van Houtte, Mme. Plantier, Magna Charta, Paul Neyron, Perle des Blanches, Prince Camille de Rohan, Victor Verdier.	
Climbing, 2 yrs., and strong 1 yr	7.00
Anna Maria (Pride of Washington), Baltimore Belle, Gem, Russell's Cottage, Seven Sisters (Greville).	
Sanguinea, 2½-in. pots, well established	5.00
" 6-in. pots	15.00
CLOTILDE SOUPERT, 2½-in. pots, strong	6.00
" " 5-in. pots, fine	12 00
Mrs. DeGraw, 2½-in. pots, strong	6 00
" " 5-in. pots, fine	12.00
Sweet Brier (true), 1½ to 2 ft	5.00

25 at 100 rates. All stock is A No. 1 and in prime condition. Packed free of charge when cash for ful amount accompanies the order.

For other varieties of Vines, Roses, and for Shrubbery, Deciduous and Evergreen Trees, Hardy Herbaceous Plants, Fruit and Nut Trees, Small Fruits, etc., see our Semi-annual Trade List for Spring of 1892, mailed free to all florists and nurserymen who ask for.

J. T. LOVETT CO., Little Silver, N. J.

Established OVER 50 YEARS. *Largest and Most Complete Stock in the United States.*

FRUIT and ORNAMENTAL TREES

Evergreens, ROSES, Shrubs, Grapes, Hardy Plants, Pæonies, Small Fruits.

ELLWANGER & BARRY, Mount Hope Nurseries, ROCHESTER, N. Y.

New Illustrated and descriptive priced General CATALOGUE, containing information *indispensable to planters*—the *most complete* published FREE

Hardy Border Plants

The finest collection in America.

Ornamental Trees, Shrubs, & Conifers

Second to none, the largest in New England.

LARGE AND SMALL FRUITS.

Proved for the climate of New England.

Descriptive Catalogues, unexcelled for completeness and correctness, free.

WHOLESALE LIST READY.

If you have been overlooked, drop us a postal.

THE READING NURSERY,

JACOB W. MANNING, Prop., Established in 1854. READING, MASS.

OUR TRADE LIST IS NOW READY.

SURPLUS AS FOLLOWS: Climbing and Tea Roses, Clematis Jackmani and other large flowering sorts. Pyramidal Arbor-vitæ 2 to 5 feet. Shrubs, 2 to 4 feet large variety, strong clumps. 15,000 Houghton gooseberry 2 and 3 years.

SELOVER & ATWOOD, Geneva, N. Y.

CYDONIA JAPONICA

For HEDGING. $5.00 per 100.

AZALEA AMŒNA

$3.00 per dozen. All kinds of

Ornamental Nursery Stock.

Send for Descriptive Catalogue and Wholesale List.

SAMUEL C. MOON, Morrisville, Bucks Co., Pa.

BLOOMINGTON (PHŒNIX) NURSERY. 600 ACRES. 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, Shrubs, Roses, Vines, Small FRUITS, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS. Priced Catalogue mailed free. Established 1852.

PHŒNIX NURSERY COMPANY

Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.

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Cycas Leaves

fresh cut, fine fronds, at $1.00 each, net cash. Natural, prepared to retain their fresh appearance, in four sizes, at 25, 40, 50 and 60 cts. each; quite a reduction if bought by the original package of ten.

Satin Bows

for funeral or cemetery pieces, in plain or embossed style (flower pattern) with gold or silver inscription "At Rest", edged with gold or silver fringe to match, in assorted patterns and three sizes, at 45, 60, 75 cts. and $1 each.

Capes and Immortelles

fresh crop Cape Flowers, prime white, in two grades, AA at $1.10, A at 90 cts. the lb., or $1 and 80 cts. net cash.

French Immortelles at $3 00 the dozen for natural yellow; $3.60 for white and other colors, less ten per cent. for cash.

Florists' Supplies

All Requisites for store or greenhouse; compare our Trade List of last Fall; also Special list for **FLOWER SEED and SPRING BULBS.**

Catalogue free to the trade on application with business card.

Address LETTERS TO STATION E.

AUGUST RÖLKER & SONS,
136-138 W. 24th Street,
NEW YORK.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
56 N. 4th Street,
PHILADELPHIA, PA.
Our new Catalogue is now out, free upon application.



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IS OUR
SPECIALTY.
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Phila. Immortelle Design Co.,
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ELECTROTYPING.
Done with expert ability for Florists, Nurserymen, Seedsmen. Write to
J. Horace McFarland Co.,
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LYCOPODIUM.
First-class Bouquet Green, at $3 per 100 lbs.
—CASH WITH ORDER.—
BRUNO PECHSTEIN,
MEDFORD, WIS.

Tobacco Stems.
I make a Specialty of packing stems for flower growers.
Prices and references sent on application.
H. A. STOOTHOFF,
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FRUIT EVAPORATOR
THE ZIMMERMAN
The Standard Machine
Different sizes and prices. Illustrated Catalogue free.
THE BLYMYER IRON WORKS CO., Cincinnati, O.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Easter Novelties.

LATEST PARISIAN STYLES

BASKETS.

THE "JANSEN" CELLULOID POT COVER, FROM 6-INCH TO 15-INCH, TO FIT ALL

STANDARD POTS.

Also a number of other Pot Covers, from 15 cts. to $3.00 each.

LATEST NOVELTIES IN NICKEL AND SILVER FERNERIES.

FLORISTS BASKETS A SPECIALTY.

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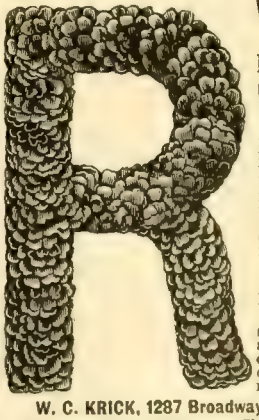
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THE MOST USEFUL BOOK EVER PUBLISHED.
Teaches you how to do better what you now do. How to do properly what you now do improperly. How to do many things that you cannot do now. Send for it. **PRICE, $1 00; MAILED FREE.**
VOORHEES & RUDD, Publishers, BLUE ISLAND, ILL.
AGENTS WANTED.—There is more money for agents in this book than in any article ever handled. Write us.

PAINT. **DISTANCE NO OBJECTION,** In spring is generally the time when the wear of winter is made good, and careful men paint up. If you are about doing such work, I should be glad to supply you with stock. We try to turn out the most substantial goods at close figures **AND DO IT.** Profits are close, and the only way we can manage is to keep the mills going steadily, our plant enabling us to turn out stock comprising paints for all purposes. We are located at one of the best shipping points in America. Your business is solicited, and prices made delivered at the nearest R. R. station to your establishment.
BENJAMIN HAMMOND, **FISHKILL-ON-HUDSON, N. Y.**
N. E. Corner Long Dock.

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
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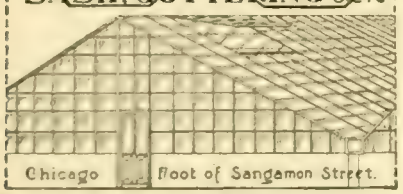
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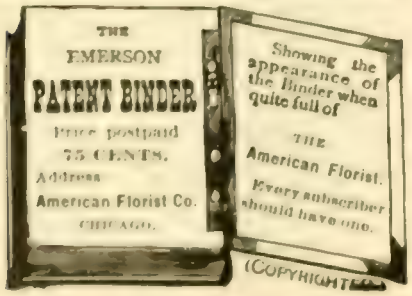
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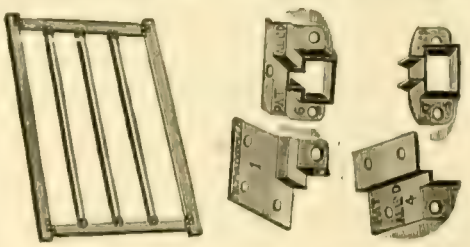
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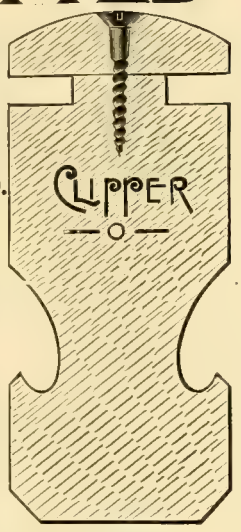
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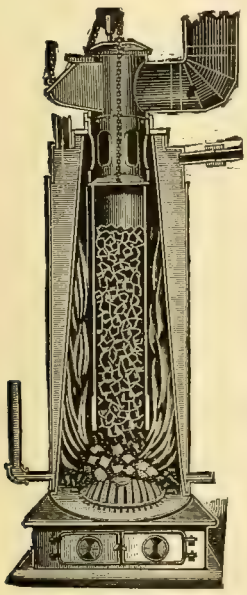
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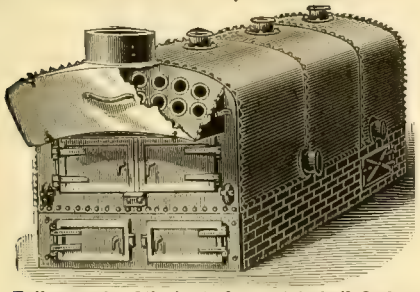
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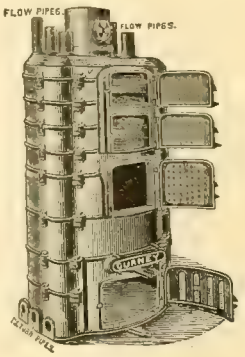
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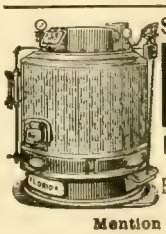
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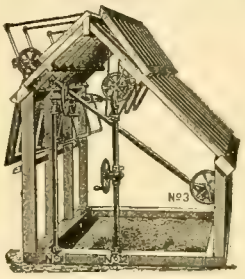
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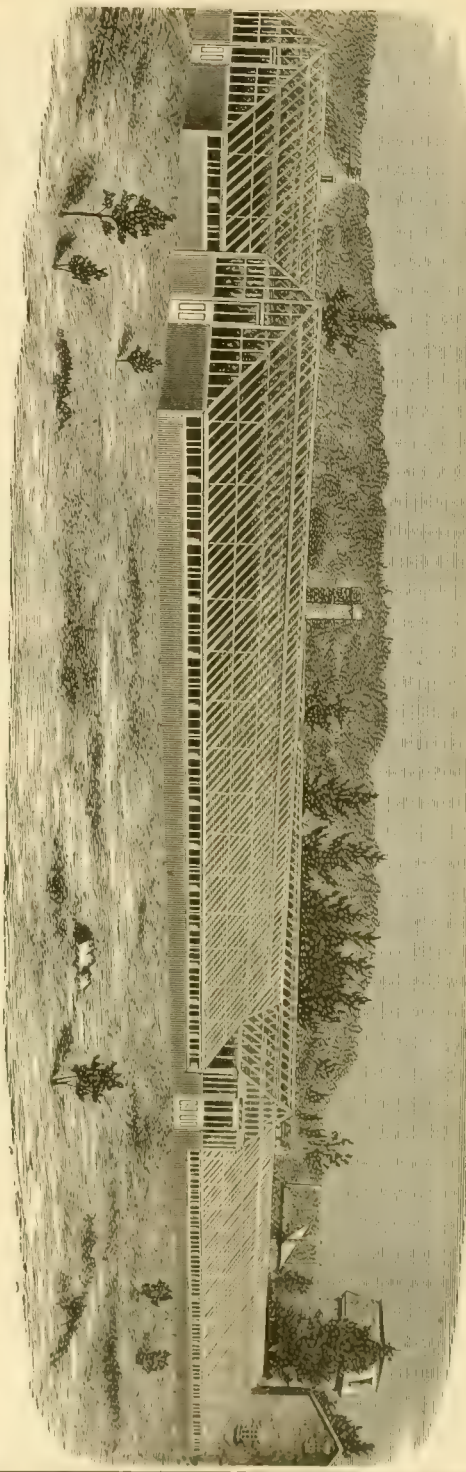
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Vol VII CHICAGO AND NEW YORK, APRIL 7, 1892. No. 201

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THE Society of Indiana Florists has issued an advance premium list for its sixth annual chrysanthemum show, to be held at Indianapolis November 15 to 19 next. The leading prize is for ten plants, one of a kind, $100 for first, $75 for second and $50 for third. Copies of the list may be had on application to the secretary, Wm. G. Bertermann, 37 Massachusetts avenue, Indianapolis, Ind.

THE THEORY OF DESIGN IN DECORATION

II.

Church Decorations.

There are especial features in architectural style which are as unmistakable as the personality of the friend with whom we are intimate; his face, his carriage, his voice and his gesture, are each without the other, sufficient for perfect recognition. We may shut our eyes and the simple tone of voice in a "Yes" or "No" bespeaks our friend.

Now the character of true architecture is much the same; the principle which governs the style is quite as apparent in the door or the window as in the general plan of the building.

Usually architectural style is decidedly pronounced in a church edifice; and it therefore follows that nowhere should we be more careful about the character of our floral decorations than here.

Let us take, for instance, a church of the ordinary Gothic type. Look within at its lines, the perpendicular ones are predominant; before they reach the roof they branch out in strong, subtle curves much as do the branches of our American elm; see Fig. A. Where may we find any circles, round arches or horizontal lines? There are few, if any. This is the first thing we need to learn before we begin with any scheme of decoration. At once we should seize upon the especial feature which characterizes the architecture. It is not impossible in the employment of flowers for decorating the church, that we may carry out this principle still

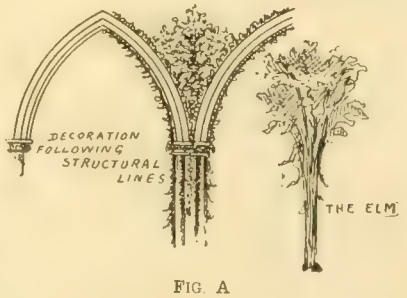


FIG. A

farther, or emphasize it by some contrasting features. There is no flower so admirably calculated for Gothic surroundings as the Lilium Harrisii; look at the stalk and leaves, they speak for themselves. At the base of some column or cluster of columns near the Chancel, group the lilies as in Fig. B, and note how well they agree with the surroundings. About the base of the lilies just those charming little "low down" flowers like the violet and primrose are quite in place; it needs only a clever hand to adjust the flower pots, the moss and the bits of green to make the whole appearance natural and unconventional. Occasionally at the front of a square or octagonal pulpit we have seen the much abused



FIG. B

"emblem," perhaps an anchor, a cross, a wreath, or even a pendent cushion with the word "Easter" thereon. It is unnecessary for me to describe exactly the effect such things as these produce on one's mind; I fear to say anything lest it should be sharp and unjust.

The object just before us is not to discuss or criticise conventionalities, it is rather to break away from them and open a clear straight path to newer things which may possibly prove better than the older ones.

A wreath in the Gothic church is almost out of place, a festoon is most certainly an ill-fitting feature, for instance, where in the name of all that is common sensible is there any relationship between a festoon and a pointed arch arranged as in Fig. C.

As I have said in a previous article, if there are any *lines* needed for artistic effect by all means let them subordinate

themselves to the structural ones (see Fig. A), which the architect composed on an art principle, or else he did not understand the primary meaning of the word. I should not festoon the pulpit. I should not wreath the altar. I should first study



FIG. C.

the *lines*, then if I saw an opportunity with an eight cornered affair to do something like Fig. D I should do it. There can not possibly be any objection to a flower covered cross; my own preference would be a silvered one, tastefully arrayed with such roses as the Cornelia Cook, the Bride or the Niphetos, with their foliage. I do not see why the material forced into the compact flower cross could not be utilized to better advantage. I cast certain commercial reasons aside; of course if one is ordered to make up such a cross there is no alternative, but that does not alter the artistic side of the case.

That honest structure should be perfectly apparent where it is practicable is one of the cardinal principles of the true theory of design; on *that* principle I think the flower cross is not quite honest, nor is there any common sensible basis of reasoning which can prove anything to the contrary. The spirit of the emblem does not require the forcing of material into shapes incongruous with it.



FIG. D

Over the altar there may be an opportunity for the decorator to make the cross beautiful, my rude sketch (Fig. E) is merely a suggestion for its general appearance.

If the perpendicular lines in the chancel can be rendered beautiful by green, twine the smilax, laurel or other green material spirally about columns or parallel with mouldings.

It may be suggested that the spiral has nothing in common with Gothic ornamentation, but the single fact of the beauty of the apprentice's pillar of Roslyn Chapel in Scotland will prove something to the contrary. Twine garlands by all means wherever there is opportunity; the beautiful effect produced will speak for itself. Now, what can we say about banks of plants, azaleas, cinerarias and all such? These may be so easily adjusted to open spaces, shady corners and prominent positions that with a word of advice we may dismiss this branch of the subject. Be careful again about color effects, centralize the strongest color and keep all the structural forms of the plants in sharp contrast with each other.

Behind the altar comes the best opportunity for the decorator. In all likelihood there are tablets with pilasters between, the latter are well defined positions for lily clusters; the tablets, if it is desired, are good spaces for a backing of solid foliage, relieved at the base by a horizontal row of white carnations, narcissi or freesia, arranged as in the sketch (Fig. F); here the cross will be well relieved, and either side of it two silver vases of delicate tinted roses (I would not always use white) would greatly accent the artistic arrangement.

The brass reading desk is another position for flowers on stalk; no banking effect there would be of any artistic value. Perhaps below the pulpit the space can be banked to great advantage and the azalea, cineraria, narcissus and ferns can all do good service in such position.

Now as to the font, we will add nothing to artistic effect if we overburden it with a pyramid of compact flowers; this is so often done, and the waste of material is so perfectly apparent, that it is a pity we do not adopt some other plan for its decoration. It seems as though a *bed* of small narcissi, of violets, or of primroses would be quite in place here, and why not a central cluster of fine well formed callas.

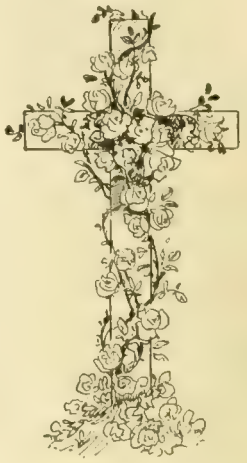


FIG. E.

Those flowers which like the iris are aquatic in character seem *most* appropriate to such a position, but I suppose we could not follow this idea very closely. The florist decorator, however, who has at his disposal material of an aquatic character will, if he adjusts it artistically, make his whole scheme of church decoration perfect by the contrasting appropriateness of his font decoration.

What a pity we can not employ the Egyptian lotus flower here, that flower had such a meaning to the ancients and is now beginning to have such a significance to us 3,000 years later!

We will leave our Gothic church now and consider one of another kind, Puritanic in character but Renaissance in actual type; what shall we do here, differing from what we have done in the Gothic interior? Both the wreath and festoon are exactly in place in Renaissance architecture, so is the turned pillar; here are horizontal lines in plenty, along which may be arranged potted plants or garlands of roses. Here there is a good broad desk in a central position, from the floor up to the very top edge of this we can group our potted plants with telling effect, and behind the desk, between the chairs, is a fine chance for splendid azaleas, a spreading array of these or of Lilium Harrisii arranged against the wall must be rich beyond description in effect, and at one's feet the homely flower pots may be hidden with banks of green moss, laurel, etc.

Spirea always looks to me, for some unexplainable reason, more at home in the Renaissance than in the Gothic church, perhaps because of its unconventional form and its absence of stiff lines. Let us use spirea in plenty if we have it, and we will do well to remember too that *balance* in the decorative scheme is of far less importance in this church than in the Gothic one; beside the desk, on one side only, we may make a strong point of some towering plants, the edges of the platform may be blooming with numberless plants all of unequal height and varying character, but the strong perpendicular lines of lilies should never break the horizontal lines of the platform; reserve the lilies for newels and desk corners.

It seems as though if we wish to use the words "Easter" or "He is Risen" in our decorations there are other methods of producing the letters better than that which employs flowers; we all know how defective the best flower-formed letters are; why do we persist in using such inadequate means to an end? The church text letter in my sketch (see Fig. G) is in better form and can easily be made from cardboard and silver or gold paper. Certainly a solid panel background of white carnations, deutzia or spirea is allowable and the cardboard letters are easily fastened to them. If colored letters are preferable use colored paper, but to my mind there is nothing gained in the flower letter; indeed, we need these flowers for something better, and further, why the panel should be *exactly* framed off with flowers it is hard to understand. We can begin with a stalk of lilies, or rather a crown cluster of them, then we can ease off our carnations with an irregular edge, a few blooms holding a drooping position. But to use more than two kinds of flowers and to force these into exact panel symmetry is to waste our energies in directions which have nothing to do with art.



FIG. F.

In regard to the Romanesque style, we have about the same regulations to follow as those given for the Colonial.

In the round arch we have a feature which has less of grace than of strength and which admits a freer principle for a decorative scheme than does the pointed arch. But in any event let our decorative work be appropriate and consistent; we must not be afraid to use plenty of green, and we *must* beware of the old fashioned conventional ways of packing flowers together. F. SCHUYLER MATHEWS.

Easter Decorations.

Easter is now close at hand and a few thoughts in reference to decorations of church and home may not be untimely.

The use of flowers at Easter as gifts and for home enjoyment is doubtless increasing every year. But we do not see the elaborate church decorations of former years, many of the churches that used to decorate extensively now confining their floral display to a solid cross of white flowers, a few pots of lilies or perhaps some slight trimming about the altar.

This decline from the former rivalry in extensive floral displays has been accounted for in various ways, the florists in their disappointment often attributing it to economy or parsimony on the part of those who control such expenditures.

But it occurs to me that possibly there are other and more creditable causes for the decadence of the fashion of large Easter decorations. Our churches are as a rule much more elaborate in interior ornamentation than they were a decade or two ago. Severe plainness in style and finish has given way to the other extreme of elaborate carvings, rich frescoing and gorgeous stained windows. The architect, fresco painter and gilder have taken the place of the floral decorator, and, without considering the injury apt to be done by the ladder, hammer and nails, it must be conceded that such profusely



FIG. G.

decorated interiors as most of our city churches now present will not admit of lavish floral deckings, especially as such work has generally been done.

The too common result of the conventional festooning and twining is to mar what is already perfect and to distort the lines of beauty and general architectural effect to such a degree that the sweetness and appropriateness of the flowers themselves are lost sight of, and people of taste experience such a shock to their artistic perceptions that they find themselves wishing the whole display were torn down.

Most frequently has this been the case when the enthusiastic young people of a church, whether from motives of economy, devotion or diversion, undertake to do the decorating themselves, without any plan or the slightest idea of any result to be accomplished other than to "hang up" the garlands and boughs according to the individual fancy of each, wherever a spot can be found to crowd them into. Hence it is not surprising that people of refinement have come to regard with indifference if not with detestation all attempts at such so-called decoration.

With the white walls and clear glass windows of the old time churches and halls it was a relief to the eye when the snowy columns were twined with the spiral strands of bright green, and the plain angular gallery fronts half hidden in the drooping loops of the same material, and the staring walls only served as a background upon which every spray, every tracery of green was brought out in beautiful distinctness. Given our old fashioned interiors to set them off and extensive Easter decorations would not be a thing of the past.

Yet there is nothing more appropriate or more suggestive of the true significance of the Easter festival than the flowers, and with a comprehensive plan carefully studied out and perfected by a true artist there can be nothing but the most gratifying results.

Such work can not be trusted to amateurs and volunteers. Intrust it only to one who has made the subject a study and knows how to work in harmony with the ideas of the architect and designer who have preceded him, in all his planning following scrupulously the lines which they have laid out, so that his work when completed will be but a part of a finished and perfect whole.

There is not a church in all the land so elaborate in finish that it can not be decorated with plants and flowers so as to heighten its richness and add to its beauty if the work only be placed in competent hands. Like landscape gardening this branch of the floral industry is yet in its childhood. The landscape gardener and the floral decorator of the future will be recruited from the highest rank and those professions will stand where they belong, in the same position of honor as the poet, the sculptor and the painter. S.

The Commission Man of the Future.

ACCORDING TO THE GROWERS.

He will sell out clean every day and in no instance will report any flowers as lost. But will admit without question that the grower himself could have sold the goods at a much better price.

He will never be guilty of the misdemeanor of questioning your count or of telling you that your flowers are not the best in the market.

He will sell for 10%, 5%, indeed he may be even willing after a while to pay a commission for the privilege of handling your flowers and will pay for every flower on the day they are received.

You may examine all his books whenever you please, in fact if you want to help him run the shop for half a day at any time you will be welcome.

ACCORDING TO THE RETAILERS.

A buyer may, if present, overhaul all the goods and select the best for himself. If at a distance he may telegraph at the expense of the commission man, who on his part will prepay all return telegrams.

On receipt of an order for anything which he cannot supply he shall immediately start out and scour the country for it and procure it at any cost, but shall in no case charge for it any more than the lowest price quoted within the past two

months. If the stuff is then not satisfactory he will at once cancel the charge and apologize. If he should fail to do this the customer will promptly withdraw his trade.

All buyers will be at liberty to make such alterations on his bills as they think proper.

No goods shall be sent C. O. D. and the prompt arrival of every railroad train on which flowers are shipped will be guaranteed.

He will sell nothing at retail.

If for any reason you wax angry at him he will immediately come to you and let you dance on him. COM.

De C'mishyun Man.

[A lecture delivered before the Blacktown F'orist Club by Prof Cha'k'ine.]



MR. PRES'DENT AN' GEMMEN: De time am now come w'en a man ken say a good word fer de c'mishyun man wivout runnin' de risk ob bein' mobbed. For sartin it am dang'rus in de wintah. At dat season de debil am poplarly b'leebed to make his headquatahs behin' de c'mishyun man's desk. Lawd knows I would not hab de t'merity to stan' yere 'bout Crismus time an' talk on de subjec' fer money.

Fustly, it am my desiah to 'press on you' minds de 'normous influence de c'mishyun man hab. Dah aint mo' den two scoah ob dem in de worl', and dem two sco' ken skeer up mo' trubble an' bad blood dan a whole poun' ob red peppah on de flo' at a weddin' dance.

Sec'n'ly, de greates' p'culariy 'bout de c'mishyun man am de way yo' done change yo' min' 'bout um. Las' week yo' would hab shot him at sight, to-day yo' lub him wif yo' whole hyart, nex' week de Law'd on'y knows jus' wat you' 'zact sentments will be. It am like de good ole hymn, De win' blow Eas' an' de win' blow Wes'.

Thirdly, my own 'sperence am dat de change ob affection am strickly in 'cordance wif de weathah, an' it take 'zackly opposite direction wif de retail dealah an' de growah. W-W-W'en de th'mometah am 'way down at de heels an' de snow fly, den de retailah he lub de c'mishyun man wif he whole hyart an' take keer dat he nebbah go home feelin' thirsty, but de growah he hab not de honah ob de c'mishyun man's 'quaintance. But w'en de spring days done come an' de growah hab to hiah 'noddah waggon to git all de stuff to town an' de cotton battin am locked up fer de season so de old lady kaint hook it fer bed quilts, den de growah he take great interes' in de c'mishyun man, but de retailah hab sudd'nly forgot dat de gemman hab a mout on him or dat he eber knew any such pusson. So de po' c'mishyun man he hab to walk in de same kin' ob a road dat Cristyan done trable in de Pilgrim's Progress, wif de deep miah one han' an' de hobgoblins on de oddah.

Finally, breddren, 'pears to me dere am too much back bitin' in dis yere floris' business. 'Deed it does. It am de gen'r'l impreshun dat a c'mishyun man hab no business to get rich, an if he done hab right smaht ob comfo'ts in de house it am regahded as suah proof dat he hab done stole de money.

Dat de audience may undahstan' dat I doant 'zackly 'scribe to dat sent'ment, I will 'speckfully reques' any c'mishyun man dat may be in de hall to pass de hat, w'ile we join in singin' de followin' hymn w'ich am embl'matical ob de or'nary relations between de growah an de retailah:

"Carve dat possum,
Carve 'im to de hyart."

Easter Plants at Home.

Easter flowers seem a necessity now; their vogue increases year after year, both for church decoration and home use. The lily trade alone is enormous, and when we add to this the quantity of hydrangeas, genistas and azaleas grown within a hundred miles of New York the marvel is where they all go to.

President Jas. Dean is well known as a successful grower of Easter stuff, making it his specialty, and his large place at Bay Ridge is especially interesting at this season.

Naturally he has lilies galore; he averages five thousand plants a season. They are all grown in pots, both Harrisii and longiflorum. Mr. Dean commented on the fact that these lilies now seem extremely mixed, many of the longiflorums especially showing a marked deviation from their original type. This might very readily occur on the Bermuda bulb farms, in the case of bulbs bought in widely different localities, while the variations are likely to be still greater in the case of seedlings.

Like many others, the writer always considered Harrisii far less substantial than longiflorum. Mr. Dean, however, does not hold this opinion, and there is no doubt he has the best grounds for his point of view. At Mr. Dean's request the writer handled flowers of the two varieties blindfold, to discover that the bloom confidently declared the hardest and firmest in texture was Harrisii! Another illusion gone. Mr. Dean keeps lilies, like all his stuff, as cool as possible; towards the last the houses are kept so open that the plants are practically out of doors. This hardening process adds very materially to their value, as it enables them to bear changes in temperature and position without injury.

Azaleas seem to keep their popularity year after year, nor do the varieties appear to change. A new one noted was Vervæneana; the flowers are extremely double and very large; color, a clear light pink bordered with white.

The hydrangeas noted were all Otaksa, which continues to be the favorite sort for forcing. The plants were all of medium size; experience proves that the exceptionally large plants are not needed in quantity, since they are only available for very large decorations.

Genistas were to be seen in all sizes, some veritable trees, which make their appearance year after year in big church decorations. They look rather formidable to handle, when covered with bloom, but no packing is required, as they are transported in big vans. The small genistas, in six-inch pots, make a mass of golden bloom; a very attractive size.

Like most plant fanciers, Mr. Dean has some of the fine French cannas, which have been blooming all winter. He has been raising some seedlings; among them is one in particular for which we may confidently predict a big future. It has foliage of remarkable beauty, a rich red bronze, without any green tint; the flower is orange. Growth, similar to Crozy; the richly colored foliage makes a fine contrast with the green-leaved varieties.

There is no material for cut flowers on this place; excepting some houses of fine palms the place is practically filled with Easter stuff.

In flowering such plants as azaleas the grower has to do some very close figuring, so as to have them in good condition at the right date. White azaleas need especial care, as the flowers become discolored when exposed to a cold, damp atmosphere.

Another famous place at Bay Ridge is the Keller establishment. Mr. Keller grows palms and other decorative plants, displaying a lot of fine kentias, but the Easter stuff is his specialty. One large house filled with hydrangeas made a grand show, the plants being so uniformly fine. Otaksa was the prevailing sort, but there were some hortensis among them; this variety, however, does not force so strongly as the former. One was almost tempted to call the mass of hydrangeas the finest thing to be seen, until attention was directed to the specimen azaleas. Flag of Truce made an especially fine specimen, well flowered, while Vervæneana was again admired. While a majority of the azaleas were imported, a few home grown plants were seen, but the comparison was overwhelmingly in favor of the foreigners. The advantage abroad may be as much in the soil as the culture, but there is no doubt the Dutch and Belgian growers produce a rich and luxuriant foliage apparently not to be obtained here. This difference in the foliage is fully as marked as the difference in habit of growth. Astilbe is to be seen in pots, but we are told it has seen its best days, and is now gradually going out of favor.

A decided novelty noted at Mr. Keller's was Kalmia latifolia forced in pots. This plant, Mountain Laurel or Calico Bush, as some unromantic souls call it, is one of our handsomest native shrubs, and its clusters of waxen white or faint pink flowers should make it highly desirable, if it takes kindly to forcing. The plants seen at Mr. Keller's were pot-grown specimens from Holland, and though the leaves were paler than when grown outside, the flowers gave promise of full luxuriance.

Genista was plentiful and well-grown, the plants all being raised on the place, instead of imported. Two varieties were grown, G. racemosa, and G. canariensis. The first named is the handsomer of the two, flowering more abundantly than canariensis, and the longer racemes give it an appearance of still greater luxuriance. Otherwise the difference between the two plants is but slight, and they are sold without distinction, other than size.

Mr. Keller has a fine lot of marguerites, which are always popular as a spring plant. There is comparatively little complaint this season of the vexatious disease (or insect?) which has done so much injury to the foliage of this plant.

Pæonies were among miscellaneous plants forced by Mr. Keller; some of the showy herbaceous varieties are much admired around Easter. In fact, any flower



THOMAS YOUNG, JR.



ALEX BURNS.



WALTER F. SHERIDAN.



JOHN YOUNG.



I. I. RAYNOR.



EDWARD C. HORAN.



FRANK D. HUNTER.



FRANK MILLANG.



CHAS. MILLANG.

suggestive of spring is sure to take; for this reason we find cinerarias very popular, for in spite of their stiff habit and aggressive colors people always like their spring-like freshness. Cinerarias are usually plentiful in the hands of the peddlers, a good many being grown at little places which do not deal with the wholesale trade. EMILY LOUISE TAPLIN.

Easter Jottings.

If the American florist could see the fields of Lilium Harrisii as they are now beginning to bloom in Bermuda, it would make his eyes grow green with envy. The fields are now beginning to bloom, and are so white as to look as if almost covered with snow. If these flowers could have been shipped from Bermuda with anything like satisfaction, they would have destroyed the value of the lily as an Easter flower. From the fact that lilies grown under glass here can be shipped to long distances, many thought there was no reason why the flowers could not be shipped from Bermuda, as the voyage was but three days, and as the probabilities seemed in favor of it, many would never be convinced until they had tried it. We tried shipping these when we first went into growing Lilium Harrisii in Bermuda some ten or twelve years ago, and after two or three seasons' trial found it an impossibility to bring them into New York in good shape, and this was in the days when fancy prices were realized, and Easter lilies used to touch $35 per 100, and almost anything in the shape of a lily was salable. Two or three years convinced us however it was an impossibility to do it. One of the reasons for this is the time of the arrival of the steamer. The steamer arrives in New York on Sunday, and necessitates the shipment of flowers some ten days previous to the time they would have to be used. This has no doubt been the greatest disadvantage, but another thing is the fact that out of door flowers, do not possess the substance that flowers do that are grown under glass; this is true not only of lilies but of all other flowers, a notable instance of which is the rose. There is as much importance to our mind in the proper cutting and handling of a crop for market as there is in growing it. We have found in many cases men who would grow lilies splendidly, that at the time of marketing, would ruin them by improper methods of handling. Years ago it was claimed that the Harrisii was nothing like as good as longiflorum, and that the latter would drive Harrisii out of the market for an Easter flower, but time has proved this assertion was not well founded. It is true Harrisii does not possess the substance that longiflorum does, but that it has all the necessary qualities for a good flower is beyond question, when the flowers are properly cut and handled.

Nine florists out of ten leave their Harrisii in the sun altogether too long after being ready to cut. Our experience has shown that as soon as the flowers are open enough to remove the pollen, the flowers should be cut and put in water in a dark cellar, and when cut in this condition the flowers never assume a transparent and papery form, but have a waxey appearance, which is most desirable. This of course refers more particularly to the smaller sized lilies grown for cutting, on which there is but two, three or four flowers to a stem. If lilies are grown cool and advance slowly, it will be found that when the first lilies begin to open, if cut in the manner described, the remaining buds will open as well or better in water, as in the house, and it keeps the first flowers in the best condition, much better than if allowed to stand in the heat and sunshine in a greenhouse, to open the second flower. Substantially the same treatment is used for pot plants, if the waxiness of the flower is to be kept. Where florists have facilities for doing it, a greenhouse darkened artificially, where a low temperature can be maintained, and where there is no draft, or a cool shed or cellar, is very much preferable for holding the flowers and prevents their being damaged, and allows many more flowers to open on the plants, without spoiling the first flowers that have opened. Lilies when they begin to flower should never suffer for water as it injures the quality of the flowers.

Notwithstanding the fact that Easter Lilies cannot be shipped from the open ground in Bermuda on short trips to New York successfully, it is a fact that greenhouse flowers, properly cut, as just indicated, can be shipped almost across the entire United States with perfect safety. We have repeatedly made shipments as far as Texas, and as far west as Colorado, and the parties there assured us the flowers on arrival were quite as fresh as if just cut and packed. We have found the best results in shipping long distances were obtained from lilies that were cut as soon as they were open enough to remove the pollen from the flowers and put in cool cellars for a day, and allowed to harden and cool off, then packed in the early morning with a little cotton between the flowers to keep them from bruising, and the box packed as tightly as it is possible to pack them. More flowers are injured by *loose* packing than almost any other one cause.

Care should always be exercised when packing flowers away in a cellar, that they be *absolutely dry*, as the least bit of moisture on the flowers will discolor and ruin them. Any cellar where the least condensation occurs is always ruinous, and the flowers that have been put away for a week should be examined to see there is no condensation, as we find it will sometimes occur on lily flowers when roses and other flowers would never show it. A lily properly cut can be kept two weeks without being hurt in the least, or impairing their waxiness and durability. Occasionally they will show signs of flabbing; when this occurs they should be removed from the jars, the stems freshly cut, and they will shortly be as good as ever. Lilies shipped long distances should always have their stems freshly cut, and then placed in a cool dark cellar for half a day before using; this will be found to improve them very much.

Harrisii lilies have been very plentiful during Lent, in fact have been a drug on the market, but we believe this to be from the fact that Easter is so late, and that the warm weather has brought many crops in ahead of time. But from the present indications I think Harrisii will be rather scarcer than otherwise at Easter, and that the demand will exceed the supply, and that prices will take a sharp turn upwards at that time in consequence. Warm weather and a late Easter has no doubt thrown many crops into bloom earlier than the growers would have desired could they have deferred their season of bloom and controlled them, as they would have wished.

F. R. PIERSON,

Tarrytown, N. Y., March 31st, 1892.

Spring Exhibition Pennsylvania Horticultural Society, Philadelphia.

The spring show of the Pennsylvania Horticultural Society for 1892 has come and gone and all those who have been identified with its success have cause for congratulation.

Many florists and others outside of Philadelphia do not know that there are two distinct horticultural organizations in this city—the old time-honored Pennsylvania Horticultural Society and the Florists' Club of Philadelphia. The former has been in existence 60 odd years, while the latter was called forth for the purpose of aiding the S. A. F. at its second convention which was held here in the summer of 1886. The club has ever since that time cherished a sincere affection for the older society on account of courtesies extended on that occasion and since.

For two or three years past the club has taken charge of the decorations at the spring and chrysanthemum shows, but on this occasion it was much more elaborate and complete than has ever before been attempted. Headed by John Westcott most of the members of the club turned out and worked with a will until Horticultural Hall was transformed into what has been aptly termed a veritable bower of grace and beauty. Much of the material used in the decorations came from Caldwell, the Woodsman, (*On Dit*, George is about to become a Benedict in leading a rich widow to the altar. We wish him all the joy and good fortune this life affords). The southern smilax, palm leaves, etc. were very effectively draped in front of the balcony. Evergreens were used as a screen from the promenade beneath and as a background for the exhibits. In each corner was an alcove with rustic seats invitingly arranged, which were never vacant. The enchanting music furnished by Hassler's orchestra added much to the enjoyment of all visitors.

Mr. George Huster, superintendent of the horticultural department at Girard College, came out nobly with exhibits of choice flowering and other decorative plants. His group in the center of the hall was an attractive feature. The judges awarded a silver medal for taste displayed in this arrangement. It consisted of graceful palms, highly colored crotons and well flowered azaleas. His groups which flanked the stage were also much admired, and proved an almost universally accepted invitation to ascend the rostrum and admire the specimen latanias and thrinax palms of Wm. Joyce, gardener to Miss Baldwin, and the unique collection of cactuses of A. Blanc & Co., which were very effectively arranged on this elevation. Though not so large and complete as that made at the shows last year it proved to be a drawing card.

Two large specimen plants, mounted on pedestals and occupying positions in the main, hall, were brought from the conservatories of Mr. Geo. W. Childs by Mr. J. M. Hughes, the superintendent. This is the last time they will appear here as Mr. Childs has generously donated them to Mr. John Thorpe, of the World's Fair. One is the Cibotium regale (Dicksonia regalis), the royal palm from Mexico, and the popular Latania borbonica (Livistona chinensis). Mr. Hughes had also a large group of palms in variety, pandanus, aralias, etc., among which were some well grown specimens. These were not brought for competition, but a special premium was deservedly awarded for general effect.

Mr. Joyce was awarded first premium



P. WELCH.



L. T. PECK.



N. F. MCCARTHY.



EDWARD J. WELCH.



GEO. A. SUTHERLAND.



E. H. HUNT.



FLINT KENNICOTT.



S. S. PENNOCK.



I. L. DILLON.

for a display of plants occupying not less than 100 square feet.

Mr. Thomas Long, gardener for A. J. Drexel, Esq., received first premium for ferns, and they certainly were a fine lot, every plant a specimen, clean and healthy and of large proportions. One worthy of notice, though perhaps the smallest plant in the group, was Adiantum Williamsii. This is sometimes called the "Golden Maiden Hair" on account of the young fronds being dusted with a fine yellow powder. Two Davallias—affinis and Fijiensis (species of the hare's foot fern)—were prominent, so also were the crested forms of Microlepia hirta and Pteris crenulata and the Gleichenia circinata. The premium for new or rare plant was awarded to the same exhibitor for Araucaria excelsa glauca, Napoleon Joseph Baumann. It is larger than the type, as the name no doubt suggests. First premium for collection of palms also.

Mrs. Harry Ingersoll's gardener, Fred R. Sykes, made an interesting display of flowering plants, some of which are seldom seen in collections nowadays. The Inga pulcherrima was hardly known to anybody, with its crimson flowers. And the Francisca latifolia, brush like, sweetly scented and of a lavender color, varying according to the length of time the flower had been expanded, those having been open longest being almost pure white. An Ixora was in bloom in this lot, which was noticed by the old timers; it is so long since a plant of the species had been seen here.

Another attractive feature was a group of azaleas, which came from President Dean (S. A. F.), for which he was awarded a silver medal. The parti-colored and large flowered Vervæneana, the bright red Eugene Mazel, a few good plants of the popular rose pink Van der Cruysen, Ma Camille Van Langenhoe, Ceres, and the beautiful double white Deutsche Perle.

Mr. W. K. Harris had some nice well grown plants of azaleas also. A delicate blush pink, double flower named Princess Victoria struck me as being the most beautiful variety I had ever seen. Azalea men will do well to remember the name and secure a stock as early as possible, for it certainly will *take* with those who discriminate when buying this class of plants. "In memory of Louis Van Houtte" (too long a name), an extra fine variety, being similar in color to Van der Cruysen, but the flowers are larger. Emperor of Brazil is an attractive variety, so also is Niobe, a greenish white, very pretty.

J. W. Colflesh exhibited azaleas also, and Marguerites, Zonal pelargoniums and the best carnation plants in bloom in the exhibition. He also exhibited cut flowers of his new variety, Mrs. Colflesh. It is bright pink in color and has very long stems.

Cinerarias were out in good force, those from Albert Woltemate being exceedingly well grown. They were dwarf, had good foliage and the strain was extra good.

Robert Craig made an excellent display of Araucaria excelsa and A. excelsa glauca, besides other foliage plants, and double daffodils in boxes.

William Berger, of Germantown, had by far the largest display of spring bulbs. For some reason not easily explained this part of the show was behind that of former years in point of number. The hyacinths that were here were as good as could be wished. The trumpet narcissus were also good. Maybe the small amounts in premiums offered had something to do with the meagre display. The better varieties of "Trumpets" are rather high in price, and perhaps this may have had an influence on the entries in this class.

In the class for best new carnation not yet in commerce there were four competitors. Edna Craig, the winner, is a delicate pink on stout erect stems. It is one of Mr. Fred Dorner's seedlings. The prize is a silver cup, offered by Mr. Craig. The other competitors were "Grace Battles," also a delicate pink on stout and very long stems. One thousand dollars has been offered for half the stock of this variety. The Mrs. Colflesh was also a competitor. Sentinel, a scarlet, was exhibited in the same class by E. G. Hill & Co. This is one of Mr. Dorner's seedlings also.

There was no competition for the Wentworth prize (offered by Dr. Williams) for carnation plants in pots, but in the class for the best collection of cut flowers, offered by the same gentleman, there were two entries, C. J. Pennock, Kennett Square, Pa., and H. E. Chitty, Paterson, N. J. The former was awarded the first premium, list of varieties follows: Whites—Pearl, McGowan, Lamborn, Mrs. Fisher, Mlle. Carle, Hinze's White, Snowden; Reds—Portia, Century, Constancy, E. G. Hill, Pride of Kennett, Anna Webb; Pinks—Grace Wilder, Fred Creighton, Dawn, Grace Fardon, Mrs. F. Mangold, Daybreak, Angelus.

Mr. Chitty's collection contained the following: Grace Wilder, Robert Craig, Nellie Lewis, McGowan, Lamborn, Hector, Dawn, Portia, Tidal Wave, J. R. Freeman, Am. Flag, Creighton, Mrs. L. Fawcett, Buttercup, W. F. Dreer, Pride of Kennett, Silver Spray and Anna Webb.

A seedling which attracted much attention was, unfortunately for the exhibitor, without his name attached. The name of the variety is "Myrtle," and it is similar in color and markings to the old Duke of Orange. It is a much better flower than the "Duke." Edward Swayne had a fine flower here, a creamy white, good in form, an unbursted calyx, a circular fringed flower and with stout, erect stem. A new name as an exhibitor of seedling carnations is F. L. Kohr, of Lancaster. His No. 53 is a delicate pink, the outer petals standing straight out, is good in form; No. 23 is yellow and red, after the style of Sunrise, but the color is more decided and the flower is much larger.

W. R. Shelmire, Avondale, had at the show his sport from Buttercup named Mrs. Stanley. This is orange in color, with red marking, very showy, and it is sweet-scented, something unusual so far as I know for a sport to take on the quality of fragrance, when its parent is entirely devoid of odor. His Cæsar, salmon striped red, attracted a good deal of attention on account of its fine form, complete calyx and strong stems. The self colored sport from the last named is identical with its parent excepting in color, which is red.

A. M. Herr of Lancaster, had some fine examples of last year's novelties, namely: Daybreak, Hector and Lizzie McGowan. The same may be said for Chamblers Bros., who had extra fine flowers of their new Grace Darling and the old Portia and older Buttercup.

J. J. Styer, Concordville, had a fine vase of the much abused and much praised Lamborn. The flowers here shown certainly deserve all that has been said in this novelty's favor. Robert Craig, in addition to his Edna Craig, exhibited some fine flowers of Lizzie McGowan, which he declares has paid him better than any variety he has grown this year. He is so well pleased with it that he is about to have the house in which it is growing photographed.

For collection of orchids in bloom first went to Edwin Lonsdale; second, to Siebrecht & Wadley; third, to David Emery, gardener to Chas. Dissel.

In plants in pots, open to growers only, first premiums were awarded to Thomas Long, gardener to A. J. Drexel, for 25 varieties palms, 12 varieties ferns and new or rare plant; to W. K. Harris for 6 varieties azaleas, 6 hydrangeas, specimen hydrangea, 6 Marguerites, 50 tulips and 6 pots lily of the valley; to David Emery for 2 varieties azaleas, specimen azalea, specimen fern, 12 English primroses, Primula obconica, 6 callas and cyclamens; to J. W. Colflesh for 12 carnations; to Woltemate Bros. for 12 cinerarias; to Wm. Berger for 25 pansies, 12 anemones, 25 hyacinths, 12 ditto, 6 tulips, 12 ditto, 24 trumpet narcissus, 24 poeticus ditto, 24 double ditto, specimen lily and general display of spring bulbs; to F. R. Sykes for 6 English daisies; to John Curwen, Jr., for 6 begonias; to James Dean for collection of azaleas, a silver cup.

Special premiums in the same division were awarded to Rob't Craig for general collection of plants; to Henry A. Dreer for same; to Jno. M. Hughes for decorative plants; to Chester Davis for orchids and blooming plants; to Geo. Huster for decorative plants, and silver medal for taste displayed in arrangement of same; to A. Blanc & Co. for cacti; to W. K. Harris for palms and ficus; to Wm. Joyce for 6 specimen palms.

In cut flowers, open to growers only, Pitcher & Manda were first for collection of orchid blooms; H. E. Chitty for 25 scarlet carnations and 25 dark pink ditto; Wm. Swayne for 25 light pink carnations and 25 striped white ground ditto; J. J. Styer for 25 white carnations. In the rose classes Joseph Heacock was first for Perle, Niphetos, Bennett, Gontier, Sunset, Mermet, La France, Laing, Brunner, Magna, Wootton and Waban; M. C. Cheyney & Bro. for Bride; Heron & Nisbet for Cusin; J. W. Colflesh for Jacq; Thos. Monahan for Albany and Hoste.

The rose Bridesmaid (nee The Hugh) from F. L. Moore, Chatham, N. J., and J. N. May, Summit, N. J., were awarded first premium for new rose and a certificate of merit. It is lighter in color than Waban and of better form as seen generally, yet it is darker than Mermet.

J. F. Harris was first for collection of cut blooms of pansies.

In the cut flower classes, open to dealers only, Pennock Bros. took all the firsts in the carnation classes—taking that for 25 white with McGowan. In the rose classes firsts went to Pennock Bros. for Perle, Bride, Gontier, Am. Beauty, Cusin, Rothschild, Brunner, Magna and any other variety (Pierre Guillot); to Kift & Son for Niphetos, Bennett, Sunset and Laing; to Heron & Nisbet for La France.

In the carnation classes, for growers, first prizes were also awarded to Jos. Heacock for 25 crimson and to Wm. Swayne for 25 any color other than noted, taking the prize with the variety Dawn.

In floral arrangements Hugh Graham was first for basket and Bride's bouquet; Pennock Bros. for plateau and dinner table decoration; Heron & Nisbet for 6 corsage bouquets; Wm. Wunder for vase of roses; and Jos. Kift & Son received a special for decorative easel.

On Thursday the competition in cut flowers was repeated. In the rose classes for growers Jos. Heacock took first for

Perle, Niphetos, Bride, Gontier, Sunset, Mermet, La France, Laing, Brunner, Magna, Wootton, any other variety (with Pierre Guillot) and Watteville; Wiegand Bros., W. Hoboken, N. J., for Jacq, Capt. Christy and Neyron; Wm. Wunder for Waban.

In the rose classes for florist dealers Kift & Son were first for Perle, Gontier, Sunset and special for Albany; Heron & Nisbet for Niphetos, Bride, Mermet, La France, Hoste and Brunner; Pennock Bros. for Bennett, Beauty, Cusin, Jacq, Luizet, Laing, Capt. Christy. Neyron, Magna and any other variety.

Special mention to D. Zirngiebel, Needham, Mass., for display of pansies; to Wiegand Bros. for "Wiegand's Giant" mignonette; to W. K. Harris for lily of the valley.

Certificates of merit were awarded to H. A. Dreer for Daisy Snow Crest and display of cannas in bloom; to Chambers Bros. for carnation Grace Darling. Special mention to C. A. Knapp for display of bouvardia and to E. J. Canning for Primula obconica.

The special prizes offered by John Gardiner & Co. for mushrooms were awarded as follows: 24 specimens—First to David Allan, Boston, Mass.; second to N. P. McCaffrey, Moorestown, N. J.; third to Allen H. Heist, Doylestown, Pa.; fourth to Paul Reinhart, Germantown; fifth to Edward H. Harris, Moorestown, N. J.

A. Blanc & Co. presented visitors with a plant each of cactus on the last day of the show.

Notes about the orchids must be deferred until next issue. L.

Philadelphia.

Governor Pattison has proclaimed Thursday, April 14, and Friday, May 6, to be observed as Arbor Days in Pennsylvania, and upon one or the other of these days throughout the state will be celebrated the beautiful and beneficient custom of planting trees and flowers.

"I call upon the people," states the governor, "to lay aside for a season the habitual activities of a day and devote sufficient time thereof to plant a forest, fruit or ornamental tree along the public highways and streams, in private and public parks, about the public school house and on the college grounds, in gardens and on the farms, thus promoting the pleasure, profit and prosperity of the people of the state, providing protection against floods and storms, securing health and comfort, increasing that which is beautiful and pleasing to the eye, comforting to physical life and elevating to the mind and heart."

"Gifts that grow are best,
Hands that bless are blest,
Plant:—Life does the rest:
Heaven and earth helps him who plants a tree,
And his work its own reward shall be."

"Gifts that grow are best" is a good motto for the Easter trade and for the balance of the year, for that matter, as gifts that grow and that have been grown, are *the* gifts for the people.

Business has been only moderately active the past week and for almost the first time this season there has been too many carnations. They soon begin to nod these days and the florists don't care to carry a very large stock when they find they can't get them to wake up in the mornings.

Prices hold up well. Roses, small teas, 4 to 6; Mermets, Brides, etc., 6 to 8; hybrids, 25 to 50; smilax, very scarce, 25 cents for a very small string.

There were a number of store openings the past week, more or less elaborate; some of the florists make a specialty of this line and do quite a lot of it. They help to use up the flowers during Lent and prevent a glut.

Nearly 100 people sat down to the dinner given by the Florist Club in Horticultural Hall on Wednesday evening last. It was a very enjoyable occasion and will no doubt be held every season hereafter in connection with the annual spring exhibition of the Horticultural Society. There was no effort made to work up the attendance, still nearly 100 persons gathered about the board, lingering until the wee small hours and seemed loath to part even then.

Robert Craig sat at the head of the cross table. He looked a trifle pale and thin on account of his recent severe illness, but his manner and address were as bright as of yore. He seemed very glad to be with the boys again, but not more so than they, for he is the life of their social gatherings.

The boys were out for a good time and they had it. There was plenty to eat and quite sufficient to drink. John Westcott, as chairman of the committee, was very attentive to the wants of the members and invited guests, of which there were quite a number, though not as many as the club would have liked to have seen.

On Mr. Craig's right sat James Dean, Chas. Weathered, T. H. Flynn of Boston, John Hughes, gardener to G. W. Childs, Esq.; A. Dimmock of England. On his left were W. J. Stewart, W. A. Manda, David Allan, Boston; Edwin Lonsdale and John N. May.

There were many animated scenes as the different courses were served in quick succession and it was the best dinner the club has ever had in tnis respect.

With the advent of the cigars Mr. Craig rapped for order and made an address expressing his personal gratification at being able to be again present and see so many familiar faces, members of the club and also friends from other cities. He thought it a good time while the show was on, although it was the best spring show the society had ever had, to look forward to the one to be held next year and see how it could be improved; if there were not some plants not now shown which could be brought on next season to make the exhibition more attractive. He suggested varieties of narcissus and also cyclamen, which could be grown in a cool house and make fine show plants at this season.

"Our Friends from Boston" was the first toast and was responded to by W. J. Stewart, who said there were no boys like the Philadelphia boys and he was only sorry that they in Boston could not get them there oftener. They could not refuse their invitations to come to Philadelphia, but could not get the Philadelphia boys to come to Boston, and urged upon them to come at the first opportunity and they would not regret it.

"Our New York Friends" was responded to by Mr. Chas. Weathered, whom Mr. Craig said was the greatest florist over there. Mr. Weathered said that although he put up a great many greenhouses, he was not as yet a florist, but if ever he became one he was always going to come out ahead. He would like to see the florists of Philadelphia in New York on their next social occasion, not singly, but in a body, and he could assure them that they should have the best the country afforded.

Mr. Dimmock was now called on for a song, and sang "The Midshipmite," which was well received.

The Society of American Florists was now toasted and the sentiment was responded to by Mr. Dean, who said that a father was always satisfied when he saw his children happy and if there were any there who were not his children, they should get under his wing at once and become members of the society. He hoped to see a very large delegation from Philadelphia at Washington and predicted that it would take one of the largest engines to pull the train. He hoped that before long the Florists' Club of New York would have a building of its own, where it could invite its friends and show them the courtesies it would like. He had heard that there was a conspiracy among the Philadelphia chrysanthemum growers to capture all the first prizes at the show in New York next fall, but they would have a hard job on hand and he doubted if they could do it. Mr. Westcott said "they'll do it," and Mr. Dean said he would give $50 to see it done.

"Our Friends from Lancaster" were next toasted. Hr. Herr was called on, but declined in favor of Mr. Shroyer, who thought he could detect a good deal of Irish blood in the membership, from the quality of the stuff provided, which was of the first water, although there was not much water in it.

At this point some of the visitors had to leave to take the train for New York.

Horace Haines, who has a fine tenor voice, was now called for and sang "The Song that Reached my Heart." This was enthusiastically received and Mr. Haines for an encore gave "On the Bridge at Midnight."

"The Seedsmen" was the next toast and Z. De Forest Ely replied. He hoped for even greater unity between the florists and seedsmen and saw a great future ahead for both. As he did not believe that anybody present was of a very serious turn of mind, he would tell them a story, which he did in his best vein.

Archie Ferguson now sang "The Star Spangled Banner," and all present joined heartily in the chorus.

Brother Farson was now called on, and made one of his characteristic speeches. He first pleaded extreme modesty and then that he had been overworked, but he soon seemed to forget all about these small defects and made a speech that caught the boys, particularly the anecdote which was given as the wind up.

The American Carnation Society was now toasted and its president, Edwin Lonsdale, responded to the toast. He said it was very gratifying to him to see so many beautiful varieties of carnations on exhibition, but that the display was not to be compared to the exhibit at Buffalo. He was disappointed in not seeing the west represented. He was sure Mr. Dorner would have sent a collection if he had known of the cup offered for best variety not in commerce. Still he was glad to see the new varieties and note the wonderful improvement made in the past five years. He liked to look forward into the future and thought it would not be long before the ideal carnation would make its appearance.

At the close of his address the Grand Old Duke was called for and Mr. Lonsdale sang the famous song as only he can do it, being liberally supported in the chorus by all present.

Mr. Harris was asked to respond to the chrysanthemum, but said it was out of place now and he was not prepared to do it justice.

Horticulture at the World's Fair was a subject upon which Mr. Craig grew quite eloquent. He said it was of the utmost

importance that this department should be magnificently filled; that it would give a wonderful impetus to our business. In fact Mr. Craig, by his manner and enthusiasm, showed that he took great interest in this matter, and said it was to the interest of everyone in the trade to do what he could to make the horticultural department a success.

Mr. May was called on to respond. He said that floriculture should be represented as well as any other department at the World's Fair and that if all put their shoulders to the wheel and pushed as one man it will be sure to be a grand success. Every man can do something, and in the aggregate that means a great deal and is sure to produce good results.

Mr. Craig was now called on by Mr. Farson and sang a song entitled "Father O'Grynn."

Mr. Charles Fox was now called on to respond to the toast "Artistic Decorations." He said that he thought the society had taken on new life, that it was the best show he had seen for a long time. That such exhibitions would be sure to draw the people and would soon become the fashionable event of the season.

The trade press was now toasted and response was made by a representative of the Florists' Exchange in a few well chosen words.

John Walker was now called on and sprung a surprise on the boys in the shape of an original song written by himself, in which he had the names of members of the club arranged to rhyme, the chorus being the popular "Tar-ra-ra-Boom," etc., which was joined in generally.

Mr. Westcott's health was now drunk and Mr. Craig proposed three cheers for the hard working superintendent, which, with a tiger, were given with a will. Mr. Westcott thanked the boys for their good will, but said in his modest way that there were others who should be honored. The members of the Florists' Club were under obligations to the Horticultural Society and it was only right that they should do all they could at the time of the exhibitions to make them a success. When the society got some money in its treasury and could afford it there would then be decorations that would far exceed anything yet attempted.

There were other songs, by Messrs. Haines and Dimmock and the party broke up at a late hour with the singing of "Auld Lang Syne." The occasion is one that will long be remembered by those present.

Boston.

There is no special change in the situation as regards general cut flower trade from that outlined in last week's report. The weather being much warmer there is an increased supply of roses coming in and prices are somewhat lower. Carnations do not weaken any, however, and there is a quick sale for every good one that is obtainable. This is the case with white carnations especially, which have been eagerly called for all through the week and it has been impossible to meet the demand fully.

Funeral work seems to have been abundant enough to have made a good steady run on white flowers of all kinds. This, together with an unusually brisk transient trade for small amounts, seems to have kept the florists so busy that they have scarcely noticed the fact that it was the Lenten season. Parties of all kinds have been conspicuous by their absence of course, but taken altogether the dullness has not been as pronounced as was expected.

The banquet of the Gardeners' and Florists' Club on the evening of March 31st, was a very successful affair. It was held at the United States Hotel. There were about 100 present, a noticeable feature being the large proportion of the younger element attending. And a merry time they had. Not as hilarious as some such occasions are, but thoroughly enjoyable from a Boston point of view, where as is generally known, it is not fashionable to be over-demonstrative. And the Boston idea was further illustrated by the fact that when the hands of the clock pointed to 11 p.m., the banquet hall was deserted and the participants had all departed for their homes.

The position of master of ceremonies was gracefully filled by President Morton, and at his side sat the two invited guests of the evening, Mr. Alfred Outram, of London, and City Clerk J. M. Galvin, of Boston. Both of these gentlemen made entertaining addresses, Mr. Outram paying a hearty compliment to Boston's standing in horticulture, and referring particularly to a visit which he had just made to the conservatories of Mr. F. L. Ames, where he asserted he had witnessed a display of orchids in bloom such as he had never seen equalled at this season of the year in Europe.

Mr. Galvin's address was patriotic and assured his hearers that although holding now a position not identified with the florist trade, yet he still holds in highest esteem his old associates, and especially the Gardeners' and Florists' Club. Mr. P. Welch made a short and humorous address in response to the toast "The Society of American Florists," claiming, however, that the chairman had caught him unawares, as he had become so well accustomed to being called on to speak for the "Commission Man," that he was unprepared for anything else. Messrs. Dawson, Carroll, Ward, Stewart and others entertained the company with songs; sweet music was also furnished by the orchestra, and Mr. M. Curley, of Hyde Park, added to the entertainment by a series of impromptu but well executed pigeon wings whenever the nature of the music furnished the necessary incentive. All the departments of the business were well represented, including wholesalers, retailers, rose growers, carnation growers, private gardeners, seedsmen, boiler men and clerks. The one important toast which was unintentionally forgotten, one which is always eloquently responded to at a Florist Club banquet, was "The Ladies." Judge Hoitt and Secretary Elijah Wood were both unavoidably absent, a fact which probably was the cause of the oversight.

The meeting of the Bowling Club was well attended on Wednesday night. The scores are beginning to look up, several on this occasion running into the two hundreds. Lawrence Cotter made the best average, 165¼ in four games.

Mr. David Allan wears an expression of broad good humor, and a number of his associates hold their heads an inch or two higher since he came home with the big mushroom prize from Philadelphia in his pocket.

At Horticultural Hall on April 2 David Allan exhibited a number of rare varieties of Dendrobium nobile. Jas. Comley had a good stand of hybrid roses and Rhododendron Veitchianum.

Mr. P. Norton, who has been confined to his home by a painful carbuncle on his neck, is out again, although obliged to carry his head very high and unable as yet to make a bow or look up at the moon.

There are some very fine stocks of lilies for Easter in this section, among which those at J. M. Galvin's and Wm. Edgar's are particularly good.

New York.

Just now, in the dull time following mid-Lent, the trade is rather quieter than usual and the quantity of flowers gives the market a downward tendency. The past season has never seen an actual glut of flowers, and bulbs have been less plentiful than for several years. Even tulips remain at a fair price for the season, preference being shown for the pink and yellow varieties, which bring the highest price at present. Good pink tulips are scarce and will bring $5 a 100, which is a remarkably good price for the season. Violets are extremely plentiful. Single violets from North Carolina were seen at Young Bros.; they were large, deep purple and very lasting, but entirely odorless. They are quite unsalable, however, for buyers do not care for a violet without scent, and the single flowers are neglected when double ones are plentiful. White violets are in little demand, though occasionally required for wedding bouquets; though Swanley White is usually in the market the purple remains the popular flower.

Luizet heads the list in roses at present, its color always makes it a fashionable flower and fine blooms are coming in from New Jersey growers.

A good many poor Jacqs are in, but some unusually fine specimens of this rose were seen at Jas. A. Hammond's, they were grown by Dietz of Union Hill. That little corner in Jersey usually heads the procession in Jacqueminots. Mr. Hammond also displayed some blooms of Hoste fine enough for exhibition flowers, they were grown by Noe of Madison. This rose appears to have obtained a firm hold on the trade now; at first some doubts were expressed on account of its color being neither white nor yellow, but we find that in many cases the creamy tinge of Hoste is preferred to a dead white.

Among carnations Wilder is always in demand, and would always bring a higher price (if good) than any other, simply because it is a favorite color. Buttercup is another of which one may say almost the same thing, but it is extremely scarce and has been all winter. Seems as if very few growers could succeed with it; we want a new yellow trade carnation.

Some fine blooms of Her Majesty held a prominent place in Brower's window this week; it is a long time since this rose has been on view in New York.

Cleverly forced wistaria decorated Thorley's window April 1st, rather a novelty, and a very graceful one. The flower racemes were large, but pure white instead of lilac in color.

President Jas. Dean was at the Philadelphia show, accompanied by some of his fine azaleas. A goodly number of New Yorkers attended the show; Siebrecht & Wadley exhibited orchids.

Augustus Bennett, late with Mr. Brown at Flatbush, will go to Milwaukee to take a position with Currie Bros.

Mr. Alfred Outram, representing B. S. Williams, of London, arrived in New York March 27, going from this city to Boston.

Seed trade is reported as extremely brisk, and the plant trade is opening well. There is always some delay when Easter is so late; it keeps Easter stuff about when the growers want to make room for other spring plants. As soon as Easter is over the plant auctions will begin. The hardy stuff sold at auction this spring has been, for the most part, extremely

good. A lot of good roses were sold at Elliott's April 1st.

Samuel Henshaw, who was among the buyers, is now engaged in landscape work. Speaking of aquatic plants, which Mr. Henshaw considers one of the coming features in landscape gardening, he alluded to the rampant growth of the Egyptian lotus. In arranging a lily pond he builds an impervious tank in the center for the lotus, so as to keep it within bounds, otherwise it would crowd everything else out of the water. In arranging a lotus tank no arrangement is made for an overflow, as the plants absorb the water too rapidly for it ever to become stagnant.

Siebrecht & Wadley have added to their city department a very large and handsome van for the transportation of plants. The arrangements for heating and ventilating are perfect and in it large decorative plants can be safely carried in the severest weather.

Baltimore.

For a wonder there was no ball or concert overhead at the last meeting of the club, but a band at a dime museum across the way was ably seconded by the peripatetic organ and piano from the street in supplying the customary amount of noise. Imagine the relief that was afforded by the announcement of the committee in charge of the subject that our next meeting would be held in quieter quarters. To be sure Baltimore Horticultural Hall has not been built yet, but these frequent movings will have the effect of making a permanent and satisfactory location seem the most desirable thing in the world to the members of the club, and when that point is reached the hall will not be far away.

The beautiful silver cup given as a special premium by Mrs. M. J. Thomas was on exhibition, and on motion was offered for the best 12 cut blooms of Chrysanthemum M. J. Thomas.

Two gold medals were on exhibition too, offered by Halliday Bros.; one for best 12 blooms any kind shown by professional florist, the other for best specimen plant, Japanese or Chinese, shown by amateurs.

The postponed election for secretary resulted in giving us Mr. J. J. Perry, the gentlemanly manager of the Florists' Exchange, as a recorder for a year.

Then the event of the evening took place, an event that, to judge from appearances, is not to stand alone, but be followed by others of the same kind, the election of eleven passive or associate members from the ranks of our most aristocratic citizens. Really when the scribe heard the list of names the vision of a stately horticultural hall did not seem one half so much of a dream as before, but drew so near that he could almost give a description of its exterior.

A committee was nominated by the chair to have entire charge of the chrysanthemum show, consisting of Messrs. I. H. Moss, Robt. Halliday, Jr., and F. G. Burger.

Quite a discussion followed the statement by one of the members that he had been taxed on a crop of carnations, and the general opinion of members seemed to be that taxes are very unjust and irregular hereabouts when it comes to assessing greenhouses and their contents.

After adjournment the next thing was the bowling alley for the bowlers, and but for one thing many others of the club. The one thing is the fact that the crowd hat congregates about the "Central," in the basement of which the alleys are situated, is about the toughest in town and the more staid and careful members of the club do not care to be seen among them.

Business is much the same as last week. Weather about two shades better. All eyes and coal piles are straining Easterwards. MACK.

Toronto.

I omitted to mention before that at the last meeting of the Association some remarkably good blooms of seedling carnations were shown by M. A. McPherson, gardener to Col. Sweny, Toronto, and by Mr. Geo. Hollis, gardener to Maj. Foster, Davenport. Mr. F. G. Foster, of Hamilton, highly complimented these gentlemen on their success in hybridizing.

Lycaste (or Maxillaria), Harrisonæ is a lovely orchid and deliciously scented. Mr. Geo. Vair has three or four plants blooming profusely now. In one corner of his orchid house is a large old Wistaria sinensis which is a sight to behold just now; there is not room for another raceme on it and it fills the air with a faint spring like odor.

The latest prize donated for competition at the chrysanthemum show is a gold medal. The secretary thinks that if he keeps the prize list back a short time longer two or three diamond pins might be offered; however the proof goes in tomorrow.

The aquatic fever is spreading. Mr. Geo. Reeves, of Reservoir Park, has got it now and will fill a pond at one of the pumping stations with victorias, nymphæas and nelumbiums. The pond is heated by the condensed steam from the boilers. The Horticultural Gardens would make a big hit by converting the present rosary into a lily pond.

Why is not Cattleya chrysotoxa in the Dictionary of Gardening—not even in the supplement? Is it of very late introduction? E.

Flower Markets, As I See Them.

To my mind they are not necessary and have exercised an influence that is the reverse of beneficial to the trade.

From the very nature of things business done in such a place must be done quickly, even carelessly and very often ruinously to both buyer and seller. To the former because the articles have been handled "without gloves" and are bound to show the treatment received and also the want of proper surroundings and conditions to keep the flowers in the condition necessary to give satisfaction to the consumer; and to the latter, because as the first hours of the business day pass by and the stock remains unsold the temptation to make a sale becomes so great that price becomes a secondary consideration and eventually the remaining stock is sold, or rather sacrificed sooner than to take it back.

The result is that the tremendous difference in price works to the great disadvantage of those who handle good material carefully and at fair profit as against the peddler of the various varieties. In plain words, as between producer and retailer, no matter whether they deal directly or through commission men, the result is that the custom of dumping large quantities of flowers into the hands of irresponsible parties to be sold for what they will bring is a repetition of "killing the goose that laid the golden egg," for one is life to the other, and any action taken by the producer to interfere with the legitimate and respectable retailer acts as a boomerang and comes back to the door of the producer.

And the commission man is (if you like) a necessary evil, especially as the tendency to become specialists is increasing among the growers, and it is a natural tendency that should be encouraged as he acts as a collector and is in his way invaluable to both buyer and seller, so long as he acts honestly between the two.

There is no doubt that in cheapening the method of reaching the consumer the best interests of all who are legitimately connected with our profession is injured in direct ratio to the cheapness and consequent careless and crude methods adopted and it is the most injurious to those who should be most interested in upholding each other. No one will doubt that the setting exercises a wonderful influence on the appearance of the gem, in other words that a single flower sold in a well preserved condition, nicely displayed, though more costly, would be vastly more appreciated by those who love flowers for their true worth than an armful dumped carelessly at their feet.

Washington, D. C. J. R. FREEMAN.

Prophetic.

The poet must have had in mind the qualifications necessary for a successful commission man when he wrote:

> "A mind of broad and vigorous scope,
> A penetration quick and keen,
> An insight into things unseen,
> A liberal dower of faith and hope."

A.

Dodder on Fuchsias.

I have been studying a parasite growing on a fuchsia for some time, but have been unable to find its name or the best method of removing it, so I write you for advice. The parasite spoken of is a small salmon pink thread-like vine twining around the stem and leaves of the fuchsia —always from left to right with here and there great clusters of pure white five petaled blossoms and no leaves. On the side of the stem next the fuchsia small tooth-like appendages sink themselves into the bark of the fuchsia, causing a marked swelling. I have cut the parasite in several places, but it seems to have no injurious effect. Will you (or some of your readers) kindly tell me the name of this vine and how I can best destroy it?

HUGH C. MCLEAN.

[The parasite is some species of dodder (Cuscuta). It is easily enough gotten rid of, just pick off every bit of it and throw it away. It grows from seed in the ground like any other plant, and as soon as it gets up an inch or two and catches on to some nearby plant it fastens itself to the host by wart-like suckers and the part in the ground dies off, leaving the dodder vine in its true parasitic condition twining around the plants and subsisting on their juices much to their injury. Dodder is quite common out of doors in summer, especially in meadows. Probably there were some seeds of it in the soil you used to pot your fuchsia in.]

Hinze's, McGowan and Lamborn.

My Hinze's White are doing splendidly, grown in a light soil with rose house temperature. There has been no cropping and during the winter I doubt if the batch varied 25 a week. I have Lizzie McGowan and L. L. Lamborn in same house and they are almost a failure. Why? Do they need more heat or a heavier soil? JAS. FROST.

Greenville, O.

BURNS & RAYNOR,

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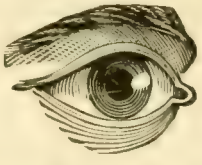
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that the trade has confidence in us. We do not spend our time **talking. We work.**

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE WHOLESALERS.

We take pleasure in presenting in this number of the FLORIST portraits of a few of the wholesale cut flower dealers.

Without the help of the commission man the distribution of the enormous quantities of flowers grown for the great Easter festival would be a difficult problem. Through his enterprise and energy the market for the producer has been immeasurably extended and the distant consumer obtains access to the best sources of supply on terms of equality with his metropolitan brother.

In a business where quickly perishable goods are handled the position of middleman is by no means an enviable one, for to find fault is an easy accomplishment, and to satisfy both growers and customers under all circumstances is out of the range of possibility, yet it will be generally admitted that the good services rendered and the influence exerted by the commission man in the marvelous development of the cut flower trade during the past 15 years can scarcely be overestimated.

The FLORIST extends an Easter greeting to the commission men, and hopes that there will be a full supply of all choice and desirable stock and a full demand for everything sent in; that the weather will be neither too hot nor too cold; that the expresses and the railroads will all be on time; that customers will all be satisfied, and that the return mails will bring back not grumbles but bank checks; so that we shall all be satisfied and the Easter of 1892 pass into history as a "hummer."

IN OUR last issue an error in the advertisement of Mr. J. C. Vaughan, on page 766, made him offer plants of the new chrysanthemum, Mrs. Louis Childs Madeira at $1 a dozen when the price should have been $1 each. A new chrysanthemum and a prize winner at $1 a dozen was so plainly an error that the blunder must have been apparent to all.

The "White Day Lily"

An Illinois reader takes me to task for this name, page 659. He writes: "I want to make a fuss about your term 'white day lily.' * * I presume you mean Funkia subcordata, the white plantain lily. I have a friend who thinks Latin names an abomination. He has an elegant summer home and spends yearly quite a sum for plants for his place. Some years ago while visiting east he saw what his host called a 'day lily,' so next spring he ordered of an eastern florist 25 day lilies. When they bloomed the tawny Hemerocallis fulva greeted him! He was disgusted, dug them up and quit that 'thief' of a florist. Next year he sent east again, to another florist, he did not want that tawny flower, but a true day lily. He got Hemerocallis flava, the yellow flowered one. So he d——d all florists alike. Then he came to me. I told him it was Funkia subcordata he wanted, and got it for him, so now he is happy."

He should have been specific. Had he said *white* day lily he would have got at first just what he wanted, for the white flowered funkias are the only plants under the sun known as white day lilies, and by this name they were known for many years before the name "plantain lilies" was invented. White day lily is the only common name used by Dr. Asa Gray for Funkia subcordata.

Aside from this, however, I am satisfied that "white plantain lily" is a better name. Perhaps there are some readers of the FLORIST who would like to know how this name originated. In June 1881 Mr. William Robinson, the greatest reformer in ornamental gardening who ever lived, himself wrote about the "White Day Lilies (Funkia)." But it is evident he disliked the name, for four weeks later we find him appealing to the public thus—"WANTED, AN ENGLISH NAME. Will any kind friend tell us how to christen harmoniously Funkia?" And further on he tells us that a well known bulb grower "in contrition for his having inflicted more barbarous names on the horticultural community than any other person" will give a full collection of the cultivated funkias to the person "who finds a happy and appropriate English name for Funkia." A fortnight later Mr. Edwin Jackson, of Llandegai, Wales, wrote: "Will the Plantain Lily suit this plant as a popular name? The plants bear a fair resemblance in habit of leafage and inflorescence to the familiar plantain of our fields and roadsides, Plantago major; while the Funkias are one branch of the very extensive lily family." To this Mr. Robinson replied: "A good name." "PLANTAIN LILIES. Henceforth we propose to use this as the English name of Funkia." And so it has been accepted generally. WM. FALCONER.

FRANK D. HUNTER,

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Wholesale Markets.

Cut Flowers.

BOSTON, April 5.

Roses, Bon Silene, Gontier, Niphetos	2.00@4.00
" Perle, Sunset	3.00@4.00
" Mermets, Brides, Waban	5.00@6.00
" Jacq	7.00@16.00
Carnations	2.00@2.50
Mignonette	1.00@2.00
Harrisii, Callas	8.00
Candidums	4.00@6.00
Valley	2.00@3.00
Tulips, Daffodils	4.00
Violets	.50@.75
Pansies	.25
Marguerites, Myosotis	1.00
Smilax	25.00
Adiantum	1.00@1.50
Heath, per bunch	.50
Primroses, per dozen bunches	1.00@1.50

NEW YORK, April 5.

Roses, Bon Silene	2.00
" Gontier, Perle, Sunset, Niphetos	2.00@3.00
" Mermet, Bride, Cusin, Watteville	3.00@6.00
" Hoste	3.00@10.00
" Bennett, Waban	2.00@4.00
" La France	5.00@8.00
" Albany	3.00@8.00
" Beauties	10.00@50.00
" Jacqs	5.00@15.00
" Luizet	50.00
" Brunner	25.00@35.00
" Bridesmaid	3.00@5.00
Smilax	20.00@25.00
Carnations	1.50@2.00
Mignonette	2.00@4.00
Narcissus Romans, Valley	2.00@3.00
Tulips, red	2.00@3.00
Tulips pink	4.00@5.00
Harrisii	4.00@6.00
Violets	35@.75
Adiantums	1.50
Lilac, per bunch	.50@1.00

PHILADELPHIA, April 5.

Roses, Brunners	50.00
" Baroness	50.00
" Laings, Magnas	30.00
" Beauties	30.00@35.00
" La France, Albany	6.00@8.00
" Mermets, Brides	6.00@8.00
" Jacqs	15.00
" Cusins, Watteville	5.00@6.00
" Perles, Niphetos, Gontiers	4.00
Valley	3.00@4.00
Carnations	1.50@2.25
Violets	.35@.50
Daffodils	3.50@4.00
Mignonette	1.00@3.00
Tulips	4.00@5.00
Harrisii	6.00@10.00
Romans	1.50@3.00
Smilax	25.00
Adiantums	1.00@1.50

CHICAGO, April 5.

EASTER PRICES.

Roses, Perle, Niphetos	5.00@6.00
" Bon Silenes	3.00@4.00
" Mermets, La France	6.00@8.00
" Bennetts, Dukes, Woottons	6.00@8.00
" Albany, Bride	6.00@9.00
" Am. Beauties	15.00@25.00
" Jacq	12.00@18.00
Carnations, long	2.00@2.50
" short	1.50@1.75
" long fancy	3.00@4.00
Romans, Valley Narcissus	3.00@5.00
Candidum, short	4.00@6.00
" long	6.00@8.00
Harrisii	18.00@20.00
Callas	15.00
Violets, Adiantum	1.00@1.50
Smilax	25.00@28.00
Bouvardia	1.00@2.00
Heliotrope	1.00@1.50

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LILIUM CANDIDUM, - - $6.00 to $8.00 per 100.
LILIUM LONGIFLORUM, - 12.00 to 18.00 "
MERMETS and BRIDES, - 10.00 to 12.00 "
LONG STEMMED CARNATIONS, Grace Wilder, Mrs. Fisher, Florence and others, - - - $4.00 per 100.

QUALITY STRICTLY FIRST-CLASS.

EASTER LILIES.

Longiflorum, Harrisii, Candidum, Callas, and other Bulbous stock.

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Extra fine quality. Grown specially for our house. All other varieties furnished at reasonable prices, which will be furnished on application.

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CUT FLOWERS IN SEASON,
At Retail and Wholesale
And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist. Send for Catalogue.
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BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
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The Seed Trade

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

WASHINGTON.—Simon W. Sanders, of Wilmington, N. C., was in the city recently to appear as defendant in a case before the United States Circuit Court, wherein the constitutionality of the new seed law in North Carolina was to be determined. The case was postponed until the Federal Court meets next May.

News Notes.

ONEONTA, N. Y.—B. Ackley is building a new house, 60x19 for roses.

ALTON, ILL.—The greenhouses of F. W. Doepke were recently destroyed by fire. Loss total. Cause unknown.

WHIPPANY, N. J.—W. I. Wilson is preparing to build a greenhouse 20x100, with cold frames attached. He will grow violets and carnations.

MINNEAPOLIS, MINN.—The Minneapolis Floral Co. has opened a floral store at 40 Fifth street S. under the management of Robert Tomlin.

NILES, MICH.—The Michigan Central Railroad will soon build two greenhouses here, to be devoted to the growing of plants for the decoration of station grounds along the line.

SAN FRANCISCO.—A new feature at the spring show of the California State Floral Society will be an exhibition of song birds, it being held that flowers and song birds belong together in spring.

Treatment of Portia Carnation.

Will some carnation grower please inform me through the FLORIST whether there is any special treatment whereby I can increase the size of the flowers of Portia, as mine are growing so very small now? When I asked the man I bought the plants of he said it is their nature, and another grower told me the reason is because I have them growing on raised benches, that they should be grown in solid beds. L. T.

SECRETARIES, when mailing premium lists, should not fail to send a copy to every other trade organization. The list in our new directory gives the names and addresses that you want.

G. J. MOFFATT,
Manufacturer of
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Seed Bags and Catalogue Envelopes.
NEW HAVEN. CONN.
Mention American Florist.

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PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
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ORDERS
WE BOOK NOW:
ROSES, PALMS, AZALEAS, CLEMATIS, RHODODENDRON, LAURUS TINUS, LAURUS NOBILIS, etc.
Roman and Dutch Hyacinths, Paper whites, Daffodils and other Narcissus, Tulips, Freesia, Spirea, Crocus, Lilium,—Harrisii, Candidum, Longiflorum, Auratum, Calla, Lily of the Valley, etc.
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AUGUST RÖLKER & SONS,
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40 ACRES OF FRENCH BULBS IN CULTIVATION.
The most extensive cultivators in the South of France of
EARLY WHITE ROMAN HYACINTHS,
Lilium Candidum, Paper White Narcissus, Grandiflora, Double Roman, Incomparabilis, Aurantius double, Von Sion, Trumpet Major, Freesias, Allium, Anemones fulgens, A. Rosette, very early, and Cardinal's Hat, Amaryllis Vittata, Etc., Etc.
BENJAMIN RIMBAUD, Bulb Grower,
KNIGHT OF THE AGRICULTURAL MERIT, TOULON, VAR, FRANCE.
WILL SEND on demand THE LIST OF HIS PRICES for the aforesaid Bulbs, to be delivered free Toulon Railway Station, and also free from packing and carriage expenses on board TO NEW YORK.



Write for wholesale list.
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DUTCH BULBS.
JOHN BARTH BOS,
OVERVEEN, near Haarlem, HOLLAND.
ESTABLISHED 1868
Large grower of Hyacinths, Tulips, Narcissus, Crocus, Lilies, etc.
Before ordering bulbs, write me for a catalogue.

MONEY IN GROWING MUSHROOMS
More money in them for less outlay than any other crop. Any one with a cellar or stable can raise them. Our Primer & Price-list tells the whole story. Free. Send for it. A brick of our celebrated English Mushroom Spawn mailed, post-paid, for 25c. JOHN GARDINER & CO., Seed Growers, Importers and Dealers, Philadelphia, Pa.

Gardiner's Seeds:—New Catalogue for 1892 now ready. Free. Send for it.

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Growers of CHINESE SACRED LILY,
HONG KONG.
Goods can be obtained at the following houses:
John L. Childs.....Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R. Pierson.....Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

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Offer HYACINTHS, TULIPS, DAFFODILS,

and all other Bulbs for Forcing, in fine quality at reasonable rates.

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AZALEAS, fine plants well budded.
15 to 18 in. in diameter, $1.50 to $2.00
18 to 24 in. in diameter, 2.00 to 3.50
Extra large plants, from 4.00 to 8.00

GENISTAS, fine plants well bloomed.
18 in. to 2 ft. high, 1½ ft. in diam. $1
18 in. to 2 ft. high, 2 ft. in diam. $1.50
Extra large specimens, 4½ to 6 ft. in diameter, $4.00 to $8.00.

RHODODENDRONS, fine plants.
18 in. high, 7 to 10 heads, $1.75.
18 in. to 2 ft. high, 10 to 15 heads, $2.50 to $3.50.
Extra fine large specimens, $3.50 to $4.00.

SEND AT ONCE AND SECURE THE BEST.

Pitcher & Manda,

UNITED STATES NURSERIES,

SHORT HILLS, N. J.

Mention American Florist.

ROOTED CUTTINGS.

ALTERNANTHERA P. Major and Aurea Nana, 50 cts. per 100.

AGERATUM White Cap and Cope's Pet, 50 cts. per 100, by mail prepaid.

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We are now booking orders at the following low prices:

	Per 100	Per 1000	Per 10,000	Per 50 000
LILIUM HARRISII, 4 to 5 inches circum	$ 2 50	$19 00	$17 00	$16 00
" 5 to 7 " "	3.25	25 00	24.00	22 00
" 7 to 9 " "	5.50	48 00	47.00	46 00
" 9 to 11 " "	10 00	90.00		
Guaranteed full measurement.				
LILIUM LONGIFLORUM, Bermuda grown, at same rates.			Per 1000	Per 1000
" CANDIDUM, fl. simples, strong	3 50	25 00		
ROMAN HYACINTHS, white, 4 inches circum	2 00	13.00	12.00	11.00
" " white, 4½ to 5½	3 00	20 00	19.00	18 00
" " white, 5 to 6	3 50	25 00	24.00	23 00
DOUBLE ROSY, rosy, tendre, selected	2 50	16 00	15 00	
ITALIAN, blush white, selected	2 75	19 00	18 00	
BLUE ROMAN, selected	2 75	18 00		
TOTUS ALBUS (Paper White) Narcissus, selected	1.25	7 00	6 50	
" " gr. fl. Narcissus selected	2 00	12 00	11.00	
DOUBLE ROMAN NARCISSUS, selected	1.50	10.00		
FREESIA REFRACTA ALBA, selected	1 25	8.00	7.50	
ORNITHOGALUM ARABICUM, selected	2.50	20 00		
TRUE BERLIN VALLEY PIPS		9 00	8 00	7 50

Half quantities at same rates.

HULSEBOSCH BROS., Bulb and Plant Growers,
OVERVEEN, near Haarlem, HOLLAND.

Address for the U. S., A. HULSEBOSCH, P. O. Box 3118, NEW YORK CITY.
Mention American Florist.

R. VAN DER SCHOOT & SON,

HILLEGOM, = HOLLAND,

Largest Growers of

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.

HEADQUARTERS FOR HIGH GRADE FORCING BULBS.

Wholesale Importers should write us for Prices.

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IMPORT PRICES NOW READY.

HARRISII, ROMANS, FREESIAS, VON SIONS, VALLEYS, ETC.

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6 and 8 North Clark Street, CHICAGO.



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JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS, AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

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ESTABLISHED 1878. SAN FRANCISCO, CAL.

ROMAN HYACINTHS, PAPER WHITES,

Lilium Harrisii, Berlin Pips Lily Valley, Tuberoses, Azalea Indica, etc.

PRICES QUOTED and ORDERS BOOKED FOR SUMMER AND FALL DELIVERY.

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OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

New, Rare and Beautiful Plants, ORCHIDS, ETC.

A collection of the most beautiful Fancy Caladiums ever offered; with the Newest and Rarest Hothouse and Greenhouse plants, carefully grown, and at low rates.

ORCHIDS—A very extensive collection: East Indian; Mexican; Central, South American, etc

Hardy Perennials, Roses, Clematis, Pæonies, Phloxes, etc

New and Rare Standard Fruits; Rare and Beautiful Trees and Shrubs, Evergreens, etc.

Catalogues on application.

JOHN SAUL, Washington, D. C.

Chester County Carnation Society.

The regular monthly meeting, April 2, was well attended, several new growers being present. The table was graced with a handsome display of cut flowers. "L. L. Lamborn," from J. J. Styer, a sample of the variety for which he took first premium at the exhibition of Penna. Hort. Society last week. The secretary showed a sport of Buttercup resembling in general appearance "Sunrise," but a brighter yellow and quite fragrant, stems long and stiff. Edward Swayne showed fine sprays of Blanche Ferry sweet pea, cut from vines grown among his carnations. Seed sown in November and December.

"Red Spider" was discussed at some length; "Antipest" was recommended by those who had used it. Mr. Styer reported red spider very abundant in the fall, entirely destroyed by repeated and abundant spraying of cold water.

The secretary reported a presentation of binder and copy of Florists' Exchange and also of a copy of the new directory by the Am. Florist Co.

To overcome overproduction or a glut in the market it was favorably suggested to instruct consignees to donate surplus stock to city hospitals when practicable.

Edward Swayne gave a resume of the honors secured by the local growers at the recent exhibition of the Penna. Hort. Society, at which four first, one second, the Wentworth prize and a certificate of merit were bestowed on various members of the society. After a few witty remarks on the trials of an exhibitor he favored the society with the following "Ode" prepared by a member:

There are no flies upon the "Belt,"
Where grows the "Flower Divine;"
No moth nor rust corrupt its gloss,
Lord! How the buckles shine.

And Pennock, Swayne and Styer
Have fought a braver fight
Than the three Romans at the bridge
In harness for the right.

And all around the "Girdle"
Shall shouts and laughter be,
And smiling of fair women,
And strain of minstrelsy.

But over in —— —— ——,
Shall be cursing underbreath,
And weeping deep, and wailing loud,
And gnashing of false teeth.

Yes —— —— —— —— —— ——
And —— —— —— —— ——
With —— —— —— —— —— ——
And —— —— —— ——

P.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a young man, age 22 5 years experience as seedsman. References. H. B. ROEDER, Maywood P. O., Chicago.

SITUATION WANTED—By young Englishman, 7 years experience in florist store and nursery JOHN DAVIS, 910 St. Clair St., Cleveland, O.

SITUATION WANTED—In florist store, by lady who has 9 years experience in floral business. Address EMMA, care American Florist.

SITUATION WANTED By young man, age 22, in place where roses are principally grown; 5 years experience KENT, care American Florist.

SITUATION WANTED By a young man; good plantsman; single. Private or commercial Would like posit on on the west. Address JOHN MCCORMICK, 242 E 82nd St., New York.

SITUATION WANTED—By a first class competent single florist and gardener. Full particulars in answer must be given. Address W K., care Rud Krueger, 339 Poplar St., Philadelphia, Pa

SITUATION WANTED By a good all round florist as foreman, age 35 married; competent and experienced grower for catalogue trade; good propagator and cut flower grower. JOHN P RING, 212 West 4th street Williamsport, Pa.

SITUATION WANTED—In private place, by young man. American; understands the business in all its branches, orchids a specialty. The best of testimonials for honesty, sobriety and capability. W H, 315 Marshall street, Philadelphia, Pa.

SITUATION WANTED—As manager of a large commercial place, thoroughly versed in growing roses, carnations, violets and the forcing of all kinds of bulbs, also the growing of all kinds of bedding and decorative plants. 22 years experience in England and America, good wages wanted: references. Address FLORIST, 127 N. Clark St., Chicago.

WANTED—A young competent florist for retail store: must furnish A 1 references. H. F. HALLE, 548 West Madison St., Chicago.

WANTED—A young man with some experience in greenhouse work, state experience and wages expected to W. W. COLES, Kokomo, Ind.

WANTED—May 1st, experienced rose grower. Married man with small family preferred. Address M. care Welch Bros., 165 Tremont St., Boston.

WANTED—A practical florist looking for a good location for business, proof profits over $100 per month, home trade, should address TWIN CITIES, care American Florist.

WANTED—Man with knowledge of foliage plants to work in palm houses on commercial place, $10 per week. Address JOHN BURTON, Chestnut Hill, Philadelphia.

WANTED—Young man as assistant for all kinds of greenhouse work, German preferred, steady job for right man, wages $15 a month and board, salary will be increased according to ability. O. R. DEMMLER, Eau Claire, Wis.

WANTED—At once, German, married, no children, wife to assist in housework in family of 2, must come well recommended, state age, price per month with board. M. ROSCOE SAUNDERS, Aurora, Ill.

WANTED—AT ONCE A capable grower of stock for catalogue trade and forcing all kinds of bulbs. Good wages for good work. No other need apply. Must come soon HARRY CHAAPEL, Williamsport, Pa.

WANTED—A practical florist; must understand growing cut flowers, specially roses and carnations; also making up designs. Single man—German preferred. Wages $25 per month, with board. Address OTTO BAUMAN, Manistee, Mich.

WANTED—Active man with capital to take part interest in rose, carnation and violet growing to sell at wholesale. Just about building new greenhouses for the business within street car connections on his own property. Address HORTUS, 31 Public Square, Room 7, Cleveland, O.

WANTED A good reliable rose, carnation and violet grower in commercial place, to take charge of a range of new houses None but a thoroughly competent and aggressive man of temperate habits need apply, and one who can furnish good recommendations. This will be a good and permanent place in a growing city and good climate. Give references and state where you have worked during the last 8 years. Address MERMET, care American Florist.

TO RENT Greenhouses with one acre of land. For particulars apply to SARAH W. STORY, Brighton, Mass.

FOR SALE—At a bargain, a florist's business in a thriving city near St Paul. Proof profits for 1891 over $1,300. For particulars address SELLER, care American Florist.

FOR SALE Lot 70x170 feet, with 8 room house, plant of four greenhouses, with good spring stock, fine local trade. If combined with nursery a splendid opening. Less than 7 miles from heart of Chicago. Address Box 543, Austin, Ill.

FOR SALE—To close out business, four of Hitchings' greenhouse boilers, two No 15, one No. 16, one No. 18 together with 4 inch pipe and other fittings sufficient to heat 12 000 feet of glass, 16x12, double thick. Will sell the whole outfit for half the present cash prices. Persons about to build will find it to their interest to purchase part or all of this list at Highland Park, Ill. W. W BOYINGTON.

FOR SALE.

Nine Green Houses containing about 10,000 feet of glass, stocked with carnations and heated by steam. Also grapery 80 feet long, recently built; about 30 acres of choice land, abundance of fruit of all kinds, large commodious house containing 15 rooms, including bath room, a new barn and necessary out-buildings, within 5 miles of Philadelphia and one mile from station. Will be sold on account of ill-health. Address I. LARKIN, Toughkenamon, Chester Co., Pa.

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AND

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— OF —

Lilies, Hydrangeas, Palms, Etc.

WEDNESDAY, APRIL 13,

— AT —

33 Boylston St., Boston, Mass.

EDWARD HATCH, Auctioneer.

Chrysanthemums.

SPECIAL FOR THIS WEEK.

V. H. HALLOCK	per 100 $7.00; per doz.	$1 00
ETOILE DE LYON	"	1.50
VIVIAND-MOREL	"	2 00
GEO. W. CHILDS	each	1.50
MRS. LOUIS CHILDS MADEIRA	"	1.00
W. A. MANDA (Yellow O. Plume)	"	1 00
MRS. GOV. FIFER (N. Smith)	"	1 00
MRS. JEROME JONES (Vaughan)	"	1.00
OLGA, pink (Vaughan)	"	1.00

$6 50 worth of any novelties listed at $1 00 each or over, for $5 00 net.

J. C. VAUGHAN, CHICAGO.

Chrysanthemums.

ROOTED CUTTINGS, $2.00 per 100: E. G. Hill, Lincoln, Kioto, L. Canning, Mrs. A. Hardy, Belle Hickey, L. Bird, Mrs. Fottler. $3.00 per 100 in 2-inch pots.

C. E. WELD, Roslindale, Boston, Mass.

CHOICE

Chrysanthemum Seed.

Saved from selected prize varieties. Price, trade packets, 25 cts. postpaid.

WILLIAM G. McTEAR, Princeton, N. J.

POTTER PALMER

The largest and best late white Chrysanthemum. Ivory and Domination, the best early whites V. H. Hallock, White Cap; H. E. Widener, E G. Hill and all of last years novelties. Will exchange for young stock of geraniums, Coleus, Heliotropes and roses.

R. E. SEALY,
VIOLET RANGE,
PEARSALLS, NEW YORK.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Orchids.

Established and Fresh Imported—Specially Cattleyas; very useful for cut flowers, at greatly reduced prices.

Best quality of Orchid Peat. Write for price list.

FREDERICK MAU,
P. O. Box 322. SOUTH ORANGE, N. J.

To the readers of the AMERICAN FLORIST:

By acknowledging that you saw this in the AMERICAN FLORIST I will for the next two weeks from the date of this paper, send you for $5.00, 1000 Rooted Coleus Cuttings of at least 25 kinds; the selection of sorts to remain with us. No cull stock. Cash with order.

J. E. FELTHOUSEN, Florist, Schenectady, N. Y.

CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "DORINDA," a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

R. T. LOMBARD,
WAYLAND, MASS.

FIRE YOUR ORDERS IN FOR AURORA

And other stock. I have the cleanest, healthiest cuttings I have ever had, mostly plants established in soil, at the same price as rooted cuttings in sand.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

PURITAN.
NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:
Rooted Cuttings.....$8 per 100; $70 per 1000
From 2¼-inch pots, $12 per 100; $100 per 1000.

Send for catalogue with full description of this and other varieties.

WOOD BROTHERS, Fishkill, N. Y.

50,000
ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.

Also an unlimited quantity of pips of the above varieties. Send for price list.

JOSEPH RENARD, Unionville, Chester Co., Pa.

50,000 ROOTED CUTTINGS
CARNATIONS

Standard Varieties and Novelties.
Send for Price List.

WM. SWAYNE,
P. O. Box 226. **KENNETT SQUARE, PA.**

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN,** besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

WHY NOT GROW THE BEST?
CARNATIONS,

VERBENAS, DAHLIAS, CHRYSANTHEMUMS, HYDRANGEAS, COLEUS, ETC.

Illustrated catalogue of rooted cuttings and plants mailed on application.

26 Floral Ave. **VICK & HILL, Rochester, N. Y.**

The beautiful PINK CARNATION NELLIE LEWIS our Specialty.

CARNATIONS.

Send for trade list of ROOTED CUTTINGS.

J. J. STYER, CONCORDVILLE, PA

Mention the AMERICAN FLORIST when writing advertisers on this page.

ROOTED CUTTINGS.

GET MY LAST OF THE SEASON'S PRICES. ‡‡‡‡ A GENERAL ASSORTMENT FOR APRIL DELIVERY.

CARNATIONS AND COLEUS.

LANCASTER BEAUTY VERBENA, a fine novelty, $2.00 per 100. Also a limited stock of Mammoth and other best sorts mixed.
SMILAX—All sold until May, prices 75 cents per 100, or $6.00 per 1000.
PANSIES—In bud and bloom, April 20th and later, at $15.00 per 1000. Almost every florist knows how good the strain is.
FRENCH CANNAS—A choice assortment, my selection, $5.00 per 100. Emile Leclaire, $3.50 per 100.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

CARNATIONS.
Finest NOVELTIES of the year, and best Commercial varieties.

COLEUS. Best assortment in the country. All the good Bedders.

"JOHN RALPH." The new Fancy Coleus is a gem. Fine color and foliage. Pot plants, 6 for $1.

GET MY LIST BEFORE YOU PURCHASE.

ALEX. McBRIDE, Alplaus, N. Y.

—— ROOTED CUTTINGS ONLY. ——

ROOTED CUTTINGS.

CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.

GLADIOLUS SHAKESPEARE,

In 5-in. pots ready to bloom, $2 per doz.

CARNATION HECTOR.

Fine blooming plants, 5-in. $3 per doz.

CARNATION PORTIA.

Fine blooming plants, 5-in. $2.50 per doz.

CASH WITH ORDER.

THE COTTAGE GARDEN,
EAST MORICHES, NEW YORK

30,000 ROOTED CUTTINGS.

CARNATIONS

NOW READY.

Send for Price List.

I. LARKIN,
TOUGHKENAMON, CHESTER CO., PA.

Rooted Carnations.

	Per 1000	Per 100
HINZE'S WHITE	$10 00	$1 25
PORTIA	12 50	1 50
GRACE WILDER	12 50	1 50
SILVER SPRAY	12 50	1.50
LAMBORN	15.00	1.75

Cuttings put in Jan. 1, on Feb. 8 **99 per cent.** were well rooted.

DE WITT BROS.,
Cash with order. **BRISTOL, PA.**

ROOTED CUTTINGS

COLEUS. 30,000 in sand, well rooted, ready to ship on receipt of your order: Verschaffelti, Golden Verschaffelti, Golden Bedder and nine other kinds, 75 cents per 100; $6.00 per 1000.

MUMS. J. Thorpe Mrs. Hardy, Ada Spaulding, L. B. Ehmer, L. Canning, Elaine, Georgeous, Puritan, Kioto, Marvel, Mme. Lean, L. B. Bird, Excellent, Mrs. Fottler, E. G. Hill. 100 rooted cuttings of these varieties, equal quantity of each, $1 35 by mail.

CASH OR C. O. D.

SEND FOR LIST.

S. B. FIELD, Roselle, N. J.

ADIANTUM.

We offer a mixed lot of 200 Adiantum cuneatum, Gracillimum, and similar sorts, 4-inch pots, hungry for a shift, healthy, at $8.00 per 100.

J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

AURORA.

Winner of the Ladenburg Cup for best pink

CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

Send for general price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

Mention American Florist.

CARNATIONS.
FISHER AND HINZE.

From Flats, $1.35 per hundred.

From Cutting Bench, $1.10 per hundred.

FREE BY MAIL.

GOVE BROS., Biddeford, Me.

Mention American Florist

DO YOU GROW
CARNATIONS?

We have Ben Hur, Golden Triumph, Puritan, Aurora, Pearl, Grace Darling, Silver Spray, Tidal Wave, Mrs Fisher, Lizzie McGowan, Daybreak, Nancy Hanks and seventy other varieties. Send for trade list.

GEO. HANCOCK. Grand Haven, Mich.

CARNATIONS
ROOTED CUTTINGS.

Nellie Lewis	$2 00 per 100,	$15 00 per 1000	
Mrs. Fisher	1.00 "	9 00 "	
Wm Swayne	1.00 "	9.00 "	
Portia	1 00 "	9 00 "	
Garfield	1.00 "	9.00 "	
Fred Creighton	1 50 "		

FRED B LEWIS, Lockport, N. Y.

CARNATIONS.

Ten leading varieties, $1.00 per hundred; $8.00 per thousand.

Address THOS. A. McBETH & CO., Springfield, O.

VIOLETS.

Runners healthy, and well rooted Marie Louise, per thousand, $5.00.

M. ROSCOE SANUDERS, S. 4th St., Aurora, Ill.

Eel Worms.

The article in your issue of March 10 regarding eel worms in roses no doubt has caused many a florist to think of the great losses sustained through this pest. It seems strange, that although houses upon houses of roses had been planted only to be afterwards pulled up and thrown in the rubbish pile, none of our eastern rose growers had the matter long ago more thoroughly investigated.

Mr. I. M. Harshberger of the University of Pa. some time ago had examined some of my roses and said that a worm called Heterodera radicola, invisible to the naked eye, was doing the mischief in the roots of our plants. He says it has been found on the roots of clematis, also on violets, coleus, bouvardias, vincas and other plants. They came originally from fresh manure. Severe frosts or lime would surely kill the worms in the soil, but when once in the roots nothing could be done to eradicate them. As this information entirely agrees with Mr. Byron D. Halsted's article, it is therefore all the more convincing that we have learned the right cause of club root on roses and other plants.

We have lately several times watered some affected plants with lime-water and they are already in a greatly improved condition. As the application of lime will have to be repeated there might also be danger in overdoing it in this direction.

Perhaps Mr. Halsted or some other reader of the FLORIST could tell how often plants could be watered with lime-water and how much air slacked lime could be used to one cubic yard of soil to destroy the worms and yet not be injurious to the plants. This would be of great benefit for the preparation of our soil for the coming season. Mr. I. M. Harshberger and Mr. Byron D. Halsted are certainly entitled to our sincerest thanks for their information in this matter. A. LUTZ.

ETHEL BROWNLOW.—Regarding this rose Mr. J. H. Dunlop, Toronto, writes: "We find it very free and profitable to force. It is one of the best keeping varieties I know of." He adds that the blooms sent us last week, and which we noticed in last issue, were cut two days before shipping.

LILIES FOR EASTER.

HARRISII, LONGIFLORUM, CANDIDUM, HYDRANGEAS, LATANIA BORBONICA, DRACAENA INDIVISA, GERANIUMS, ETC.

Send for Prices.

WILLIAM A. BOCK,
NORTH CAMBRIDGE, MASS.

Tuberous Begonias.

Single mixed, per 100 $2 50.
Separate colors, " 3.00.
READY NOW.
No double ones for the present.
BRAUER & RICHTER, McConnelsville, O.

ENGLISH IVY.
In 2½-inch pots, cheap
nd forp ice list of Bedding plants, etc.
JOS. H. CUNNINGHAM,
Delaware, Ohio.

ROSES. Varieties for Winter Forcing.

Extra Stock. Our Pots are fully up to Sizes Stated.

	2½-inch. Per 100	3½-inch. Per 1000	3½-inch. Per 100
AMERICAN BEAUTY, grandest forcing rose	$ 8.50	$80.00	$15.00
AUGUSTINE GUINOISEAU, the pearl pink White La France	8.00		
BON SILENE, carmine	5.00		
CATHERINE MERMET, pink, finest form	4.50	40.00	10.00
DUCHESS OF ALBANY, deep rose	5.50		
LA FRANCE, standard pink	4.50	40 00	10.00
MADAME HOSTE, creamy white	5.00		
MADAME P. GUILLOT, deep creamy petals reflexed and bordered deep pink	8.00		12.00
NIPHETOS, purest white	4.50	40.00	10.00
PAPA GONTIER, red, very fine	4.50	40 00	10 00
PERLE DES JARDINS, best yellow	4.51	42.50	10 00
SAFRANO, old favorite	4.50		
SOUVENIR DE WOOTTON, crimson	6.50	60 00	12 00
SUNSET, tawny yellow, shaded apricot	4.50	40.00	10 00
THE BRIDE, most popular white	4.50	40 00	10.00
W. F. BENNETT, deep red	8.00		
CLOTILDE SOUPERT	5.00		

BEDDING ROSES FOR SPRING PLANTING.

Agrippina, Bon Silene, Bride, Catherine Mermet, Comtesse La Barthe, Douglass, Devoniensis, Etoile de Lyon, Francisca Kruger, Grace Darling, Hermosa, Letty oles, Madame Bravy, Madame Falcot, Madame Margottin, Marie Guillot, La France, M. Van Houtte, Malmaison, E. Metz, The Queen, Niphetos, Safrano, Madame Welche, Marie Lambert, Polyantha sorts, and others.

BEDDING ROSES, from 2 inch pots, per 100, $4.00; our selection, per 1000, $35.00.

HARDY ROSES.

	Per 100
H. P. ROSES, assorted, 18 to 24 inches	$12.00
MOSS ROSES. Plenty of pure white	12.00
CLIMBING ROSES, 1 year, assorted	10 00

J. C. VAUGHAN, P. O. Box 688, CHICAGO.

My old time Specialty, the Rose MME. CUSIN, per 100 plants, $5.50.

Also THE BRIDE.....per 100 $5.50 | THE WABAN.....per 100 $ 8.00
MME. WATTEVILLE, " 5.50 | AMERICAN BEAUTY..... " 10.00

Also BRIDESMAID, SUPPLY LIMITED.

From 2-inch pots:	"This is the most beautiful pink rose known."	From 3½-inch pots.
12 plants.....$ 9 00	John N. May.	1 plant.....$ 1.50
50 plants..... 25 00	M. A. Hunt.	12 plants..... 15 00
100 plants..... 40.00		25 plants..... 25 00

SUNNYWOODS GREENHOUSES. FRANK L. MOORE, Chatham, New Jersey.

ROSES.

From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and Duchess of Albany, at $5.00 per 100; Meteor, at $6.00 per 100; American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

CHRYSANTHEMUMS,
leading varieties, 2½-inch pots, $5 per 100.

We are headquarters for the Meteor and Climbing Perle des Jardins.
ALL FINE HEALTHY STOCK.

JOHN HENDERSON CO.,
Flushing, N. Y.
Mention American Florist.

ROSES.

The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100. Waban, $6 00; Duchess of Albany, and Meteor, $5 00 per 100: La France, Bride, Sunset $5.00 per 100: Perle, Mermet, $4 50: Bennett, $8 00 per 100. Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

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ROSES AND PALMS A SPECIALTY.

E. G. HILL & CO.,
Wholesale Florists,
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ROSES.
AND OTHER SURPLUS STOCK.

	Per 100
Nice stock of Monthlies, all good varieties, 2½-inch, strong	$3.00
Clotilde Soupert, 2½-inch, strong	4.00
H P's, 1½-inch, strong,	3.50
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Lemon Verbena, 2½-inch	3.50
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Abutilon Eclipse	3.50
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Lantanas, 6 varieties strong	2.50
Moon Vine (Ipomœa grandiflora)	3 00
Ampelopsis Veitchii, 2½ inch	4.00

(our selection.)

THOS. A. McBETH & CO.,
SPRINGFIELD, O.
Mention American Florist

ROSES.

Strong, healthy plants of La France, Mermet, Bride and Watteville, 4-inch pots, $6.00 per 100; $40.00 per 1000. 2½-inch pots, $3.50 per 100; $30.00 per 1000.

CARNATIONS.

Hinze's White, Portia and Grace Wilder, from 2½-inch pots, $3.00 per 100. From flats, $2.00 per 100.

Heliotrope, $1.00 per 100; from 2½-inch pots, $3 00.
Coleus, from 2½ inch pots, selected, clean plants, $4.50, rooted cuttings 85c. per 100
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Ageratum, white and blue, Guaphalium lanatum, Sweet Alyssum, (75 cts. per 100; from 2½-inch pots, $1.50.

Orders booked and shipped in the order they are received.

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50,000 IPOMEA PANDURATA.

(New Hardy Day Blooming Moon Flower)

No 1 roots, large and strong, at $3 00 per 100 50 at 100 rate
" " $25 00 per 1000 500 at 1000 rate
GERANIUMS, named, 2½-in pots $4 00 per 100.
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FIRST-CLASS PLANTS,
$8.00 PER HUNDRED.
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ROSES.

A Chance to Triple your Money.

NOW READY. (Safe Arrival Guaranteed.)

50,000 ROSES, from 2-in. pots, $3 per 100; $30 per 1000.

Plant in 3 inch pots, and they will bring you from 10c to 15c each readily.

50,000 ROSES, from 3-in. pots, $5 per 100; $50 per 1000.

Plant in 4-inch pots and they sell readily from 20c to 25c each.

N. B.—Our stock is not forced nor are the plants long and drawn, but have an abundance of leaves and roots.

Varieties you can select from by the 100 or 1000, provided one or the other sorts is not sold:

Agrippina,
Archduke Charles,
Aline Sisley,
Archduchess M. Immaculata
Bon Silene,
Chas. Rovolli,
Comt. de Labarthe (D. de Brabrant),
Catherine Mermet,
Coquette de Lyon,
Hermosa,
Etoile de Lyon,
Gloire de Dijon,
Jules Finger,
La France,
Lady Washington,
Louis Phillipe,
Marie Guillot,
Malmaison,
Marie Van Houtte,
Miss Ethel Brownlow,
Mme. Caroline Kuster,
Marechal Niel,
Mme. de Watteville,
Mme. Pauline Labonte,
Mme. Brett,
Mme. Abel Carriere (M. Noisette),
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Mme Laur Marring, (pure new Bengal),
Ophelia,
Perle des Jardins,
Queens Scarlet,
Rubens,
Suzanne Blanchet,
Sombreuil,
The Bride,
Reine Olga,
Pink Daily,
Nic de Wautier,
Waban.

We also have **50,000 HYBRID ROSES,** strong, 2-inch pots in 25 best leading sorts, $5 per 100; $50 per 1000.

20,000 4-INCH POT ROSES, $10 to $20 per 100 according to variety and quality.

POT ROSES, in bud and bloom, $20 to $25 per 100.

Wholesale and Retail Catalogue upon application. Lists cheerfully priced and samples mailed if desired.

FOR EVERYTHING IN THE FLORIST LINE,

ADDRESS **NANZ & NEUNER,**

LOUISVILLE, KY.

ROSES.

As I must make room I will sell **50,000** of the best greenhouse and bedding Roses, in perfect condition; fine young plants from 2 and 2½ inch pots, at **$30 per 1000.**

The following varieties to select from:

Queens Scarlet
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Papa Gontier
Safrano
Niphetos
Solfaterre
Mignonette
Catherine Merment
Gloire de Dijon
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La France
Souv. de Victor Hugo
Paquerette
Souv. de Wootton
Marie Van Houtte
Pierre Guillot
Perle d'Or
Geo. Pernet
Etoile de Lyon
Luciole
Bon Silene
White Bon Silene
Hermosa
Comtesse de Labarthe
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Also the following Hybrids at **$40 per 1000:**

Anna de Diesbach
Giant des Battles
Coquette des Blanches
Queen of Queens
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I also have large plants of the above and other varieties in bud and bloom, in 4, 5 and 6-inch pots, at from $15.00 to $25.00 per 100.

The best and newest of Chrysanthemums, Carnations, and general greenhouse stock.

Safe arrival guaranteed of all plants shipped by Express.

Trade List mailed on application.

JACOB SCHULZ, Louisville, Ky.

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IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston), MASS.

200,000 ROSES.

STRONG, 2½-INCH POT PLANTS.

	Per 100		Per 100
Mme. Pierre Guillot	$5.00	Meteor	5.00
Waban	4.00	Crown Princess Victoria	5.00
Mme. Hoste	4.00	Mme. Elie Lambert	12.00
The Bride	4.00	Triumph de Pernet Pierre	12.00
Mermet	4.00	Climbing Perle des Jardins	10.00
Niphetos	4.00	Clotilde Soupert	4.00
Wootton	5.00	Papa Gontier	4.00
Perle des Jardins	5.00	J. B. Varrone	8.00

General Collection Everblooming Roses.

Aline Sisley,
Bon Silene,
Coquette de Lyon,
Cornelia Cook,
Countess Anna Thun,
Duchess de Brabant,
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Isabella Gray,
Joseph Metral,
La Pactole,
La Princess Vera,
Luciole,
La Marque,
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Souv. de Mme. Pernet,
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Souv. de Dr. Passot,
Souv. d'un Ami,
Solfaterre,
Souv. de Malmaison,
The Queen,
Therese Lambert,
Wm. Allen Richardson,

And other leading sorts, $4.00 per 100; $30.00 per 1000.

		Per 100
HYDRANGEAS,	Hortensis and Otaksa	$4.00
"	Stellata Fimbriata Alba	4.00
"	Ramis Pictis (Red Branched)	6.00
"	Paniculata Grandiflora, 4 to 6 in.	4.00
French Cannas in	12 fine varieties	12.00
" "	in 10 newer sorts	20.00
Begonia Countess	Louise Erdody	10.00
"	Louise Closson	8.00

NEW GERANIUMS, CHRYSANTHEMUMS, CARNATIONS AND A COMPLETE ASSORTMENT OF GREENHOUSE PLANTS AT LOWEST PRICES.

CATALOGUES FREE.

THE STORRS & HARRISON CO.,

PAINESVILLE, Lake Co., OHIO.

ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

FRANCES B. HAYES, AND OAKMONT,

HYBRID BOURBON. HYBRID REMONTANT.

Extra fine Selected Stock for the Trade.

JOHN N. MAY, Summit, N. J.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,

Edmund M. Wood & Co., NATICK, MASS.

ROSA CANINA STOCKS

SCHULTHEIS BROS.,

STEINFURTH, NAUHEIM, HESSE GER.

1000 extra choice, 30s, 1 year seedlings.
10,000 plants, extra choice 250s, 1 year seedlings.
1000 plants, 1st choice, straw thick, 12s, 1 yr. seedlings.
10,000 plants, 1st choice, straw thick, 115s, 1 yr. "
Cash with order. Send via Bremen Loyds.

SPECIAL OFFER. Per 100

Var. Rose Geraniums, 2½ inch	$ 5 00
Begonia Manicata aurea, 2½-inch	10 00
Begonia Rex, assorted	4.00
Bouvardia Elegans and Davisonii, root cuttings from flats	1.00

JOS. E. BONSALL & SON, Salem, O.

Mme. Pierre Guillot,

THE NEW PINK ROSE.

Orders booked now for delivery June 1st. Strong, selected stock, from 3-in. pots, at $8.00 per 100.

All the leading forcing Roses first-class stock only—can be obtained during the season of

M. A. HUNT, Terre Haute, Ind.

Please mention American Florist.

The Nursery Trade.

SAN JOSE, CAL.—A movement is on foot looking to the establishment of a fruit exchange.

AN ITEM in a daily paper informs us that a California rancher announces that he is growing olives grafted on the native willow.

WISCONSIN will spend $3,000 upon its horticultural exhibit at the World's Fair. Cranberry culture will be made specially prominent.

SACRAMENTO, CAL.—The Northern California Citrus Fair Association met here March 23 and adopted by-laws and elected delegates for the ensuing year. The association has been allotted space at the World's Fair and it will be filled by the members of the association from each of the counties represented.

A COLORADO paper prints the following adv. in its reading columns: "The young nurseryman grows more expensive as he grows older; and we must do more business to meet the additional expense. Call at our office in Kendall & Dawley's cigar store, and H. E. Bocker will book your orbers for nursery stock. Geo. J. Spear." Is this a good adv. for George or not?

NEWPORT, R. I.—At the last meeting of the Horticultural Society, Prof. H. J. Wheeler, chemist of the R. I Agricultural Station, read a very interesting paper entitled, "The recent investigations in relation to the nitrogen supply for plants." Prof. Wheeler narrated somewhat in detail the various and numerous experiments which have been made in endeavors to solve the mysteries connected with this phase of plant life. He stoutly maintained that the free nitrogen of the air is not absorbed or taken in through the leaves as has been held by some scientists, and sided with the majority who at present teach that the plant is fed with nitrogen through the work of bacteria at the roots.

For Spring Potting.

The best time to pot off small Palms and Foliage Plants is NOW, and they will then be ready to fill houses with for summer, after bedding plants are cleared. Cheap plants as follows:

	Per 100
Aralia Sieboldi, 2-inch pots	$10.00
Pandanus utilis, 2-inch pots	10.00
Areca lutescens, 2-inch pots	10.00
Dracæna terminalis, 2-inch pots	8.00
Latania borbonica, seed boxes	4.00
Cocos Weddelliana, seed boxes	8.00
Cocos plumosa, seed boxes	8.00
Asparagus plumosus, 3½-inch pots	40.00
Begonias, tuberous, single, finest flower, distinct colors	10.00
Begonias, tuberous, double, very fine.	20.00

(Begonias are started, but can be mailed for next three weeks)

JOHN H. LEY,
Tropical Nursery, Anacostia. WASHINGTON, D. C.
Mention American Florist.

ROOTED
VERBENA CUTTINGS.
FREE FROM RUST. WARRANTED CLEAN. A No. 1.
$3.00 per Thousand.
OIL CITY GREENHOUSES,
OIL CITY, PA.

Sherwood Hall Nurseries.
TIMOTHY HOPKINS,
MENLO PARK, San Mateo Co., CALIFORNIA.

STANDARD VARIETIES OF
CHRYSANTHEMUMS, ROSES, CARNATIONS, VIOLETS
By the 1,000 or 10,000.

WESTERN AND PACIFIC COAST TRADE PARTICULARLY SOLICITED.

Native Trees, Shrubs, Palms, Ferns, Etc.
Cut Flowers shipped to distant points.

SWEET PEA SEED by Pound or Ton. Contracts for Future Delivery.

CATALOGUE FREE. WHOLESALE PRICES ON DEMAND.

ESTAB'D 1872. PHILA. 30 TO NEW YORK 60 MILES. SHERWOOD NURSERIES INCORP. 1890

TREES { ORNAMENTAL / Fruit and Nut Bearing } DECIDUOUS AND EVERGREEN. Including the NEW CHESTNUT NUMBO.

HEDGING, FLOWERING SHRUBS AND VINES.
Grapes, Small Fruits in Variety, Asparagus, Etc.
Send for Trade List and Estimates before purchasing.
Mention this paper. **THE WM. H. MOON COMPANY, Morrisville, Bucks Co., Penna.**

NEW HARDY HERBACEOUS PAEONIES,
Including a **set of nine entirely new** sorts never before offered in this country, the whole comprising the best collection of this gorgeous flower ever offered here. All at low prices. Also 500,000 fine Hardy **Shrubs, Hedge Plants, Evergreens and Trees.** Also a complete collection of **Hardy Herbaceous Plants, Japan Iris, etc.** Catalogues are now ready, free.
B. M. WATSON, Old Colony Nurseries, **PLYMOUTH, MASS.**

P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, France.
A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada:
C. C. ABEL & CO., P. O. Box 920, New York.

NOTICE.
HARDY DOUBLE ENGLISH VIOLET.
This Violet is darker purple, and a much stronger fragrance than the Marie Louise. It is unsurpassed for borders and is perfectly hardy and the foliage a dark green. Price, $1 25 per dozen by mail prepaid; $8.00 per 100 by express. Special price on large lots. Plants ready April 15.
JOHN M. FREEMAN, JR.,
P. O. Box 26. WELLFLEET, MASS.

G. W. Miller & Son,
COLLECTORS, GROWERS AND DEALERS IN CURIOUS
CACTI PLANTS,
HAVANA, TEXAS.

CLEMATIS.
Strong heavy plants.....doz. $4.00
Lighter, equal to imported..... " 3.00
ROSES—H. P. 2 year, own roots, choice kinds.....per 100 $10.00
DAHLIAS—50 vars., whole roots, proved sorts.....per 100 $8.00
F. A. BALLER, Bloomington, Ill.

Canna Mme. Crozy.
The grandest novelty of the season. Unsurpassed as a decorative flowering plant for the flower garden or conservatory. Magnificent cut flower. Color dazzling vermilion bordered with gold. $8 00 per dozen; $50.00 per 100.
WM. TRICKER, Dongan Hills, (S. I.) N. Y.

Association Flora, Boskoop, Holland.
NOW ON HAND IN NEW YORK:
25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other
PLANTS FOR FORCING AND DECORATING.
Address **P. OUWERKERK,**
P. O. Box 1845, NEW YORK CITY
Catalogue on application.

OUR TRADE LIST IS NOW READY.
SURPLUS AS FOLLOWS: Climbing and Tea Roses, Clematis Jackmani and other large flowering sorts. Pyramidal Arbor-vitæ 2 to 5 feet. Shrubs, 2 to 4 feet large variety, strong clumps. 15,000 Houghton gooseberry 2 and 3 years.
SELOVER & ATWOOD,
Geneva, N. Y.

CYDONIA JAPONICA
For HEDGING. $5.00 per 100.
AZALEA AMŒNA
$3.00 per dozen. All kinds of
Ornamental Nursery Stock.
Send for Descriptive Catalogue and Wholesale List.
SAMUEL C. MOON, Morrisville, Bucks Co., Pa.

BLOOMINGTON (PHŒNIX) NURSERY.
600 ACRES. 13 GREENHOUSES.
TREES AND PLANTS
We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, Shrubs, Roses, Vines, Small FRUITS, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS. Priced Catalogue mailed free. Established 1852.
PHOENIX NURSERY COMPANY
Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.

Mention the AMERICAN FLORIST when writing advertisers on this page.

OUR CUT FLOWER BUSINESS

Demands all our growing capacity, we have therefore decided to close out our entire stock of plants this season. We start the ball rolling with the following. Speak quick if you want them.

We want to create a little diversion for Easter (April 17). To accomplish this we offer as follows in plants:

	Per 100
Genista pubescens, 5-inch in bloom	$ 25.00
Azaleas, 6-inch, in bloom	100.00
Fuchsias, 2 to 3 ft. high, 6-inch, in bloom	20.00
Hydrangeas, 6-inch, in bloom	20.00
Roses, Mme. Gabriel Luizet, 6-in. in bloom	25.00
" Gen. Jack, 6-inch, in bloom	25.00
" Mrs. Jno. Laing, 6-inch, in bloom	25.00
" Ulrich Brunner, 6-inch, in bloom	40.00
Lilium Harrisii, 4 to 10 blooms	50.00
Callas, 5 to 8 inch, in bloom	20.00
Cinerarias, 5-inch, in bloom	15.00
Carnations, 5-inch, various colors, in bloom	12.00

All the above in splendid condition for Easter sales.

In Cut Flowers we offer the following. Send in your orders and have them booked ahead.

Roses, American Beauty, A 1 stock.
" Bride.
" Mermet.
" Laing.
" Bennett.
" Brunner.
Callas.
Harrisii.
Carnations, white and red.
Marguerites, large blooming white, large elegant plants, 24 to 30 inches high, full of bud and bloom, just the thing for Easter work. Will pack light. $15.00 per 100.
Smilax, we have 1,500 strings to offer, medium length and stock A 1. If you are going to buy smilax in small or large quantities in the next thirty days don't fail to write to us, as we are in the market to sell.
☞ Bottom prices on any of the above.

ADIANTUM CAPILLUS VENERIS—
The coming Adiantum for the cut flower trade. The reasons why because it is
Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.
Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.
Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.
In buying see that you get the true variety, as it has many aliases. If you are short of room now we will book your order and ship any time up to May 15th. **Price, strong plants, $8.00 per 100.**

For bargains in Plants, see issue of March 24.

JOHN IRVINE CO.,
BAY CITY, MICH.
Mention American Florist

Verbenas
FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 4.00	$30.00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	3.00	25.00
" " Rooted Cuttings	1.00	8.00
Lemon Verbenas, 1 year old, strong	6.00	

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1.00	8.00
Feverfew (Little Gem), extra strong	2.00	15.00
Salvia splendens, extra strong	1.50	12.00
Moon Vine	2.00	
Ageratum, blue and white	1.25	10.00
Achyranthes Emersonii, etc	1 00	
Heliotrope, light and dark—no rust	1.50	12.00
Begonias, assorted, fine	2 00	
Gazenias, splendens and variegata	2.00	

WOOD BROTHERS,
FISHKILL, N. Y
Mention American Florist.

ARBOR VITÆ PYRAMIDALIS.
6 to 10 inch, 1 year $20 00 per 1000
Irish Juniper, 8 to 12 inch 1 year 20 00 per 1000
Wistaria Sinensis, 1 year 1.00 per 100
Correspondence solicited. Address
THOS. A. McBETH & CO., Springfield, O.



TUBEROUS BEGONIAS, Seeds and Bulbs.
Our own grown Superior Strains.
TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

TESTED SEEDS of VICTORIA REGIA and all other WATER LILIES.

FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

ROSE HILL NURSERIES. SIEBRECHT & WADLEY, New Rochelle, N. Y.

Roses. Orchids.
Mermets, Brides, Papa Gontier and Hoste, strong plants from 2-inch pots, $4.00 per hundred.

SEND STAMP FOR SPECIAL ORCHID BARGAINS.
WANTED—H. P. Roses and Asparagus Plumosus. Will exchange for above.
DAVID CLIFFE, Florist, Germantown, Philadelphia, Pa.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

—NO RUST OR MILDEW.—

Packed light, and satisfaction guaranteed. Send for circular.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

CYCAS REVOLUTA.

Second and last Importation of the Season of 50,000 lbs. Cycas revoluta, the only true long-leaved variety. Offered at these low prices for the next

60 Days.

FIRST-CLASS STOCK.
CHOICE SELECTED Stems, from 6 inches to 3½ ft., per 100 lbs. $10, f. o. b.
SPECIAL INDUCEMENTS ON LARGE LOTS.

SECOND-CLASS STOCK.
CHOICE but not selected stems, from 6 inches to 3½ ft., per 100 lbs. $6.50 f. o. b.
Special inducements on larger lots.

PRICES REDUCED FOR THE NEXT 60 DAYS ON ALL STOCK.

We also received choice Rhapis flabelliformis, Viburnum plicatum (Japan Snowball), Magnolias, Sciadopitys verticillata; fine Retinosporas, Maples, Tree Pæonias, Herbaceous Pæonias, Camellias, Lilium Auratum, Rubrum, Album, Longiflorum, etc., etc.

Send for Catalogue.

FELIX GONZALEZ & CO.,
303 to 312 Wayne St., SAN FRANCISCO, CAL.

THE NEW VIOLET
R. GARRETT,

Is a sport from Count Brazza, of a light blue color, very large and very double; a strong, healthy grower.

PLANTS READY APRIL 1st.

Parties in and west of Chicago will please leave their orders with **J. C. VAUGHAN**, box 688, **Chicago.**

Price, $12.00 per 100; $100 per 1000; $4.00 per dozen.

All orders must be accompanied by cash.

J. COOK,
318 N. Charles Street, BALTIMORE. MD.

VERBENAS.

My Verbenas are perfectly healthy and include the Mammoths. From 2½-inch pots, $2.50 per 100; $20.00 per 1000.

PANSIES AND OTHER STOCK.
Smilax, 2½-inch pots, $1.50 per 100; $15 00 per 1000.
Chrysanthemums, rooted cuttings, $2.00 per 100; $15.00 per 1000.
Ampelopsis Veitchii, 3-inch pots, $5.00 per 100.
Address **J. G. BURROW, Fishkill, N. Y.**

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

ROOTED CUTTINGS

	Per 100.
Petunias, double, white and variegated	$2 00
Heliotrope	1 00
Ageratum, dwarf, white and blue	1 00
German Ivy	1 00
Geraniums, finest varieties	2 00

SEEDLINGS.

Single Petunias, finest strain	50
Lobelia, 4 varieties	50
Salvia splendens	75
Centaurea Gymnocarpa	75
Geraniums, from 2½ in pots	3 00
Pansies, transplanted plants	2 00
Daisies, from seed bed, $3 per 1000.	
Hydrangeas, Hortensis, Thos. Hogg and Otaksa	$8.00 to 25 00

Cash with order. 10 cts. per 100 extra when shipped by mail.

JAMES HORAN, Florist,
BRIDGEPORT, CONN

CARNATION PLANTS.
From pots and flats. Cold grown stock. No carnation rust.

PANSIES	$1 co per 100
GERANIUMS, 2 inch	2.50 per 100
" 4-inch	8.00 per 100
FUCHSIAS, 2-inch	2.00 per 100
" 4-inch	7 00 per 100
BEGONIA METALLICA, 4-inch	1.50 a doz.
ALYSSUM COMPACTA, 2-inch	2.00 per 100
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	Per 100
Allamanda Hendersonii, 2½-inch pots,	$4.00
" " 4-inch pots,	8.00
Jasminum Grand Duke, 2½-in. pots,	4.00
" " " 4-inch pots,	10.00
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Cissus discolor, 2½-inch pots,	5.00
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The above named plants are strong, well-rooted and healthy.

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No. 606 Fourth Ave., LOUISVILLE, KY.
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Guiheneuf's Red-flowered Mignonette.

My mention of this new variety, page 709, brings me the following from a gentleman in Massachusetts:

"As you refer to Guiheneuf's red-flowered mignonette in last week's FLORIST, it may interest you to hear of my experience with the man. The editor of the *Garden* (London) last year referred pleasantly to this strain and I wrote to Guiheneuf for seed lists, which came at once, and which I now enclose to you. I then ordered some seeds from him, at the same time enclosing a P. O. order for $1.50, the amount they came to. But he never sent me the seed nor acknowledged the receipt of the money, nor of two other letters I have since written to him. Now I know the P. O. order was cashed in France. And I suppose any later letters were received by him or they would have been returned. It is well to keep a mental record of such transactions."

This case speaks for itself, it needs no comment from me. Redress is out of the question. At the same time that $1.50 may yet burn a big hole in the pocket of the recipient. Pay $2 and join the Florists' Protective Association of America, then lay your case before it.

WILLIAM FALCONER.

Is the Cold Storage of Valley a Secret?

Among the many valuable papers read before the various clubs of the country, and which from time to time have appeared in the columns of the AM. FLORIST, on the treatment of the different bulbs grown by florists, I have never seen one on the cold storage of valley. That it is so stored all readers of the FLORIST are aware, and any information on the subject would, I am sure, greatly benefit a large number of florists, especially the retail florists who grow their own stuff.

J. P. R.

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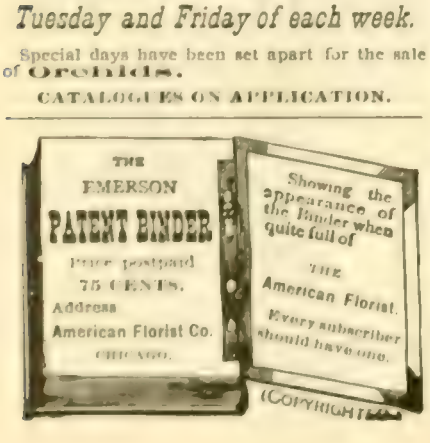
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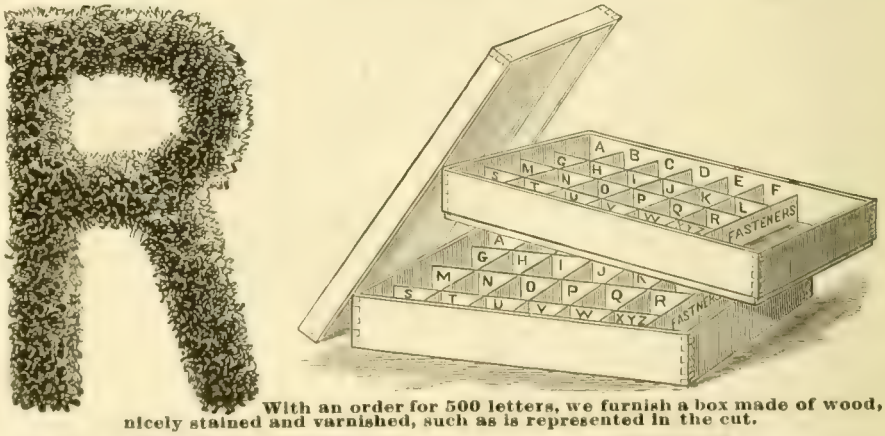
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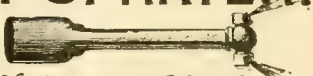
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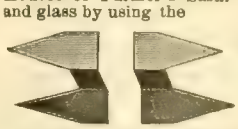
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L. C. L. JORDAN,
Asst. Sec'y of the Cooper Union, N. Y.

To the sufferer from gas tar on hot water pipes I would advise the following simple experiment: Cover the pipes with a heavy layer of tobacco stems and keep same well dampened. I think the stems will absorb the fumes from the tar and prove otherwise beneficial. By renewing the stems from time to time the effect of the tar will cease and the enormous labor of taking out the pipes and burning same can be saved. C. N.

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2½	"	"	4 00	7	"	"	3 50
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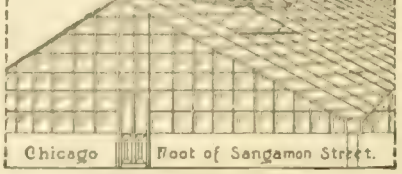
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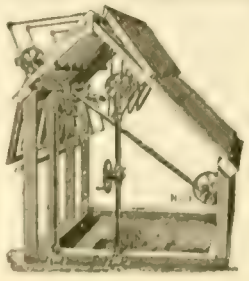
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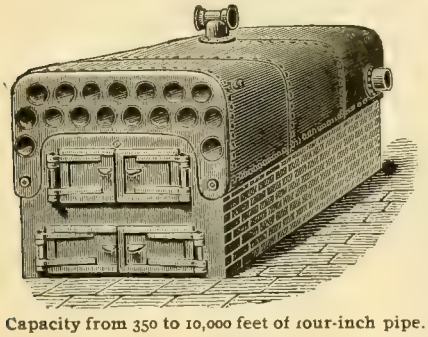
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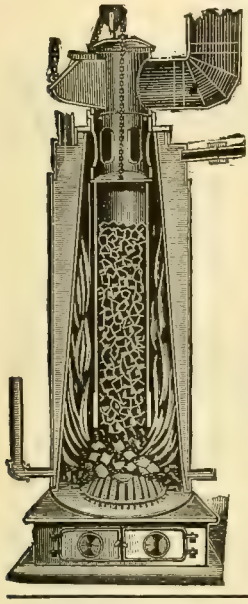
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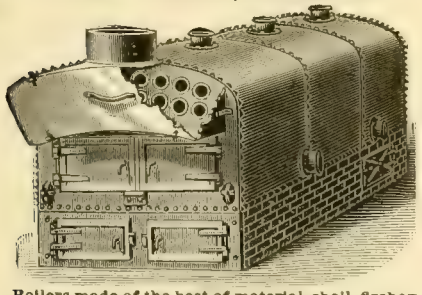
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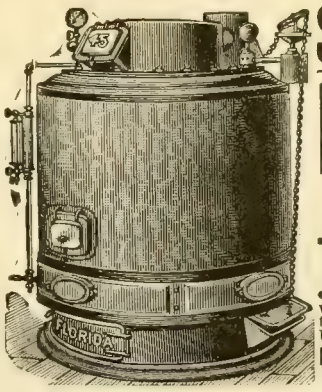


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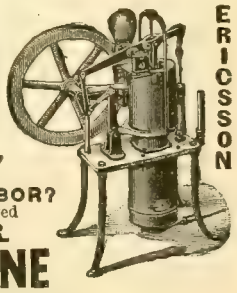
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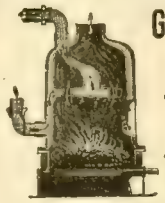
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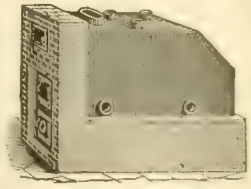


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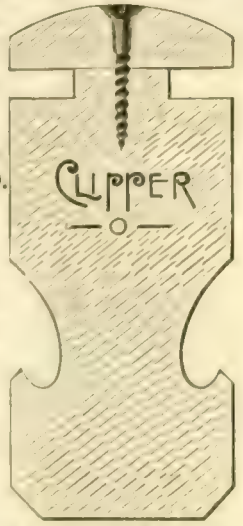
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JOHN G. ESLER, Sec'y F. H. A.,
Saddle River, N.J.

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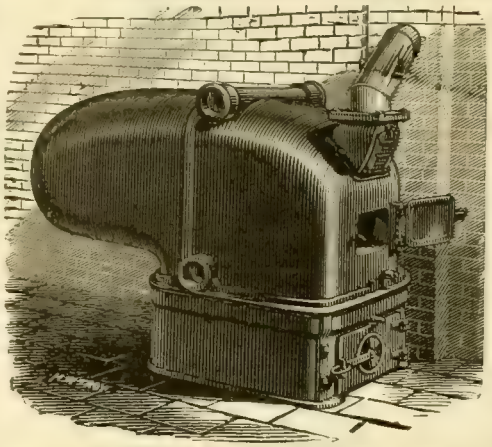
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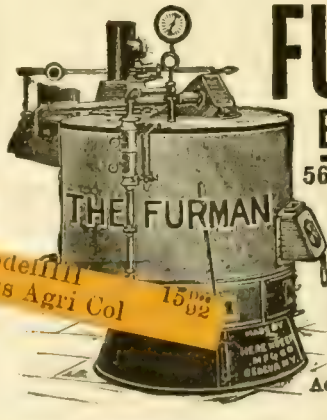
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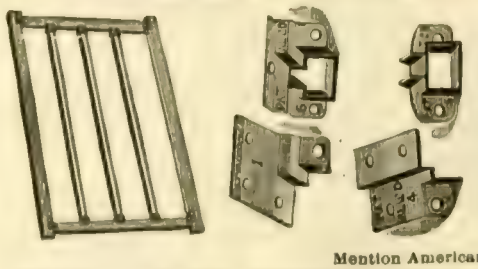
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ORDER a copy of our new directory now if you have not already done so.

WE HAVE in hand several valuable articles that we could not find space for in this issue.

WHEN this issue reaches our readers they will be in the midst of the rush of Easter business. May the supply be adequate, of good quality, and all be sold at satisfactory prices.

Decorative Plants and Floral Decorations.

BY THOMAS CARTLEDGE.

[*Read before the Florists' Club of Philadelphia, April 5, 1892.*]

The first place in the list of decorative plants must be conceded to the stately and aristocratic palms with their beautiful and graceful foliage, their great durability and easy arrangement into graceful groups. Without them no decoration seems complete. I therefore propose taking them up first, mentioning only some of the best and most useful varieties for the different styles of decorations we have to do in pursuance of our calling as decorative florists, asking your kind indulgence for any shortcomings or errors that may be found in this hurried sketch of so important a subject and hoping there may be something in it useful to the craft.

Areca lutescens I place first. It is well known to us all as an admirable plant either in small or large specimens. Tall and exceedingly graceful in habit; when well grown it stands handling well, is not easily broken and is very effective when arranged with latanias and other larger leaved species, or when in perfect condition showing well as a specimen plant for a corner or limited space, where only one or two plants can be placed to advantage. One of its best qualifications is, it may be grown to quite a large size in 8 or 10-inch pots, quite a consideration when it is understood the distance and height we sometimes have to carry our plants and the number we often want to crowd into our wagons. When well grown and thoroughly hardened it stands a reasonable amount of cold and it does fairly well as a house plant for vase or jardiniere if properly watered and occasionally washed or sprinkled, and gives satisfaction generally. We have sold more arecas than any other palm this winter, and with very few complaints from our customers.

Latania borbonica has all the good qualities of the areca, but it is entirely different in its character. Its large fan-shaped leaves fills in a gap in all our decorations, giving a most desirable effect and variety, so necessary, especially in all our larger decorations. Indispensable for house use and in my opinion the very best plant for the fashionable vase, China and other kinds, that have been used the past year or two for parlor and window adornment. Its low spreading leaves, its beautiful glossy green foliage, its ability to stand both heat and cold, drought and over-supply of water, makes it especially durable, and thus causes it to give general satisfaction—an everyday plant, reasonable in price, effective and beautiful in appearance, even if it is not so graceful in its smaller forms. The glut predicted for this palm by some of our growers has not reached this town yet, nor do I expect it to do so for some years to come, though I often wonder, when I see the large quantities growing, where they all go to. There are so many avenues open for its use. I could speak of its good qualities for out of doors but will find enough to say on indoor decorations to satisfy us all at this time.

Kentia Belmoreana and K. Forsteriana are among the toughest and most durable of our palms, of graceful and handsome appearance when well grown, not easily damaged by changes in the temperature or other causes, stands more gas and the hot dry air of our homes better than any other palm. It must become extremely popular when better known. Its large dark green and graceful leaves are most effective in group arrangements or as a single specimen. As a large plant in a tub or pot it is most useful, especially where only one plant is needed and in a position where it is desirable to see and move around it. I have seen it stated in some of our horticultural papers that the florists of London had proposed to boycott it on account of its good staying qualities, in houses doing so well under all circumstances, though a good plant for their patrons, not so good for the dealer and grower—something easier killed being considered better, an erroneous conclusion in my opinion.

Seaforthia elegans is away up as a useful decorative plant. It can't be beat in a large decoration, where its handsome curving leaves have a chance to show to advantage. They add to the much desired variety and break up the monotonous character of many decorations. Their large, easily broken leaves and susceptibility to cold make them unhandy for our wagons in wintry weather, as they soon become disfigured and useless, but I still consider they are a necessity, as they are so easily and quickly grown and cheap, paying well for themselves if we can only use them a few times. They quickly throw up new leaves to take the place of the old ones, but they get too large to be used in a very few years.

These remarks apply almost equally well to the Ptychosperma Alexandræ, only that it does not grow beyond us quite so fast, nor does it recover so quickly as the seaforthia.

The date palms, or phœnix, in their many species and varieties are most useful. They do not grow out of reach if kept in small pots and cramped for room, though they are not so pretty as some I have mentioned, but they will stand any amount of abuse—freezing, crowding into wagons, gas and heat. Their peculiarly formed and silvery foliage make them desirable even for variety. We have some plants that have been in use for 10 or 15 years and are quite presentable yet, doing their full share, especially in cold, bad weather.

Caryotas, I am pleased to see, are being grown again. A stately and peculiar

palm, its leaves attract immediate attention and add to the beauty of our decorations. Although it does not fill up much it is pleasing to those who are fond of plants and curious to the general public who see them occasionally.

The bamboo palm or rhapis are also of a tough character, dwarf growers, stand cold well and are not easily broken. They are excellent for a permanent decoration—that is to say, where plants are kept by the week or month, as they never give out if watered occasionally. Areca Verschafleltii is also a beautiful palm as a single specimen, especially for a conservatory or an extra nice decoration, but too tender and easily damaged to come into general use.

Cocos Weddeliana is the handsomest of all the small growing palms. It is graceful and elegant in all its forms, lasts well in the house, and just the thing for a fernery, table or mantel. It stands bad treatment better than many of the coarser species. It is indispensable and cheap enough to be used in large quantities.

I think the palms mentioned are about all that are necessary to equip a first class decorative establishment, though doubtless there are many others both beautiful and useful, but they have not come under my notice.

I will now briefly mention a few of the most useful plants outside of the palm family for decorative purposes, and a few of the more desirable flowering plants.

Dracæna fragrans has been one of our most popular plants the past two or three years. It stands handling well and is graceful and effective as a single specimen in a vase or a large pot, and it does well generally if watered carefully, as it will not stand being either too dry or too wet. *It has sold well this winter.*

Pandanus utilis and P. Veitchii are also much used, especially for vases. P. utilis, with care, will do well in any moderately heated room, and it is especially suitable for table decoration, and the beautiful variegation of Veitchii, coupled with its symmetrical habit, makes it a welcome addition to any group where variety and variegation are desirable.

The Norfolk Island Pine (Araucaria excelsa) is one of the most symmetrically graceful plants that we have—just what is wanted for mantel or table; holds its own well in the house, rather expensive yet, perhaps, but its durability and beauty makes it really one of the cheapest plants for the purpose indicated. I have seen plants of it that have been kept in a dwelling house all winter looking just as well and as bright as those kept in the greenhouse.

The Ficus elastica or Indian rubber plant has also become one of our staple plants, not only for use as a house plant, but in its larger form for decorations. Its beautiful large glossy dark green leaves making up for its general stiff appearance, and its ability to stand rough usage makes it a general favorite.

Other well known plants I may mention in this connection are some of the tall growing tree ferns, always showy and graceful. Aspidistra lurida—both green and variegated, called by some the "Iron plant," I suppose on account of its hardiness and willingness to stand hard knocks without showing any ill effects.

There are many beautiful flowering plants that are much used in connection with those that are grown only for their foliage, but I propose only to mention at this time a few of the more generally used ones, having already exceeded the limit that I placed on this paper when starting out to prepare it.

One of the most desirable and elegant flowering plants for this purpose is Acacia pubescens. It is unfortunately so scarce that we are seldom able to get it. There is no plant that I know that can take its place. Its graceful habit and color when in flower can not be equalled.

The poinsettia is a grand plant for early winter decoration. Its brilliant coloring when arranged with palms and some of our beautiful variegated plants is very effective and especially useful when there is not much bright in flower. It also has reasonable price and durability to recommend it, as it carries well and can be used several times if given reasonably careful handling.

Stevia is another good plant for fall and early winter. Useful because it can always be had in quantity in its season. It has a weedy look about it, however, that I never admired.

Chrysanthemums (fortunately for the rose grower their season is a short one) are hard to beat. They help us out grandly during the time they are with us, when all other flowering plants are scarce, as they can be used to good advantage massed in colors or separately or mixed though not too plentifully with our foliage plants. They are beautiful for a decoration in a church, with a background of graceful foliage, especially the beautiful white and yellow varieties as they are now grown, fine flowers, good clear colors and an abundance of bright clean foliage. I call to mind one occasion when decorating for a golden wedding—a *carte blanche* order—we had used up nearly all the flowers we had, such as roses, etc., when late in the afternoon our patron insisted on having one more room decorated that had been overlooked when the order was taken. I was in a quandary but happened to think of the large quantity of yellow chrysanthemums we had on hand. With a faint and weary heart fearing lest they would not be accepted (they were not as popular in those days as they are to-day) I suggested them and happily they were adopted as just the thing, and the result was a surprise. It was the most elegant room in the house—so appropriate to the occasion. We received many warm compliments, besides using a lot of plants that otherwise might be wasted. I have felt grateful to the chrysanthemum ever since, and I expect I always will be.

Azaleas come on in good time and make a bright show in our groups or masses. Elegant in every way for mantel, table or vase, their pure white and clean bright colors can not be excelled among the flowering plants grown. They have sold unusually well this winter and have given general satisfaction. We would advise plenty of water as they are hard drinkers when in full flower and when in the dry, heated rooms of dwelling houses.

Hydrangeas, Paris Daisies, now coming in along with the Harrisii lilies and callas, give us about all the flowering plants needed for the general run of floral decorations of which I had intended to speak. But I am sure this paper is long enough already, so will leave it to some future date, when I hope to have more time than I have had at my command for this occasion to speak to you on this very important subject.

Cocos Australis.

(*In some catalogues "Deplothemium Campestris".*)

This palm is one of the best for outdoor decoration, its bluish tinted graceful leaves making it very attractive. It needs to be kept in a cool house as it is impatient of heat and gets scale at once if kept in a hot house. In New Orleans there is a fine specimen out in the grounds of Dr. F. G. Richardson. If we mistake not, in some place south it is bearing seed. It is rather slow growing.

The plant figured is 20 years old. It is said to make a stem 25 feet in height. It is a native of Paraguay, according to the Encyclopædia of Nicholson.

Washington, D. C. WM. R. SMITH.

Our Telephone.

"Hello, central, give us Jackson Dawson at the Arnold Arboretum, Boston."

"Hello Dawson, is that you?"

"Yes, I began to think it was about time for the telephone to get to work again. Glad you've woke up."

"How about those roses you grafted a few weeks ago? How did they turn out?"

"Good. They are blooming now and are a batch of as pretty little plants as you would wish to see."

"It seems to us that the process might be of value to the FLORIST's readers. Can not you tell us about it?"

"Yes; I don't see why it isn't a good thing for florists. It is just eight weeks since I grafted those roses. That is, I grafted from 1st to 15th of January and have had them coming into flower in succession ever since March 1."

"What varieties do you use?"

"All the popular hybrids, Luizet, Rothschild, Magna Charta, any of them, they all do well. For stock I use the Rosa multiflora."

"Where do you get your multiflora stock?"

"Raise it from seed. It's no trouble at all. The seed from which these stocks were raised I sowed on the 12th of last April. So you see it is considerably less than a year from the time of sowing the seed till I have a handsome plant 15 to 18 inches high, in a 3 or 4-inch pot, with fine foliage and a first class bloom on it.

"On the approach of freezing weather I dug up the multifloras and heeled them in in a cold frame ready for use.

"For grafting I cut the plants off close down to the crown. I side grafted with cuttings having from one to three eyes, using no wax, simply tying them in with raffia. When this method of cutting the seedlings off close to the crown is followed I don't think there is the least chance of their suckering.

"As fast as the grafts were made I packed them away in damp moss in bundles of 50 in a close frame at a temperature of 50° to 55°. By the end of a week they had knit so they were ready for potting. I put them in 3-inch pots, then left them in a close frame for ten days, by which time lively root action had begun, and they were then brought into the house and grown on in the usual manner.

"The roots go to work at once. You ought to see the bundles of healthy roots on these little chaps and the breaks are just as strong as they would be on large plants.

"And why aren't they better for table decorations than cut blooms? They will keep very much longer and in far better shape in a warm room."

"You don't get a flower on every plant do you?"

"Out of this lot more than 50 per cent have set buds, but a good many of these were only single eye grafts. I believe that by carefully selecting the wood, using none but that which is strong and well ripened for the cuttings and making



SPECIMEN COCOS AUSTRALIS AT THE BOTANIC GARDEN, WASHINGTON, D. C.

two and three eye grafts, fully 90 per cent of blooming plants may be had.

"Bear in mind that this is the first year I have attempted it on a large scale. I have often advised others to try it, but they wouldn't do it. Now I have put in ten or eleven hundred grafts, and if they had been in 5-inch pots instead of threes the plants would have been still stronger. Judging from the interest in this subject already manifested by many gardeners, I believe it to be a question of but a few years when the majority of our growers will do their own grafting. Importers will be in the minimum and imported stock will cut but a small figure in our trade."

"Are you doing any hybridizing now?"

"Yes, I am at it all the time. Among others I made a cross between Rosa Wichuraiana and Jacqueminot last year, and the result is six little plants all different from each other. I am much interested to see what the flowers will be. The foliage on all of them is very handsome. I have just fertilized Rosa grandiflora with pollen from Mme. Gabriel Luizet. I find that I have better results with one pod inside the house than with a hundred outside. Whether insects got into them after I had done my work I don't know, but they were always unsatisfactory outside."

Sarracenias.

These interesting plants seem to be neglected by all but a few plant growers in this country, although they are a very handsome and interesting class of plants. As the taste for aquatic plants is on the increase these plants will be found very useful for the borders and sheltered nooks of the lily pond.

They are very interesting and ornamental plants for the greenhouse and many of the varieties, especially the hybrids of later introduction, are remarkable for the beauty of their curiously shaped flowers, which range through all the shades of red, yellow, crimson and white.

The leaves of the sarracenia seem, like those of the nepenthes, to have the power to secrete a fluid that is very attractive to all kinds of insects, and as the inside of the pitcher shaped leaves are lined with hairs pointing downwards it is impossible for an insect once enclosed to make its escape.

When grown in the greenhouse the soil best suited to them is composed of equal parts of fibrous peat and living sphagnum moss. The pots should be well drained. It is a good plan to stand the pots in pans of water during the growing season or else to plunge the pots in a bed of moss to keep the roots cool during the summer. During the growing season they want an abundant supply of water, but in winter very little will do them, though they must never be allowed to become dry or to feel the want of water. They do much better for a little shade during the summer.

S. Drummondii: This is one of the finest of all the varieties. The pitchers are from two to three feet high, slender at the base, and swelling upwards, of a light green color, the lid and throat mottled with crimson. The flowers are crimson.

S. flava: There are many types of this variety. The pitchers are about two feet high, slender at the base and widening upwards, forming a large open throat

with a broad lid. The entire leaf is bright green and the flower light yellow.

S. psittacina: This is a decumbent species. The pitchers are bright green with crimson veins. The head or hood which is formed by the top of the pitcher is bright red blotched with white. The flower is purple. It is a very distinct and interesting species.

S. rubra: A slender growing variety, growing from one to two feet high. It has bright green pitchers, the lid and throat small, striped with red veins. The flower is red and very sweet scented, having the odor of a violet.

S. variolaris: The pitchers of this species are about nine inches high, bright green in color and with a recurved top which makes them appear hooded. The upper part is mottled with creamy white. The flowers are a light yellow.

There are a number of garden hybrids of recent introduction in Europe and which are said to be a great improvement on the parents, having many entirely distinct forms and colors of pitchers and much larger and handsomer flowers than the older varieties. One of the hybrids, S. Popei, is, from the description, remarkable, having parti-colored flowers, the petals being deep crimson on the outside, having a border of yellow, the center being flushed rosy pink. This variety it is said was obtained by crossing S. flava with S. rubra. JAS. S. TAPLIN.

Maywood, N. J.



The Carnation and its Culture.

[A paper read before the Gardeners' and Florists' Club of Boston, by Mr. R. T. Lombard.]

I have often heard the remark made by those who have listened to essays read in this hall, that the subjects have been treated in a too general way, that the ordinary cultivator received less practical information than was expected. I hope I shall not err in the other direction, by going too much into detail and state facts and experiences already familiar to you all.

The carnation has been cultivated for centuries and under the care of man has steadily improved until it ranks as second in the plants we cultivate. Nature intended that this plant should be produced from seed, and the more rapid method of increase by cuttings is of a comparative recent date. However interesting its history may be to some, I do not propose to take your time to follow it from the wild flower of the fields to the beautiful varieties so recently exhibited in this building, but rather to treat it as it should be propagated and grown today for commercial purposes. The most favorable time to propagate is during the months of January and February, when lengthening days seem to give the plant fresh vigor. The parent plant should be healthy and in a state of active growth.

From such a plant take off the side shoots, well up from the base. These pips may be cut at or pulled from the joints. I have been unable to detect any difference in their striking root, whether they are cut or pulled. If a knife is used it should be sharp, the cut clean. The wood should be soft and tender. I take off about one half inch of the grass and am positive it is a benefit to do so. Your propagating bench should be in a house where the temperature has a range of not less than 40° nor more than 50°, with bottom heat 55° to 65°.

The sand after being made firm and compact (I use a brick for the purpose) should be one and one half inches deep and the cuttings put down ¾ inch and the sand pressed firmly about them; should be thoroughly wet and kept moist until taken from the sand. It makes no difference what kind of sand is used, if it has had proper treatment before being put in the bench. No sand should be used from a bank and put directly in the bench, for all such sand, without exposure to the light and air, is sour and a positive injury to cuttings. The best sand comes from the borders of ponds, or the banks of rivers, where it has had abundance of sun and air. If this cannot be obtained expose your sand for at least ten days, to these conditions. Put in fresh sand for every batch of cuttings. Never permit a draft of air to strike your cutting bench. Sunlight is less injurious than drafts of air. I am a believer in the north exposure system. Under these conditions in forty days you ought to root 95% of any variety except Wilder, Silver Spray and Buttercup, which require a much higher temperature—10°. These rooted cuttings should now be potted in thumb pots or put in flats in good soil. Place them on a bench where there is some bottom heat, give a night temperature of 50° and shade for a few days. They will be established in four weeks, when they should be placed in a cool house 35° to 40° at night with plenty of air, where they will harden off and have a brief rest, which all carnations should have. They may be put out side in cold frames about April 7th. They can be safely planted in field May 10th. A heavy frost, or even if the ground should freeze, they will not be injured and seem to like it. The carnation is half hardy and will live in field all winter if slightly protected. The plants should be set about one foot apart each way and pinched back as often as required. Rapid growing varieties, like Mrs. Fisher, Hector and Ferd. Mangold, should be topped as late as Aug. 20th. and those like Hinze's White and May Queen, not later than August 1st. No fixed rule can be laid down; the careful cultivator will soon be able to decide for himself when to stop pinching back.

The soil either in field or house to suit the carnation should be rich and as soft and smooth to the touch as an infant's cheek; a fibrous loam, well enriched, with either well rotted stable manure, at the rate of 12 cords to the acre, or commercial fertilizer at the rate of two tons per acre. They do equally as well on either. Sod land ploughed in April eight inches deep is the best. Fresh stable manure is injurious.

In April prepare your soil for your houses, using one-fourth manure, three-fourths sod or loam. Add to this one bushel of wood ashes to every two loads of loam. Fill your benches or beds in September, six inches deep (it will settle to five inches) and the soil should be just moist and so light that no trowel need be used when you do your planting. Your plants will succeed equally as well in solid beds or benches. Beds require less care and do not dry out so quickly in winter, which is very important. About September 20th you should begin to house your plants and this is the most important period in their life. Like the boy who leaves his happy home to seek his fortune in the great busy untried world he knows so little of, a step right or a step wrong, either makes a useful noble life or an existence of misery and ruin.

When you lift your plants the soil should be dry, so dry that when the fork is placed under the plant and it is lifted all the roots both small and large will be unbroken and very little if any loam remain on them. The object should be to save the roots and leave the soil in the field. It is a great mistake to suppose that a ball of soil is necessary. In planting, take the plant in the left hand, with the right make a broad shallow hole in the soil, spread the roots well, draw the soil over the roots and with both hands press the loam very firmly, the harder the better; when thus fixed in the soil the plant should be no deeper than it was in the field. If you do set it deeper, your plant will be very likely to die before January. This deep setting is the chief cause of plants dying out during the early winter. Stake and tie the plant at once if it will not stand erect. I have no patience with those who are so shiftless as to leave their plants grow wild and rot away, a kind of slow death. They were not intended for such a destiny. Water them thoroughly and syringe several times a day, if the sun shines, for about four days, by which time they will have thrown out new roots by the hundred seeking for water and food. The house should be shaded a week or two, and for this purpose I use clay or loam, taking about a quart of either, mixing it with about two gallons of water and throw upon the glass with a dipper; it is quickly done and the first rain takes it off clean. The plants should have a rich dressing of commercial fertilizer or bone black about Jan. 15, March 15 and May 1, and kept nicely staked and tied until May 1, when they may be permitted to take their own course. You should not forget that your plants have passed the summer under natural conditions; bright sunshine, dew, rain and an abundance of pure air; their rapid growth has shown you what they can do if treated right. Try and follow these conditions by giving abundance of air, an evening syringe for the first two weeks; leave ventilators open at night for a time after fires are started; open the house doors to create a draft; thus gradually get them acclimated to the new conditions. Always admit air when the outside temperature is above 32°. I am fully satisfied that carnations cannot be grown at a profit unless they are kept growing, and they cannot to any extent if the night temperature falls below 50°. I prefer 55° at night, and 70° to 75° during the day. If your house gets below 50° a cold sweat seems to gather on the plants and does them about as much good as a wet blanket on a man on a frosty morning. I know it is injurious for growing plants to go through this cold sweating process. More than one half the cause of carnations bursting their calyx is permitting the temperature to go so low that growth is suspended. If your plant is warm enough to work at night, the petals of the flowers will push out their natural length and in the morning will open without bursting, but if it lies dormant at night and no growth is made, as soon as the sun warms up the house the petals at once expand, the calyx bursts, the inner petals being short and half developed. Carnation foliage should be kept as dry as possible during Dec. and Jan.; at other times they enjoy a shower bath on bright sunny days. If you will treat your carnations in the manner described success is yours and a reasonable return may be expected. You may have disease called spot but early starting of fires generally pre-



LARGE FLOWERED PRIMULAS

vents it, or if it comes it is short lived after the fires are well under way. Green aphis will surely greet you, but a weekly smoke will prevent their increase. Red spider will not be seen if your houses are kept damp, and cut worms soon succumb to Dalmation Powder. If I were asked what varieties to grow, I should say try many kinds, discard those that do ill, hold fast to those that do well. No variety succeeds with every one, yet most any one can grow some varieties. I believe in the old saying, "Do not put all your eggs in one basket." As a rule I think the grower gets the best returns who grows the largest number of varieties. New varieties come, live their brief existence and pass away. Crimson King, DeGraw, La Purite, Snowdon and many more have come, filled their places well and gone. In a few years Grace Wilder, Anna Webb, and Century, with their lesser rivals, will be no more. New ones are coming rapidly to the front, some superior to the old sorts and others no improvement. Yet in these as in everything else merit will assert itself and the fittest will survive.

Those who are skillfully laboring to improve this beautiful and useful flower in producing seedlings at much labor and expense, are doing a good service, and if they sometimes make a mistake by sending out a poor one, we should not judge them harshly but remember that charity is the greatest of the Christian virtues and we should exercise its precepts.

Replying to questions from the audience, Mr. Lombard said that he got rid of the cut worm by using Dalmation powder. He stated that four years ago he had a house which contained 2,200 plants of carnations and 3,600 strings of smilax.

The cut worms got into it. He tried picking them off but found it made no impression upon their number. Tried Paris green; they revelled in it. Hellebore; they grew fat on it. He got not a hundred flowers from the house in four months. Had tried to catch the moths with a light, but they seemed to prefer darkness rather than light. Finally on the advice of a friend he tried the Dalmation powder. Sifted over the beds five pounds of powder the first evening; on the following morning found half a peck of cut worms. Used three pounds of powder the next night and was rewarded with a quart of the worms.

A few more small applications of the powder eradicated the worms completely.

Speaking of his success with various varieties, he said that Buttercup requires a firmer soil than he was able to supply.

Ohio will not do well in any soil. Lizzie McGowan with him did grandly up to Christmas, since then no good. Silver Spray comes only semi-double in his soil.

Proposes to give Puritan a good trial next winter. It will be a long time he said before we get anything better than Grace Wilder. If Grace Battles does as well as it promises, it will stand a good chance of superseding Wilder.

The Carnation Disease.

The new carnation disease, of which an able scientific description appeared in the AM. FLORIST, is to all appearances not as dangerous to carnations in general as it would seem. At least I tried to infect some of the older varieties with the rust and was so far unable to do so.

I noticed the disease first last fall, after housing the carnations, on some of the Fred Creightons, one of the newer varieties bought from the east last spring, which by the way is otherwise a very strong, fine grower. The lower leaves showed first those brown dots, which soon took the oblong shape till the plants were thus punctured up to the higher leaves on the flowering stems. A batch of Silver Spray standing near the Creightons soon caught the rust, but it did not make such headway as on the Creightons. To find whether other varieties would be susceptible to the disease I put some Garfields and Hinze's White close among the then badly overrun Creightons, but for the last two months they have flourished and fail to show any signs of the disease, standing unconcerned among their rust-ridden colleagues.

All my carnations are grown in pots for market sale, not for cut flowers, and therefore I look not only for a good flower, but also for a shapely and healthy plant. While raising some of the older best pot varieties in quantity, I make it a rule to try some of the newer varieties each year and if they don't come up to the requirements as a pot plant, or if they be troublesome like the above two varieties, I simply leave them off the list. For the cut flower grower it will be different, however, especially as to the well being of the renowned Silver Spray, and there the old ounce of prevention is worth many times it weight of cure.

I will state here that I did not try any remedies, but have no doubt that several of those recommended will prove efficient and may yet eradicate the disease before it gets a stronger foothold.

St. Louis, Mo. ANDREW MEYER.

The Lamborn Carnation.

During the fall our Lamborn carnations bloomed splendidly and we had formed a very high opinion of it, but after the dull winter months set in they did not fully open their blossoms, in fact many of them did not more than half open and they then gradually faded off. Has any one else had the same experience and is there any remedy? They were grown in a night temperature of 45° to 50°, day from 55° to 60°. B.

CARNATION EDNA CRAIG.—This carnation, which won the silver cup at Philadelphia, was one of a batch purchased by E. G. Hill & Co. from Mr. Fred Dorner in 1889 for $500. Regarding this batch of seedlings Mr. Hill says: "The varieties which led me to purchase the lot, and from which I expected a return on the whole investment, were all disappointing, while some of the least promising and those that had not flowered at the time, have since made Mr. Dorner's name prominent as a raiser of new carnations. The variety Edna Craig was the least promising of the lot, but liking its growth and color it was given a trial, and each year it improved on the development of the year previous."

Large Flowered Primulas.

What is the standard size of primula flowers? is a query propounded by Mr. A. E. Wohlert, Altoona, Pa., and who sends along, as a sample of what he can do, a photograph of four specimen plants of Primula sinensis showing flowers 17 inches in diameter. We present herewith a reproduction of the photo. Mr. Wohlert writes that the color of the flowers on the plants shown was pure white, dark carmine and pink with orange center. The plants were in 5-inch pots, started July, 1891, and photographed February 1, 1892. The seed was obtained from a grower in Denmark.

Regarding the size of primula flowers Mr. John Thorpe says: "A 2-inch Chinese primula flower is a very good specimen. But we are not going to *stop* at 2 inches. I well remember when a flower of an inch and a half was a wonder."

Work for the S. A. F.

Would it not be well if the S. A. F. would take up the question of free trade or reciprocity between Canada and the States so far as it affects the florist trade generally.

We have to pay 20 per cent duty, but that is not always the worst—the damage caused by delay, the extra trouble and loss of time makes it much more annoying. Surely if the S. A. F. were to

unite their forces their respective governments might be induced to take the duty off at least perishable goods, but a club single handed could not do much.

Perishable goods ought to come in free, fast and fresh as possible. Then how much more business might be done.

G. M.



Roses as Grown in Ireland.

[Written by Hugh Dickson, Belfast, Ireland, and read before the Social Florists' Club of N. J.]

By way of introduction I may be permitted to say that the paper I am about to read before you this evening is the outcome of a joke played upon me by my warm and very much respected friend John N. May when I had the pleasure of visiting his famous establishment at Summit when journeying through your country last year. Why such an eminent rose grower as Mr. May should impose upon me this duty is rather beyond my comprehension, but I take it that he had before his mind the vastly different circumstances attendant upon the cultivation of roses in the two countries and probably desired to draw comparisons between the methods adopted.

Within the limits of such a paper as this I must of necessity touch very briefly upon the more important points. The remarks that I now make apply solely to rose growing as practiced by us in the open ground. My experience dates from early boyhood and which in my earlier years was fostered and nurtured by my father, one of the oldest, and I may say without egotism, the most successful Irish rose grower of his time. I do not presume to teach anyone possessed of a better knowledge than myself, on the contrary I simply detail the methods of cultivation that I have found best calculated to grow roses successfully, whether for garden decoration or for exhibition purposes.

To begin, the first consideration should be the situation. In choosing a situation for roses it is essential to have a thorough circulation of air, ample sunshine and shelter. That these elements may be secured select an open piece of ground with a south or southeast aspect where you can have the uninterrupted rays of the sun from the time it rises in the morning until mid-day, with partial shade for the remainder of the day. Such a position is an ideal one and the best illustration I can give is a sloping hill facing south or southeast with its back to the southwest. Shelter is an absolute necessity, especially in the spring months, from the northeast winds which do much damage during the blooming season. If shelter does not exist naturally on the west and north sides a narrow belting of shrubs should be formed, or hedges planted will almost answer the same purpose; all that is required is something to break the force of the wind so as to check its violence before reaching the plants.

Soil is the next consideration. A really good rose soil is a rich, unctuous loam of good depth, resting on a well drained subsoil. Where such exists all that is required is to trench the ground early in autumn, adding a good supply of manure. Where such soil does not exist the grower must provide as near an approach to it as possible. Knowledge and labor can make almost any land suitable for growing roses with very fair success. Let me suppose the soil at my disposal is a heavy undrained clay, where after a spell of rain the water lodges in pools on the surface; with proper manipulation such land can be made to grow magnificent roses; all that is required is to thoroughly drain, trench and manure. Drainage is a very material element in the successful growing of roses, so that this operation should be performed with the utmost care and skill, always bearing in mind that "whatever is worth doing is worth doing well." Nowhere does this old adage apply with greater aptitude than in the observation of the entire routine necessary to the successful growth of roses. The drains should be three feet deep, laid out with the fall of the ground, filled with three-inch tiles, over which should be carefully laid nine inches of broken stones, the whole being covered with straw, sea weed or other rough material, so as to keep the drain clear and in good working order. The drain may then be filled with the soil which was thrown out, taking care to raise it above the surrounding surface to allow for sinkage. The next operation should be to trench or deeply dig the whole piece, working in a plentiful supply of manure as the work proceeds. On such a soil equal proportions of cow and horse manure is best, as the former alone is too cooling.

In the case of a very heavy soil with a subsoil of clay it will be necessary to lighten it somewhat; this will be best done while trenching and I know of nothing to equal lime, broken about the size of an egg, strewn over the ground, digging it in at various depths, allowing it to dissolve or slack in the soil. When applied in this way the gas as it escapes helps to mollify the soil. Care should be taken that the lime is not placed in contact with the manure. Where lime is not at hand road scrapings, peat mould and wood ashes or such like material will serve to loosen the ground.

In the event of the ground being light, sandy or gravelly, which are the worst possible for successful rose growing, it will be necessary to improve it, and this is best done by covering the ground to a good depth with a heavy loam or well worked clay; or the cleanings of ditches mixed with gas or quick lime, allowed to lie for a season, after receiving occasional mixing, makes an excellent material for top dressing.

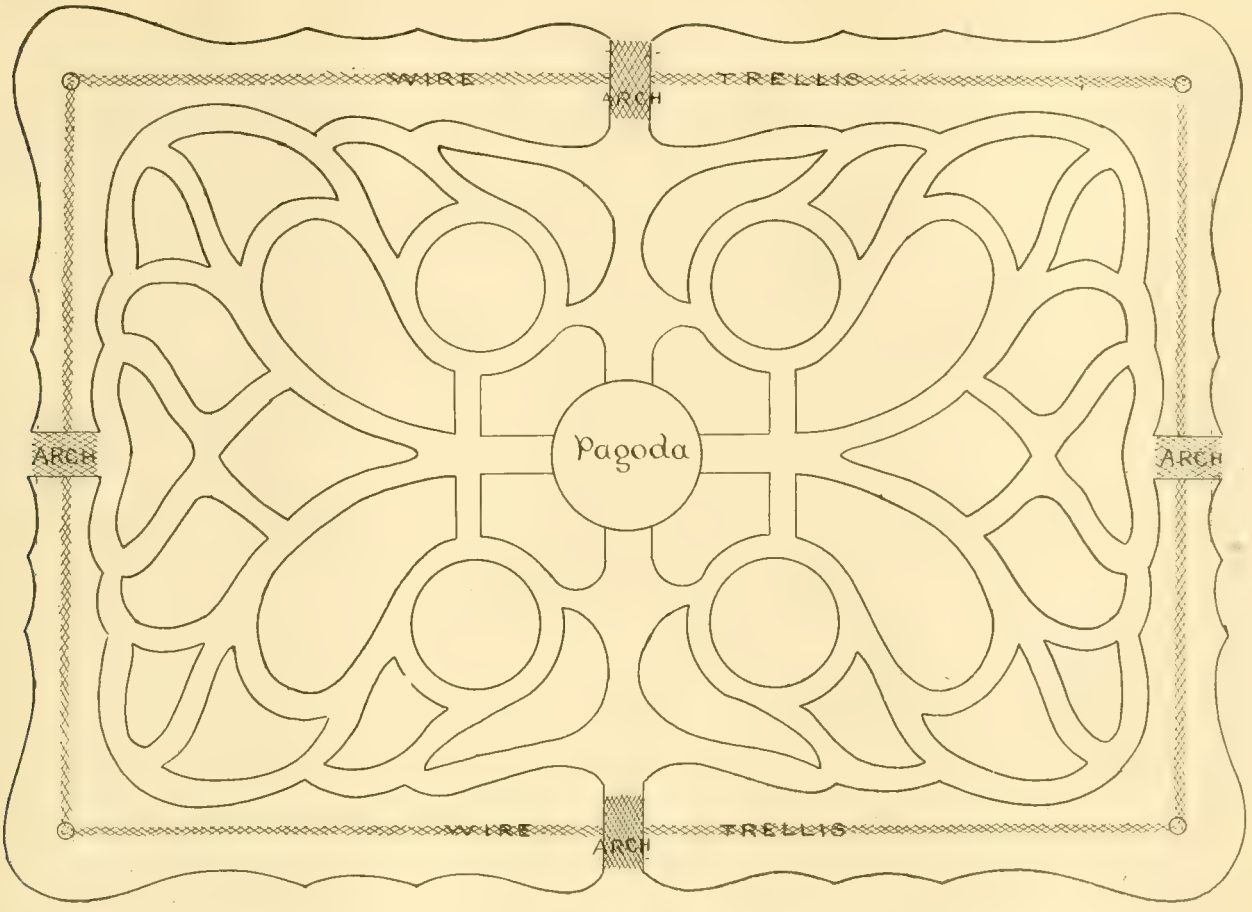
Roses are gross feeders and to secure good growths and a plentiful supply of first rate blooms their wants in this particular must be attended to, otherwise the results may be disappointing. The best general manure is that obtained from the farm yard. In this we have all the elements necessary for plant food. Cow or pig manure is probably best for roses; certainly such is the case on light lands, while for heavy lands I give the preference to horse and cow manure that has been slacked in a heap for a month or so. Artificial manures may be a necessity to exhibitors and should be applied at intervals throughout the growing and blooming seasons. There are a great many varieties of these and almost every exhibitor has his favorite. A cheap and at the same time a most effectual one is made of "night soil" and soot, to which should be added twice the bulk of burnt earth. This should be mixed up under cover about a month before use and should be sown over the ground at intervals of a month. Hoe or lightly fork in. Liquid manure is productive of beneficial results and should be applied throughout the growing and flowering seasons. For this purpose the drainings from the stable, cow house and house sewage are best. These should be diluted before application, say to about one-third of their original strength. Give a copious watering rather than a niggardly supply; the latter only cooks the ground and probably never gets the length of the roots. The best time to apply it is either during or after rain.

Roses are propagated from buds and grafts, also from layers and cuttings. The latter methods are not much practiced here, the best results being obtained from budding. The stocks in use are the manetti, brier cutting, brier seedling, De la Grifferæ and polyantha. The last named being only recently introduced here I cannot speak of its usefulness as a stock. The various growers are partial to their particular stock; in England the dog brier has the preference, in Ireland it is the manetti. The De la Grifferæ I do not like in any particular and to my mind it can be well dispensed with. Probably climate and situation should be taken into consideration in arriving at a decision as to which is the best stock for a particular locality. All things considered I would be inclined to give the first place to the manetti as a stock for almost all the varieties in the hybrid perpetual and moss sections and to the brier (either cutting or seedling) for the tea scented and Noisette classes. Roses that have been budded on manetti stocks that have been properly prepared, i. e., "eyed" when cutting, re-examined and shortened after being taken from cutting beds preparatory to planting in the quarters, are certain in the majority of instances to give highly satisfactory results. In County Down we have roses on manetti quite twenty years old, still clean, healthy and giving abundance of good flowers.

If it is the intention of the grower to propagate his own roses the first thing to be done is to secure a quantity of strong manetti stocks that have been thoroughly eyed or disbudded, on which to grow H. Ps only, but if a few tea scented are desired it will be necessary to procure either cutting or seedling briers. The roots of these should not be tampered with in any way. It is different with the manetti; we shorten them to half their length, so as to induce abundance of fiber.

Planting stocks should be done from October till March, but the earlier the better. They should be planted in rows about two feet, six inches wide, allowing 15 to 19 inches between the plants.

The budding of plants is an interesting operation and is easily done, probably not so easily described, a practical lesson being better and more easily understood than a written one. Budding is usually done from July to early in September. Much depends on the condition of the stock, if the sap is running freely it can be successfully done up to the middle of September. To bud successfully proper shoots from which to take the buds to form the future tree must be selected, as much depends upon the condition of the shoot. The best is a half ripened shoot. When this has been cut off the plant it will be necessary to remove the spines and leaves allowing half an inch of the foot stalk to remain. This enables the operator to insert the bud and at the



PLAN OF THE ROSE GARDEN AT THE WORLD'S FAIR.

same time is a shield or protection for the eye. The shoots so prepared should be packed away in damp moss and only taken out as required, as success greatly depends upon the careful handling of the shoots from the time they are cut off the plant until the bud is inserted in the stock. All now being in readiness to make a start the operator must be provided with a regulation budding knife, then take the shoot in the left hand, the top pointing outwards, make an incision about half an inch above the eye, cutting slantingly until past the center when the bud may be drawn off, turning it over between the forefinger and thumb of the left hand so as to remove the small piece of wood that has been cut with the bark. This being carefully removed and the base of the bud shortened it is then ready for putting into the stock. To prepare the stock to receive the bud make a cut in the stem immediately over the roots in the shape of the letter T, lift the bark on each side of the cut with the bone end of the budding knife and insert the bud, pushing it well to the base of the incision and cutting away any bark that may project over the top cross cut. The bud must then be carefully tied in with a suitable material (we use raffia). In tying, start well below the incision, bracing firmly both above and below the eye, finishing off clearly above the cut. In spring—say March—the stock requires cutting over about an inch above the bud. As the young buds grow they must be tied to stakes or supports of some kind, otherwise the wind will blow them out, an event that too frequently occurs during stormy weather.

Probably the grower instead of propagating his plants will prefer to purchase them. In such a case it is most important to procure strong, well rooted plants and such as have been worked on disbudded stocks and not uneyed ones, as is too frequently the case, many growers objecting to the cost of eyeing the cuttings; in such cases the roses are very frequently strangled by the suckers, which are certain to rise from stock so prepared. It is therefore necessary to place your order in the hands of a reliable nurseryman, whose stock is grown as recommended, with instructions to despatch quickly and with the roots carefully packed. The plants on arrival should be unpacked in a shed where the roots must be watered and covered with some protecting material, as when exposed to cutting or frosty winds irreparable injury is done.

The next operation will be planting, and if to secure successful results this must be carefully attended to. If a large plot has to be planted and the ground has been prepared as recommended the operation is a simple one. Begin by leaving a margin of 18 inches between the wall and the first row of plants; with the garden line marking out the position, proceed to throw out a trench sufficiently deep to allow the plants to be placed about two inches above the juncture of the bud with the stock and wide enough to permit the roots being spread out to their fullest extent. Avoid crushing and crumpling the roots. When the plant is in position place a shovelful of the soil over the roots and tread firmly. The row may then be dug up to the width of three feet, leveling the surface nicely for this purpose. I prefer the digging fork as it leaves a rougher and better skin on the soil. Spades are liable to gloss it too much. All that is required now is to apply the measuring stick, which should be two feet six inches long, and then shift the line to the marks, cutting away the extra six inches which has been dug up and which makes a proper seat for the next row of plants. Continue in this way until the plot is completed. When finished give the entire plot, where possible, a coating six inches deep of well decomposed stable and cow manure; this will protect the shoots from injury by frost; let the litter be placed through the branches, it won't injure them. It makes a perfect protection in addition to its manurial value. In spring this mulching may be forked into the ground.

Pruning is another operation second only in importance to that of planting. Success largely depends upon the manner in which it is performed. The best tool for the purpose is a good sharp knife, which enables the operator to make clean cuts. Avoid the seccateur which makes a bruised cut. The season for pruning varies according to locality and variety. For general purposes the majority of the H. P. section may be cut back at intervals from the second week in March until the end of that month, while in regard to tea varieties the end of March and beginning of April will be early enough. The first act of the operator will be to examine the bush thoroughly, making mental note of such shoots as require to be entirely removed. Those being cut away the remaining shoots must then be cut down to three or four eyes each in the case of moderate growers, while the more vigorous may be left with six to eight eyes.

In all cases endeavor to prune to an eye looking outwards. To many people such pruning may appear unduly severe, but such is not the case as by leaving a limited number of eyes to each shoot the blooming shoots are more vigorous than those left with double the number of eyes. As soon as the plants have started to grow it will be observed that there are more shoots than it is prudent to allow the plants to carry; a number should be cut away, removing any growing inwards, and which in all probability would fill up the center of the plants. This is what is called thinning the shoots and it will be patent to the observer that such a course tends to strengthen the selected shoots, which will consequently give finer flowers.

To secure blooms of first size and quality it will be necessary to resort to disbudding. This may be done by removing the side buds, as soon as they have sufficiently developed, without injury to the center bud. At this stage the shoots, all of which are crowned with flower buds, should be supplied with stakes, this will prevent injury from high winds. From this time onwards the rosary will be full of interest and will require constant care and attention; copious supplies of liquid manure will now be useful, and regular hoeings to keep down weeds will now be necessary. A close lookout must now be kept for insects; the rose maggot usually makes its appearance early in June and is only to be destroyed by hand picking. Every leaf with a contorted appearance should be examined and as the grubs are destroyed it is advisable to remove the leaf as it frequently saves a second examination. Greenfly or aphis will likely be troublesome; this is best kept in abeyance by syringing with a wash made up of four ounces of Quassia chips boiled in one gallon of water, to which should be added while cooling four ounces of soft soap, and before using two gallons of water may be added and leave it sufficiently strong.

Mildew generally makes its appearance during July and may be kept in check by dusting the affected parts with sulphur or syringing with sulphide of potassium. Beyond disfiguring the plants mildew does not seem to injure them, the tops of the shoots being usually the only parts affected, and these in pruning are cut away.

Spring Exhibition Pennsylvania Horticultural Society.

(CONTINUED.)

Philadelphia is further behind in the number of orchids grown to supply the demand than she ought to be considering the volume of trade done in other cut flowers. Had it not been for the generous support given by Messrs. Pitcher & Manda, Short Hills, N. J., and Messrs. Siebrecht & Wadley, New Rochelle, N. Y., the display of orchids at the last show would have been rather meagre. True those which came from Mr. Chas. Dissel, of this city, were creditable indeed, but to Pitcher & Manda belong the honor of having the best and largest collection.

Among them were noticed Cattleya Mossiæ matutina, an early flowering variety of the type, and the yellow tulip orchid (Cattleya citrina) of Mexico; Phalænopsis amabilis and P. Schilleriana; odontoglossums in variety, such as O. crispum—Josephine variety, O. crispum aureum, O. sceptum, O. triumphans aureum, O. Pescatorei, O. Rossi majus, Lycaste Skinneri and the rare L. Skinneri alba. There were some fine flowers of Cattleya Lawrenciana as well as the older species, C. Trianæ, and the rarer C. T. alba.

Among other orchids there were Dendrobium nobile—dark flowers, D. Wardianum, Phajus grandifolius, Vanda Amesiana, Epidendrum vitellinum var. majus, with bright orange colored flowers, a color not at all common among orchids, and an oncidium, the name of which I forget. Cypripediums were out in strong force. There was the grand hybrid C. Schroderæ splendens, the result of a cross between C. caudatum and Sedeni, and the new species Amesianum, as well as caudatum, conspicuum, Dominianum and some fine forms of C. Boxallii and villosum. Two other hybrids were C. Pavonianum inversum (which was obtained by crossing C. venustum with the pollen of C. Boxallii), and C. lacidum (cross between C. Lawrenceanum and C. villosum superbum). Besides orchids there were some good examples of anthuriums, which heightened the effect very much. There were A. Brownii, Clarkianum, Reynoldianum and Reynoldianum magnificum, Rothschildianum, Rothschildianum album, Veitchii rubra and some other rare sorts.

In Messrs. Siebrecht & Wadley's exhibit were Cattleyas Trianæ, citrina, Lawrenciana, Mossiæ, Schroderæ, Lycaste Skinneri, Lælia purpurata, Phalænopsis amabilis, P. Schilleriana, Odontoglossum crispum and O. Pescatorei.

In Edwin Lonsdale's lot there were ten or a dozen plants of Cattleya Trianæ, and no two of the flowers on the different plants were alike. This goes to prove that in the wilderness they seed freely and the seed germinates with more certainty than it does in cultivation. There were also a number of plants of C. Lawrenceanum. The same is true as to this species as stated in reference to the cattleyas; the flowers vary considerably. C. Harrisianum, with its parents, C. barbatum and C. villosum, one on each side of it, was an object of interest. Not because it is new, rare or costly, but because it was the first hybrid raised in cultivation and it is a good and useful sort. Dendrobiums nobile and Wardianum and the yellow flowered, sweet scented D. suavissimum added much to the general effect on account of its highly colored flowers; the rich brown spots in the throat of this blossom gives it a rich effect.

EXHIBITION ECHOES.

Mr. John McGowan sent some fine blooms of seedling and other carnations. Whether they were entered for competition or not I do not know. The judges did not pass upon them. I forget whether "Iago" was one of them or not. "Iago" is a very fine crimson in color, of good size and has the advantage of a stiff and erect stem.

The seedsmen were out in force. H. A. Dreer, H. F. Michell, John Gardiner & Co. and H. G. Faust & Co. all had trade displays, all of which were very attractively arranged.

The members of the committee on awards should in all cases form a part of the committee on the revision of schedule, even if they shall be known only as an advisory committee. They are more likely to know where the defects of a schedule may be and could offer valuable suggestions, that if carried out would strengthen the prize list.

When the judges were examining the collection 25 plants, different varieties, in bloom, some one deplored the fact that the competition was not keener in that class, whereupon another remarked that it was a difficult matter to get enough variety in bloom at that season of the year. Here is a case where, if the old schedule passed through the hands of the judges first before it went to the regular committee on revision, that part of it would be modified in some way, so as to encourage a better showing at the exhibition in 1893.

Suppose we look into the premium list and find out whether there were any classes in which there was no competition. There were no entries for zonal pelargoniums, nor for fuchsias. There was a time when William K. Harris exhibited these graceful flowering plants in fine form. There were no pot roses, nor the stately and magnificent rhododendrons. What an excellent effect fine large plants of these would make in any exhibition! It is high time somebody took up the calceolaria in this city. There is a class for these beautiful showy flowering plants, but no competitors. Mr. W. Falconer had some fine examples of excellent culture at the Eden Musee, New York, some years ago. We did not even have any forget-me-not, nor stock-gillies. Neither Rex begonias nor those with tuberous roots were there. No amaryllis nor ranunculus. Yes, we did have a dozen anemones. Somebody wanted to pass them off for ranunculus, but John Bell would not have it that way. Out of four classes for hyacinths only in one was there any entry and there only a solitary one. There was one exhibitor only in each of the following classes: Tulips, 6 varieties, 6 of a kind in 6-inch pots; tulips, one box (flat) of 50; tulips, 12 varieties, 12 6-inch pots, 3 of a kind in each pot; narcissus, 24 single trumpet varieties; narcissus, 24 Poeticus varieties; narcissus, 25 double varieties. None in class for N. Tazetta (polyanthus). There were none for Lilium longiflorum, 6 plants, nor Lilium Harrisii, 6 plants, nor L. candidum, 6 plants. It is very hard to account for these classes being entirely neglected, or almost so, by exhibitors, and especially is it noticeable when nearly all of the plants in them are flowers that bloom in the spring tra la.

It should have been stated in the report that Carnation Edna Craig, winner of the silver cup, was exhibited by Messrs. E. G. Hill & Co., who bought the seedling from Fred Dorner. Mr. Robert Craig is luckily the joint owner with Messrs. Hill & Co. of this valuable variety. L.

Roses at the World's Fair.

The display of roses at the World' Fair promises to be a very important feature in the floricultural department. Foreign growers will be well represented and of course American growers will not be behind.

A space of an acre on the Wooded Island will be devoted to the rose garden, of which we present the accepted plan in this issue.

The applications for space have been very numerous and as the list will be pruned down to the most effective displays, the rose will be presented in her very best form to the visitors to the great fair.

THE Toronto Gardeners' and Florists' Association has issued a list of premiums for its third annual chrysanthemum show, to be held Nov. 8 to 10 next. Copies may be had on application to the secretary, Mr. A. H. Ewing, 276 Victoria street, Toronto, Ont.

Boston.

Preparation for Easter is the main topic just now with grower, wholesaler and retailer. As by the time this reaches the FLORIST's readers they will be up to their eyes in Easter work and with no time to spare for even such a useful occupation as reading the FLORIST until Easter be past, it would be unprofitable to take up space here commenting upon the indications. Suffice it to say that there are a great many lilies in this neighborhood and unless appearances are very deceptive they will be just in the "nick of time." Certain it is that there has been no overstock of lilies during the past week, although the prevalence of steady warm spring weather would rather favor such a condition, and it looks as though if the weather had not taken this turn some of the boys would have stood a good chance of being left. The florists' windows have given no indication of the approach of Easter, their owners probably husbanding their entire strength for next week. Roses, especially Jacqs, have been very abundant.

Fast day, April 7, was an ideal spring day. The streets swarmed with people who sauntered up and down in endless thousands. The "street fakirs" were out in full force and judging by the crowds that constantly surrounded their fragrant wares the quantity of flowers which found an outlet through this questionable medium must have been enormous. The regular stores were correspondingly dull and mutterings were many and deep.

As to the quality of stuff in the fakirs' possession nothing derogatory can be said. Mermets, Brides, Perles, Niels and Jacqs, as well as the patrician Brunners, Luizets and Wabans, all in the very best shape; carnations of every hue including even the Golden Triumph, which thus reaches the street people before even it is in the hands of the growers of the country, violets, pansies, lily of the valley and the first cut of May flowers all were there in quantity unlimited.

Well may the store florists stop and give a very sober thought to this condition of things and cudgel their brains for a cause and a preventive. They might ask themselves why it is that Boston, the second floral city in the country in the quantity of its productions, is thus over run, and that new and rare varieties of flowers get their first introduction here to the public through such a medium. An answer and partial explanation might be given them by the wholesalers who have labored for years in the uphill and hopeless endeavor to regulate and control the marketing of cut flowers in Boston, and who have found their biggest enemy and most stubborn opposition in the retail florists, who instead ought to have been their most ardent allies.

The Gardeners' and Florists' Club too might remind the retailers of their neglect of that organization, formed originally for the good of all, and offering to them the benefits and power which result from union and organization, but depending up to the present time mainly upon the growers for its existence and support.

In the meantime the octopus is growing stronger every day, and its ultimate effect on the flower trade can only be conjectured. The street fakirs knew enough to place a proper value on organization. They have a Peddlers' Association and it adds in no small degree to their strength.

A Boston Journal reporter has been interviewing "a prominent dealer in cut flowers on Tremont St.," with the usual result. He has one man stocked up with 150,000 hybrid French cannas, and credits another "skilled florist" with paying from $500 to $1000 each for giant ferns. He dips into hybridizing too, and sweetly tells of the important part played by the camel's hair brush in replacing the Sunset M. Niel and Bon Silene "of a year or two ago" with the Waban, Bride, Jacqueminot etc. of today. It is a pity he didn't stop right there with his "fructifying dust," and one wonders why the "prominent dealer" didn't leave him there instead of stuffing him up with frightful stories about the payment "cheerfully" by a society young man last Easter morning of $300 for two corsage bouquets, the $24 per dozen roses, the upward tendency in price of violets, lilies, pinks, tulips and nasturtiums, and the young man who wishing to buy a few flowers for an Easter gift to his girl will hear prices that "will make his ears tingle." The number of Easter customers who will steer clear of the stores after reading such stuff, and who will leave their money with the street fakirs on account of it, is a matter of conjecture only, but it is hard to understand how any florist can be so crazy as to inflict deliberately such an injury to his own business.

On Sunday, April 3, about 10 or 12 acres of the Arnold Arboretum was burned over, a large number of shrubs and fine specimen evergreens being destroyed and a plantation of beautiful young oaks from 10 to 15 years old completely ruined. It was only by the liveliest kind of work that the fire was finally brought under control, the noble pine grove at the entrance and Mr. Motley's house having a very narrow escape.

Mr. Dawson naturally feels much dejected, but he was moved to wrath mingled with disgust on reading the account of the fire in the Monday morning paper. "Brush fire, no damage." He thinks that if a hen coop could only have been included with his rare trees the damage would have been at least $50, and the addition of one pig pen would have made it a "heavy loss."

Prunus pseudo-cerasus fl. pl. from China is one of the most beautiful forcing shrubs. Mr. Dawson has little plants of it, grafted a year ago, which were taken from the cellar a few days since and are now perfectly covered with a mass of delicate pink blooms.

Already several of the more precocious shrubs are in bloom outside. A handsome tree of Prunus Davidiana is at the height of its beauty, and down in the nursery the big cloud of yellow shows afar off where the Cornus mascula is doing its duty. L. Standishii, the earliest of the loniceras, is in bloom already, and among the smaller growing things are Andromeda Japonica which is just opening its buds, and Erica carnea which is covered with pink flowers. At the time your correspondent called Mr. Dawson was packing several large cases of shrubs which were going to Mr. Laney for the parks at Rochester, N. Y.

The April meeting of the Gardeners' and Florists' Club was well attended and Mr. Lombard's paper on carnations (which appears elsewhere in this issue) was received with much favor. The paper was illustrated by samples of cuttings, propagating sand, soil, etc., which were passed round for inspection. Four new members were admitted to the club.

On April 9 Joseph Tailby & Son showed at Horticultural Hall blooms of seven seedling carnations which attracted considerable attention. The more noticeable ones were a creamy white with deep carmine markings, a very large flat flower; a pure white measuring 3½ inches in diameter, petals very broad, fringed, rather loose; a deep pure yellow, very full round flower, and a yellow of lighter shade, not so full and perfectly smooth edges.

D. Zirngiebel says: "I have at last the 'Ideal carnation.' It is so large that I don't dare to tell the size, you would not believe me."

New York.

April opened with a warm wave that fairly demoralized cut flowers; roses were extremely plentiful, but soft and somewhat off color, and every variety of cut flowers suffered in transportation. Prices are somewhat limp, though they do not seem to vary much. Smilax still keeps scarce—in fact the same may be said of all florists' greens. Similarly, there is still a scarcity of small ferns; the New Yorkers have been sending to Philadelphia in search of them, but the dearth is felt in that city also.

Snowballs were among the choicer forced shrubs noted lately in pots; also some very dark colored lilacs. Easter stuff is to be seen everywhere; the florists are making large displays, and the number of irregular street dealers is very large. The preference seems to lie in the direction of pot plants for Easter gifts; next to this come loose flowers. Baskets or designs are likely to be greatly in the minority.

It is next to impossible to quote prices a week in advance; the volume of stuff already coming in is very large, but the demand will equal it. According to present prospects, prices will be much the same as a year ago.

Thos. Young, of Young Bros., has bought a country place in New Jersey in the neighborhood of Summit, which he will now make his home.

One of the handsomest wedding decorations of the season was arranged by Siebrecht & Wadley on April 7. It was to be considered an Easter wedding, and the flowers used all carried out this idea. On entering the main hall the eye was taken by masses of golden genista and acacia, disposed over the grille screening the stairway; tall lilies in pots stood below. The first reception room, like the hall, was white and gold. Groups of genista, daisies, hydrangeas and white azaleas filled the corners, flanked by tall palms. A particularly happy effect was produced where these white and gold flowers were disposed about a piece of statuary. The mantel, instead of the usual bank, was adorned with large plateaus of daffodils and daisies, while the large mirror at the back was screened by an extremely effective arrangement of asparagus fringed with cattleya blooms, giving the effect of a scarf thrown across it. Below the mantel was a bank of hydrangeas.

The second reception room, in which the marriage ceremony was performed, was entirely decorated with pink and white roses, an immense quantity of these flowers being used. The wedding canopy or bower was a most charming departure from the usual style. Instead of having the ordinary curtain effect it was simply a bower of roses, put across one corner of the room. The flowers—Brides and Mermets—were formed into long garlands, and these so disposed as to suggest the natural growth of a climbing rose. The effect was charming in its simplicity. The mantel in this room was banked with Baroness and Morrison roses, roses in pots being placed in front of it. Large

baskets filled with roses were placed on marble pedestals, while a screen of palms at one side formed a music gallery. The dining-room was entirely decorated in red—azaleas and roses in pots. Over the table was a round canopy of smilax; in the center a cornucopia filled with Jacq. roses hung downwards. The idea throughout the decoration was that of Easter, the flowers used giving a very spring-like effect. The bridal bouquet was lily of the valley.

Mr. Ed. Jansen reports from Paris that there are very few novelties for Easter. Plenty of fancy raffia handle baskets and palm leaf braid baskets. The old style "Fish basket", in all sizes up to three feet across, filled with blooming plants and with lots of ribbon to match the color of the blooms tied on the handles, are to be seen in all the florists' shops.

Philadelphia.

The April meeting of the Florists' Club was well attended. Mr. Robert Craig occupied the chair for the first time since November last. He is now in pretty good health and gaining strength every day.

The following gentlemen were elected to membership: Hugh Roney, W. B. Westcott, H. H. Beatty, Arthur Mallon, Jr., John W. Bishop and F. Blakeborough. The amendment to the by-laws prohibiting smoking was adopted without a dissenting vote, notwithstanding the fact that smoke from at least a dozen Havanas(?) was making its way towards the ceiling while the vote was being taken. A vote of thanks was given to Mr. W. R. Smith, of Washington, for books received and his generous offer of others. A Mr. Randolph, representing a hotel company of Chicago, presented a scheme before the club looking to their accommodation in a body at the World's Fair. Those who desired to go by paying $3.50 would be given a certificate which would entitle them to the benefits of the company. The matter was laid aside for the present.

The prize won by Geo. McLean in the recent bowling tournament was passed around and much admired. It is a handsome pitcher and tray of quadruple silver plate.

A special vote of thanks was given to John Westcott for his valuable services at the exhibition of the horticultural society.

The essay for next meeting was assigned to Chas. Longinette, who will prepare a paper on "How to conduct a retail cut flower store."

Thos. Cartledge read a very interesting paper on decorative plants and floral decorations for which he received the thanks of the club.

Mr. Craig said that in addition to plants mentioned by the essayist he would recommend Phrynium variegata, which he thought was a coming plant; it would be a good plant for a florist to get mixed up in. Would also recommend Bellina stricta, and he also thought that plants of Asparagus plumosus in pots would soon be largely used in fine decorations.

Business has not been good the past week, great preparations are, however, being made for Easter and all the signs point to a busy time.

The weather for the first four days of the week was intensely warm and very hard on flowers. Saturday there was a change and it is now quite cool. Anderson will be right in it so to speak, as he has a large house of fine Brunners and Laings that are just right every way, as he can cut almost the entire crop for Easter. He will have no competition as all the others are cut out. He also has the finest hydrangeas about and says they are all sold.

Mr. Harris broke ground for his new houses this week. There will be nine of them, each 100x20. He will take down some houses on the old place and use the glass in the new as far as it will go.

Liliums longiflorum and Harrisii are selling in pots for Easter delivery for from 10 to 12½ cents a flower. A great many lilies are to be seen that were cooked, or stewed, as one man put it. The foliage is all right, but the buds turned yellow and dried up when about half developed. It seems pretty hard to have all the trouble of growing lilies and then just when the profit is almost in sight to have to relegate them to the dump.

The wonderful increase in the number of ornamental accessories now demanded by the retail florist was brought forcibly home to the writer by a recent inspection of the stock in the florists' supply establishment of H. Bayersdorfer & Co., of this city. To one familiar with the limited number of articles considered necessary—in addition to flowers—ten years ago, the fact that such a variety, in such quantity, is now called for, shows the surprising growth of the trade. Here are a little army of skilled workmen turning out a remarkable variety of dainty baskets, wheat sheaves, plant and flower stands, and an endless variety of other things now considered necessary to the retail florist. Here many tons of Italian wheat are annually made up into the ornamental sheaves that are now in such demand, and this is but one item. Every season hundreds of new and novel things are added, either originated here or imported from Europe and the various floors are now packed with such an array of wares as would have completely bewildered the florist of a few years ago. Surely the florists' supply men are keeping up with the procession.

Chicago.

At the meeting of the Horticultural Society of Chicago last Saturday afternoon considerable routine business was disposed of and there was a lengthy discussion upon the proposed International chrysanthemum show in the Horticultural Building at the World's Fair next November. A committee was appointed to confer with the proper World's Fair officials in regard to the matter and to urge immediate action. Chief Thorpe stated that he had already received letters from European growers signifying their intention of sending plants for competition. As the World's Fair opens in May and closes in October the people will have no opportunity to see the chrysanthemum at the exposition except through the medium of an advance exhibition as proposed. It is also thought that arrangements may be made for a series of special exhibitions to succeed the chrysanthemum show and extend through the winter until the time of opening the great exposition in May. Orchids were specially mentioned as a class of plants that should be represented in this series of winter shows. A paper upon the treatment of Dutch bulbs, both indoors and out, from the amateur's standpoint, was read before the meeting by Dr. I. A. Kennicott. Three applicants were elected to membership. The secretary's report showed receipts and disbursements of $2,373.53 during the past six months.

Trade for the last two weeks has been very quiet, at the same time the supply being rather light and there has been no apparent glut of anything. We do not remember a season where the demand was so equally balanced by the supply. For a few days here and there the stock of roses accumulated somewhat and prices dropped accordingly, but on the whole the prices realized by the growers were far better than at any previous season in Lent.

It is difficult to predict what the supply for Easter will be. Harrisii lilies and callas, so far as we can judge, promise to be plentiful. Orders are booked for first class stock at $18 per 100 for Harrisiis and $15 for callas. L. candidum have been very poor so far. Although the supply is plentiful and prices moderate, the demand for this flower is very light. Bulb stuff of all kinds continues scarce. Good tulips particularly are in great demand, but very few can be had and there is little prospect for good stock for Easter. Lily of the valley and Romans also promise not to be over-abundant. Violets have been abundant and have kept up wonderfully well as regards quality. The average cut as seen in the market to-day has never been better for this season of the year. The prospect for roses seems good. Jacqs are coming in freely and of fairly good quality. Good Beauties are scarce and hybrids also. Perles, which were extremely scarce in the early part of the season, are quite abundant. Carnations continue in great demand and the white varieties particularly will be scarce for Easter.

E. H. Hunt has considerably enlarged his establishment in order to give more room to his cut flower department, and he now has an admirably arranged place.

Last week E. Wienhoeber & Co. gave a private exhibition of plants and cut flowers at their store on Elm street. A splendid display was made and it drew a large attendance of visitors. This firm does a fine trade and such displays as that made must certainly strengthen them with their customers.

Joseph Curran will remove to 175 Wabash ave. May 1.

Kennicott Bros. have leased a large store at 34 and 36 Randolph street and will remove thereto May 1. The new place has several times the room the old one afforded and is on the ground floor. Mr. Flint Kennicott has been confined to the house by illness for several weeks.

Mr. J. C. Vaughan returned recently from a trip to New York and Philadelphia.

Mr. W. H. Chadwick, president of the Hort. Society, is getting out plans for four new greenhouses, having sold his old ones.

Mr. L. T. Feck, of Boston, recently paid us a visit and loaded up the boys with heath and other stock not to be had here as yet.

Buffalo.

Our first club meeting since the election of officers was quite encouraging and several live subjects were discussed. The club is about to disseminate to our citizens the knowledge of how best to fight the various pests that destroy our beautiful shade trees. Another committee is assigned to work up the activity and sympathy of our police force and stop, if possible, the depredations on and stealing from flower beds and borders, of which there has been much complaint for several years past. The grounds and yards on our best streets and avenues are entirely unprotected by walls or fences of any kind; so much the better for the beauty of the street; and flowers on such grounds are not only a joy to the owners

but an embellishment to the whole street and city and it is greatly to the interest of the florists that the owners are not discouraged by losing what they have paid well for, and what is more have for months perhaps anticipated pleasure from. The judge who will deal with these miscreants has promised that the first wretch caught stealing from an early tulip bed shall be sentenced to 30 days' hard labor shoveling ashes from an 8-foot stoke hole and be dieted on raw calla bulbs washed down with tobacco water.

At the next meeting of the club the schedule of our chrysanthemum show will be submitted and the president, secretary and somebody else has promised "faithfully" to give us a better exhibition than ever and a balance on the right side.

An Interstate fair will be held here in August. It will be on a large scale; a big amount of money will be offered in premiums for plants and flowers. The directors have wisely left the management of the horticultural department in the hands of the Florists' Club, but not with financial responsibility.

William Scott and Joseph H. Rebstock visited Utica and Rochester recently. They seem to have called on almost all the florists. They report seeing some wonderful roses, but no smilax. They were impressed with the fact that Peter Crow was adding to his avoirdupois and bank account right along.

Mr. D. B. Long has started on a western trip, ostensibly to introduce his floral photographs, but no doubt to gather in a few points himself.

Wm. J. Palmer, Jr., has returned from a trip among the New York and Philadelphia men, and before long the fruits of his trip will be visible in town.

R. F. Laurence, the Main street florist, has taken into partnership Mr. E. M. Giddings. Mr. Giddings is an extensive and successful wholesale grower. The firm name will be known as Laurence & Giddings.

Adams & Nolan (the popular boys) will on May 1 remove from their present location to a fine large store in the best business block, 416 Main street.

Mr. Peck, of Boston, and Mr. Killen, of Chicago, were in town recently, and Mr. Gasser, of Cleveland favored us with a call and a good talk on his homeward journey from the east.

It is sad to relate, but nevertheless true, that the weekly meeting of the bowling club brings out a larger attendance than does the regular meeting of the Florist Club. Why is this thus? Is it because there are no refreshments at the latter meeting? I think not. The sedate Cowell, society man Rebstock, æsthetic Long, sportive Mepsted and corpulent Scott have a vision of a glittering gold piece. A dozen or more are just as foolish. Poor creatures, it is good for their health and as venerable "deacons" in other cities do as bad they must be excused.

On the occasion of James F. Crooker taking his chair at Albany on Wednesday last, as Superintendent of Education of the State of York, his friends here sent him a magnificent floral chair. A long description of it was given in some of our daily papers. It was of full arm chair size and faithfully worked out. Many thousands of flowers were used in it, mostly violets, roses, carnations and pansies. It was the work of florist J. H. Rebstock.

A funeral design out of the ordinary run was sent to the funeral of an engineer. Of course it was an engine. It was four feet long; base, of Mermets and blue for-get-me-nots; fly-wheel, one of Mermets and one of Wilder carnations; cylinder, of white carnations and Bride roses; steam chest, of purple pansies; eccentric wheels, of Perle roses; piston-rod, crank and valve, of violets. Scott turned out the engine. These mechanical designs should perhaps not be encouraged but if the people demand them the truer they are worked out the better. G. S.

OBITUARY.

SIDNEY S. JACKSON, The veteran florist and horticulturist suddenly but quietly and peacefully ended his earthly labors on the 16th day of March, 1892, in the 89th year of his age. Born on the 22d day of August, 1803, in Philadelphia, his parents removed soon afterward to New York and then in the year 1813 removed to Cincinnati, purchasing soon afterward the farm in Green township, Hamilton county, Ohio, and on a portion of the same which he inherited from his father has passed the major part of his life, and there yielded up his spirit to his Maker. His wife and bosom companion through life, preceeded him only about 2½ months and it was the privilege and pleasure of the writer to be present at their golden wedding, next, the pearl wedding and finally the 65th anniversary, on the 9th day of November last. Of the children which arrived at the age of maturity two daughters survive, one married, the other single. One son sacrificed his life in upholding the Union. Two sons were accidentally drowned. Upon the organization of the Cincinnati Horticultural Society, in 1845, his name appears as one of the charter members and he was and remained one of the active and solid members until its work and usefulness seemed complete only a few years since. Of the sixteen who composed the organization at that period only one survived him, viz: the venerable Jacob Hoffner, who is now nearly if not quite 93 years of age. It is not my purpose to go into details of his early life, only to say he evidently inherited from his father much of the sterling integrity and methodical ways he possessed. A record daily kept by his father from 1813 down to his death in 1848, of the weather, temperature, meteorological conditions, frosts, conditions of the fruits, is the most systematic, complete and accurate that could be made and interesting to examine. He possessed natural mechanical ingenuity and had his separate work shop with boiler, engine, lathe and other machinery necessary to work out many of the tools, knives and appendages necessarily connected with cultivating the soil, grafting, budding, etc., where he spent many of the happiest hours of his life.

It is sixty years or more since he turned his attention to the business and profession of plants, trees and propagation, which was at a period when everything connected with it was in a state of infancy, and in his anxiety to unravel, develop and improve the business became endeared to him and although of a very quiet, reticent nature, no one was a more observing or attentive listener than he, and when his conclusions were reached they were expressed in very few words and were almost invariably correct. He was an ardent lover of nature and in the growth and development of plant life his whole soul was wrapped up and everything under his charge was watched, trained and fed with the same care and anxiety a fond mother watches her darling child. There now stands in the front of his grounds probably the most symmetrical and finest cut leaved beech that can be found in the United States.

The characteristics of his life which stand out the most prominent and of which I could speak in tones that would vibrate forever upon the ears of all engaged in the same business and profession, was sterling integrity, honesty and truthfulness. No living man had those principles more deeply engraved upon his heart than he, and none was more careful and guarded to be always in the right. He said to the writer only a few years since he had in all his business career only one complaint to reach his ear that what he sent out was not true to name and in that case he was the victim of misplaced confidence. His ambition seemed to be not to accumulate wealth but to be always correct, truthful and right and then have a conscience that would not sear and burn when the fatal moment arrived. His spirit left the body while in a quiet sleep, without a groan or struggle, thus showing he had not lived his life in vain and had a fitting reward for his good deeds and honest heart. What more can I say? Yes, a noble life and most excellent pattern to imitate. T.

FREDERICK MAU, the well known orchid importer, of Orange, N. J., died April 11th aged 47 years. He had been sick with pneumonia and heart trouble since last December, but was improving when a relapse resulted in his death.

He was born in Brandenburg, Prussia. When a youth he was apprenticed to a horticultural establishment in Berlin, and was afterward employed in various parts of Germany. He was in Basle, Switzerland, in '73 and '74, and in Paris from '76 to '80. He then went to London and from there went to South America as a collector of orchids for Sander in whose service he remained several years. Later he collected on his own account, and in '85 he began the direct importation of orchids for sale at the New York auctions. He was the pioneer in this line. In '87 he built greenhouses at Union Hill, and from there went to Orange two years ago.

He leaves a wife and three little children. Mr. Mau was very highly regarded by all with whom he came in contact. He was kind-hearted and generous to a fault. While in Paris his generous assistance to Germans there seeking employment, at a time when Germans had little favor there, saved many a poor soul from despair.

During his service as collector he shipped Sander hundreds of thousands of Odontoglossum crispum, and discovered Cattleya Sanderiana, C. Schroderæ and others.

Baltimore.

Now comes the blooming spring, and the grass has grown three inches since the last note from this locality. The thermometer was actually seen at 83° in the shade by yours truly one day, and the whole week has been warm, almost sultry though cloudy weather has prevailed. An occasional prunus may be seen in full bloom, and the daffodils, jonquils and out door hyacinth have leaped into blossom in such wise that the town is full of them. Hydrangeas are apparently destined to be scarce at Easter though, in spite of the warm weather, but all other usual Easter stuff bids fair to be plentiful. Roses are going a begging, some very fine La France and hybrids among them, but all less perishable flowers are stiffening in price, and

things that will keep, as callas and most plants have crawled right up to Easter prices. Fine plants of Astilbe Japonica in full flower are selling at 25 cts; small callas in bloom at 30 cts; violets from 25 cts. per 100 up to 40 cts; La France buds 8 to 10 cts; Hybrids 15 to 20 cts; the Dutch bulb man is abroad and is raking in big orders, though the same old cry is still heard that forcing Dutch bulbs doesn't pay. If one were only to grow those things pronounced profitable by every one, what a limited collection he would have to be sure.

The Churches are coming to the front now, and little dinners etc. are not thought of in the burning desire to get a "better decoration than the other church will have, or than we had last year you know," for the same money. A pleasant custom that is obtaining here is to give each Sunday-school scholar a potted plant on Easter Sunday. Many of the Sunday-schools have adopted it.

Out door work has been crowded down by the bad weather, till in a week like this, between importunities to have yards and gardens fixed, trees and shrubs planted and the constant and increasing pressure of indoor work, the grower, if he be a jobber as well, has a harassing time of it and feels like changing the rhyme to read "A millstone and the human head are ever going round" for conflicting jobs and short time make him fairly dizzy. MACK.

St. Louis.

The florists report a good clip and all stock disposed of at good prices. Funeral orders continue as usual. For the season the number of weddings has been unusual, showing that St. Louisans are not all Lent observing people.

Mr. Jordan has had some very fine roses and narcissus this week. Narcissus trumpet major is now blooming in open ground.

One of the attractions in the window of the Chandler Floral Company is a fine specimen plant of Dendrobium nobile on which are 85 flowers. This firm sold a plant of the same species last week on which were 145 flowers.

The Michel Plant and Seed Company report heavy sales of the Mexican morning glory (Ipomœa palmata) of which they are sending out a handsome colored plate. This firm is propagating 10,000 dahlias, a large part of which are the three white varieties, Camelliaflora, Guiding Star and Princess Mathilde.

Mr. Joseph Cousens, late with Hugh Low & Co. of London, has been appointed superintendent of the Vanderventer Gardens, which are to be renovated.

St. Louis was visited by a heavy rain Monday, the 4th. More than three inches fell in a few hours. Many sewers were not able to carry off the water and cellars and basements were flooded. But the new system of drainage put in last year at the Mo. Botanical Garden did its work so effectually that the damage was not one tenth as great as was usually done by an ordinary heavy shower, before the walks and drains were reconstructed. Little or no damage was done to florists by the storm. Friday the north wind began to blow and during the night considerable ice was formed on standing water.

The florists who have stands at the Union Market report a good trade in potted plants. The cut flower trade has been fair to dull. All florists are looking for a brisk Easter trade. With the exception of lilies there will be stock enough to supply the demand. J. C. D.

SOME VERY fine blooms of the cornflower (centaurea) have been sent us by Mr. F. J. Wieners, president of the W. D. Allen Floral Co., Chicago, who states that they have been cutting from 50 to 100 blooms a day for the last two weeks.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a florist in a cut flower store. Good hand in making up designs. Best of references. Address H. OLSEN, 25 Fry Street, Chicago.

SITUATION WANTED—By a successful propagator and grower of roses for cut flowers and general stock. West or south. Best of references. Address X Z, care American Florist, Chicago.

SITUATION WANTED—By a first class competent single florist and gardener. Full particulars in answer must be given. Address W K, care Rud Krueger, 339 Poplar St., Philadelphia, Pa.

SITUATION WANTED—By a No. 1 grower of all kinds of greenhouse stuff, where order and system are appreciated. Only those with good houses need apply, who desire the services of a faithful employe. Good wages wanted. 22 years' experience. Address NELSON, 127 N. Clark street, Chicago.

SITUATION WANTED By a first-class florist; single; 8 years' experience in growing rose and general market stock—last three in one of the largest rose growing establishments in Boston. First-class references. Wages expected, $50 per month. JOHN PRITCHARD, care Wm. H. Elliott, Brighton, Mass.

WANTED—Good man to work in greenhouse and outdoors. Steady work to right party. Address G. HEINRICHS, Crete, Ill.

WANTED May 1st, experienced rose grower. Married man with small family preferred. Address M. care Welch Bros., 165 Tremont St., Boston.

WANTED—A practical florist looking for a good location for business, proof profits over $100 per month, home trade should address TWIN CITIES, care American Florist.

WANTED—Man with knowledge of foliage plants to work in palm houses on commercial place, $10 per week. Address JOHN BURTON, Chestnut Hill, Philadelphia.

WANTED—A strictly sober and reliable man; must be a good grower of cut flowers of all kinds; a good salesman, and fair knowledge of design work. Apply with references to R. care American Florist Chicago.

WANTED—Gardener and florist for private place. Must be competent to run greenhouse; wages $25 per month and board by the year. Would employ man and wife, if woman good cook and no children. L. O. SWOPE, Independence, Mo.

WANTED—Active man with capital to take part interest in rose, carnation and violet growing to sell at wholesale. Just about building new greenhouses for the business within street car connections on his own property. Address HORTUS, 31 Public Square, Room 7, Cleveland, O.

WANTED—A good reliable rose, carnation and violet grower in commercial place, to take charge of a range of new houses. None but a thoroughly competent and aggressive man of temperate habits need apply, and one who can furnish good recommendations. This will be a good and permanent place in a growing city and good climate. Give references and state where you have worked during the last 8 years. Address MERMET, care American Florist.

TO RENT—Greenhouses with one acre of land. For particulars apply to SARAH W. STORY, Brighton, Mass.

FOR SALE—At a bargain, a florist's business in a thriving city near St. Paul. Proof profits for 1891 over $1,300. For particulars address SELLER, care American Florist.

FOR SALE—Lot 70x170 feet, with 8 room house, plant of four greenhouses, with good spring stock, fine local trade. If combined with nursery a splendid opening. Less than 7 miles from heart of Chicago. Address Box 543, Austin, Ill.

FOR SALE OR RENT—Two greenhouses well stocked, one 18x75 and one 12x32, potting shed 18x18, six room dwelling, large barn, ¾ acres ground, on the main line P. R. R., 15 miles from Philadelphia. For further particulars apply to A M R, Devon, Chester Co., Pa.

PARTNER WANTED.

A practical man with $500 to pay for horse, wagon and other small expenses. My place contains over 9,000 square feet of glass which is now filled with roses, carnations, geraniums and other bedding plants. Being struck with paralysis last year is the only reason for taking a partner in my business. Address NEW JERSEY, care American Florist.

CLEMATIS FLAMULA.

Nice plants, 60 cents per dozen; $4 00 per hundred, prepaid by mail. Order quick.

JOSEPH BANCROFT,
Lock Box 24. Cedar Falls, Iowa.

OUR INCREASING BUSINESS

MADE

LARGER QUARTERS

absolutely necessary, and on MAY 1 we will Remove to

34 & 36 RANDOLPH STREET,

Where we will have much more room and greater conveniences.

KENNICOTT BROS.,

WHOLESALE FLORISTS,

CHICAGO, ILL.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price-list write for same
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

WHOLESALE FLORISTS
La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.
PHILADELPHIA.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
A 1 IVY LEAVES.
BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.

THE
INVISIBLE BOUQUET PIN
75 CENTS PER GROSS.
INDISPENSABLE TO THE RETAIL FLORIST.
Send for my Primer, free.
GEO. B. WILLCOX, Bay City, Mich.

FLORAL DESIGNS,
The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Wholesale Markets.

Cut Flowers.

BOSTON, April 12.

EASTER PRICES AS QUOTED IN ADVANCE.

Roses, Perle, Sunset, Gontier, Wootton	8 00
" Mermets, Brides	8.00@12.00
" Jacq	25.00
" Niphetos	6.00
" Hybrids	25.00@50.00
Harrisii, Callas	12.00@15.00
Candidums	6.00@8.00
Gladioli	10.00
Sweet peas	2 50
Spirea Japonica	3 00
Valley, tulips	4 00
Daffodils, double	4 00
Hyacinths, narcissus	4 00
Mignonette	2.00@3.00
Myosotis	2 00
Carnations	2.00@4.00
Pansies	1.00
Violets	.75
Stocks	3 00
Smilax	25 00
Adiantum	1 50
Adiantum Farleyense	20.00
Asparagus plumosus	50.00
Heath, per bunch	.50@.75
English Primroses, per dozen bunches	2 00

NEW YORK, April 12

Roses, Bon Silene	1 00
" Gontiers	2.00
" Perle, Niphetos	2.00@3.00
" Mermet, Bride, Cusin, Watteville	3.00@5.00
" Hoste	3.00@6.00
" Bennett	2.00@4.00
" La France	3.00@6.00
" Albany	3.00@6.00
" Beauties	5.00@20.00
" Jacqs	5.00@8.00
" Hybrids	5.00@30.00
Smilax	15.00@25.00
Carnations	1.00@1.25
Mignonette	2.00
Narcissus Romans, Valley, Tulips	2.00@4.00
Harrisii	5.00@8.00
Violets	.50
Adiantums	1.00
Lilac, per bunch	1.00

Market so uncertain can not quote Easter prices at this date.

PHILADELPHIA, April 12.

EASTER PRICES.

Roses, Brunners	50 00
" Baroness	30.00@50.00
" Laings, Magnas	30.00@35.00
" Beauties	30.00@35.00
" La France, Albany	8.00@12.00
" Mermets, Brides	8.00@12.00
" Jacqs	15.00@20.00
" Cusins, Watteville	6.00@8.00
" Perles, Niphetos, Gontiers	5.00@8.00
Valley	4.00@5.00
Carnations	2.00@4.00
Violets	.75@1.00
Alyssum	30
Sweet peas	3 00
Daffodils	4.00@5.00
Tulips	4.00@5.00
Harrisii	10.00@12.00
Candidums	5.00@6.00
Callas	10.00@12.00
Smilax	25.00@30.00
Adiantums	1.00@1.50

CHICAGO, April 12

EASTER PRICES.

Roses, Perle, Niphetos	5.00@6.00
" Bon Silenes	3.00@4.00
" Mermets, La France	6.00@8.00
" Bennetts, Dukes, Woottons	6.00@8.00
" Albany, Bride	6.00@9.00
" Am. Beauties	15.00@25.00
" Jacq	12.00@18.00
Carnations, long	2.00@2.50
" short	1.50@1.75
" long fancy	3.00@4.00
Romans, Valley Narcissus	3.00@5.00
Candidum, short	4.00@6.00
" long	6.00@8.00
Harrisii	18.00@20.00
Callas	15.00
Violets, Adiantum	1.00@1.50
Smilax	25.00@28.00
Bouvardia	1.00@2.00
Heliotrope	1.00@1.50

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S. PENNOCK,)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

EDWARD C. HORAN,
WHOLESALE FLORIST
34 W. 29TH ST., NEW YORK.
SUCCESSFUL SHIPPING OUR SPECIALTY.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.
Mention American Florist.

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WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

GEO. MULLEN,
WHOLESALE FLORIST,
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
(Off School St., near Parker House),
BOSTON, MASS.
Orders by Mail, Telegraph, Telephone or Express promptly filled.

WELCH BROS.
WHOLESALE FLORISTS
165 Tremont St., BOSTON, MASS.
We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. Return Telegram is sent immediately when it is impossible to fill order.

H. L. SUNDERBRUCH,
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4TH & WALNUT STREETS,
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WHOLESALE
FLORISTS.
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ST. LOUIS, MO.
A complete line of Wire Designs.

CYCAS LEAVES,
Fresh, $1.00 each.
J. C. VAUGHAN, BOX 688, CHICAGO.

ENGLISH IVY.
In 2½-inch pots, cheap.
nd for price list of Bedding plants, etc.
JOS. H. CUNNINGHAM,
Delaware, Ohio.

YOUNG BROS.,
20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

MR. MAULE is refunding money on Freeman potatoes.

MR. J. E. NORTHRUP is making a trip through the Southwest.

MR. W. B. HAYT, with the Cleveland Seed Co., is making a western trip.

FIVE THOUSAND DOLLARS is considered a good day's receipts in Philadelphia.

MR. BLANC is already actively at work on engravings for the 1893 catalogues.

AMONG the extra scarce seeds are yellow onions of all kinds, sweet corn, cucumbers and beans.

MR. JOHN LEWIS CHILDS will be a delegate to the Minneapolis Republican Convention in June.

LARGEST HOUSES in the mail business report that as yet no week has equaled that of March 7.

SECRETARY DON reports favorable prospects for an interesting meeting of the Seed Trade Association at Wethersfield in June.

MESSRS. W. ATLEE BURPEE & CO. estimate the falling off of their business during the cold weather from March 10 to 25 at $15,000.

UNPRECEDENTEDLY warm weather beginning April 1 has increased the mail trade all over the country. Local business, counter trade, has also started in briskly.

WM. HENRY MAULE is making a northwestern trip, visiting Chicago, St. Paul and other cities. Mr. M. reports his seed trade as nearly over. He considers Prize Taker onion a leader.

MR. W. ATLEE BURPEE is to be married April 30 and will sail for Italy via Gibraltar from N. Y. May 9. He is the prince of good fellows and the good wishes of every one will go with him.

VIOLETS.

Runners healthy, and well rooted Marie Louise, per thousand, $5.00.

M ROSCOE SANUDERS, S. 41th St., Aurora, Ill.

ARBOR VITÆ PYRAMIDALIS.

6 to 10 inch, 1 year $20 00 per 1000
Irish Juniper, 8 to 12 inch 1 year 20 00 per 1000
Wistaria Sinensis, 1 year 1.00 per 100

Correspondence solicited. Address

THOS. A. McBETH & CO., Springfield, O.

SPECIAL OFFER. Per 100

Var. Rose Geraniums, 2½ inch $ 5 00
Begonia Manicata aurea, 2½-inch 10 00
Begonia Rex, assorted 4.00
Bouvardia Elegans and Davisonii, root cuttings from flats 1 00

JOS. E. BONSALL & SON, Salem, O.

VERBENAS.

My Verbenas are perfectly healthy and include the Mammoths. From 2½ inch pots, $2.50 per 100; $20 00 per 1000

PANSIES AND OTHER STOCK.

Smilax, 2½-inch pots, $1 50 per 100; $15 00 per 1000.
Chrysanthemums, rooted cuttings, $2 00 per 100; $15 00 per 1000
Ampelopsis Veitchii, 3-inch pots, $5 00 per 100.

Address J. G BURROW, Fishkill, N Y.

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns

40 ACRES OF FRENCH BULBS IN CULTIVATION.

The most extensive cultivators in the South of France of

EARLY WHITE ROMAN HYACINTHS,

Lilium Candidum, Paper White Narcissus, Grandiflora, Double Roman, Incomparabilis, Aurantius double, Von Sion, Trumpet Major, Freesias, Allium, Anemones fulgens, A. Rosette, very early, and Cardinal's Hat, Amaryllis Vittata, Etc., Etc.

BENJAMIN RIMBAUD, Bulb Grower,

KNIGHT OF THE AGRICULTURAL MERIT, TOULON, VAR, FRANCE.

WILL SEND on demand THE LIST OF HIS PRICES for the aforesaid Bulbs, to be delivered free Toulon Railway Station, and also free from packing and carriage expenses on board TO NEW YORK.

IMPORT PRICES NOW READY.

HARRISII, ROMANS, FREESIAS, VON SIONS, VALLEYS, ETC.

W. W. BARNARD & CO.,

6 and 8 North Clark Street, CHICAGO.

MONEY IN GROWING MUSHROOMS

More money in them for less outlay than any other crop. Any one with a cellar or stable can raise them. Our Primer & Price-list tells the whole story. Free. Send for it. A brick of our celebrated English Mushroom Spawn mailed, post-paid, for 25c. JOHN GARDINER & CO., Seed Growers, Importers and Dealers, Philadelphia, Pa.



Gardiner's Seeds:—New Catalogue for 1892 now ready. Free. Send for it.

Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS, AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878 SAN FRANCISCO, CAL.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

TRY DREER'S GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

Mention American Florist

HARDY WATER LILIES AND LOTUS.

Egyptian Lotus (Nelumbium Speciosum), each, $1 50
Japanese Lotus (Nelumbium Nuciferum) " 1.50
Nymphæa alba candidissima 1.50
Nymphæa odorata rosea 1.00
Nymphæa Marliacea chromatella 1 50

Tropical varieties; Night blooming varieties, and other choice aquatics. Catalogues free.

WM. TRICKER, Dongan Hills, (S. I.) N. Y.

PANSIES.

Strong field grown plants, mostly in bud and bloom, from imported seed of the German Imperial Prize (we think the best strain in cultivation), $1 25 per 100; $10 00 per 1000, delivered at the Express office here on receipt of price

C. F. OSBORNE & BRO.,

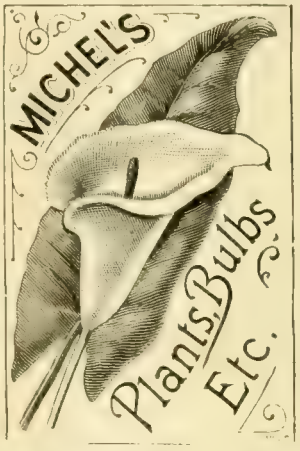
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FARFUGIUM GRANDE.

FIRST-CLASS PLANTS,

$8.00 PER HUNDRED.

TILTON BROTHERS, AURORA, ILL.



Write for wholesale list.

MICHEL PLANT AND SEED CO., ST. LOUIS, MO.

ASTER SEED.

Just received from a well-known Specialist.

		trade pkt.	oz
TRUFFAUTS	Half Dwarf White	35c	$2.25
	Pink	35c	2.25
	Scarlet	35c	2.25
	Violet	35c	2.25
	Choice mixed	30c	2.00
BALSAM	White Perfection	30c	1.25
MUSA ENSETE, 10 seeds 25c; 100 seeds $1.50			

HENRY F. MICHELL,

(Late with HENRY A. DREER).

1018 Market Street, PHILADELPHIA, PA.

ORCHIDS.

The Finest Stock in the World.

SANDER'S, ST. ALBANS, ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Orchids.

Established and Fresh Imported—Specially Cattleyas; very useful for cut flowers, at greatly reduced prices.

Best quality of Orchid Peat. Write for price list.

FREDERICK MAU,

P. O. Box 322. SOUTH ORANGE, N. J.

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DAFFODILS, NARCISSUS, LILIES,

AND ALL OTHER BULBS FOR FORCING, IN FINEST QUALITY, AT REASONABLE RATES.

If any of our friends have not received a copy of our Catalogue of 1892, should write for one at once.

Please ORDER ON RECEIPT of our Catalogue.

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, HOLLAND.



BULBS.

Closest IMPORT rates f. o. b New York City can be had from our N. Y. office, 12 Barclay St. We request the opportunity of estimating for shipment from New York.

J. C. VAUGHAN,

And 12 Barclay Street, NEW YORK. **CHICAGO.**

KAE SHEAN CO.,

Growers of CHINESE SACRED LILY,

HONG KONG.

Goods can be obtained at the following houses:
John L. Childs.....Floral Park, Queens Co., N. Y.
Peter Henderson & Co. 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R. Pierson.....Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.

To the readers of the AMERICAN FLORIST:

By acknowledging that you saw this in the AMERICAN FLORIST I will for the next two weeks from the date of this paper, send you for $5.00, 1000 Rooted Coleus Cuttings of at least 25 kinds; the selection of sorts to remain with us. No cull stock. Cash with order.

J. E. FELTHOUSEN, Florist, Schenectady, N. Y.

GEO. W. MILLER,

WHOLESALE * FLORIST,

1748 N. Halsted Street,

Chicago, Ill.

ROSES AND PALMS A SPECIALTY.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

DUTCH BULBS.

JOHN BARTH BOS,

OVERVEEN, near Haarlem, HOLLAND.

ESTABLISHED 1868.

Large grower of Hyacinths, Tulips, Narcissus, Crocus, Lilies, etc.

Before ordering bulbs, write me for a catalogue.

LILIUM HARRISII, ETC.

We are now booking orders at the following low prices:

		Per 100	Per 1000	Per 10,000	Per 50,000
LILIUM HARRISII,	4 to 5 inches circum	$ 2 50	$19 00	$17 00	$16 00
	5 to 7 " "	3.25	25 00	24.00	22 00
	7 to 9 " "	5.50	48 00	47 00	46 00
	9 to 11 " "	10 00	90.00		
	Guaranteed full measurement.				
LILIUM LONGIFLORUM, Bermuda grown, at same rates.				Per 1000	Per 1000
" **CANDIDUM,** fl. simples, st ong.		3 50	25 00		
ROMAN HYACINTHS, white, 4 inches circum		2 00	13.00	12.00	11.00
" " white, 4½ to 5½		3 00	20 00	19 00	18 00
" " white, 5 to 6		3 50	25 00	24 00	23 00
DOUBLE ROSY, rosy, tendre, selected		2 50	16 00	15 00	
ITALIAN, blush white, selected		2 75	19 00	18 00	
BLUE ROMAN, selected		2 75	18 00		
TOTUS ALBUS (Paper White) Narcissus, selected		1.25	7 00	6 50	
" " gr. fl. Narcissus, selected		2 00	12.00	11 00	
DOUBLE ROMAN NARCISSUS, selected		1.50	10.00		
FREESIA REFRACTA ALBA, selected		1.25	8.00	7.50	
ORNITHOGALUM ARABICUM, selected		2.50	20 00		
TRUE BERLIN VALLEY PIPS			9 00	8 00	7.50

Half quantities at same rates.

HULSEBOSCH BROS., Bulb and Plant Growers,

OVERVEEN, near Haarlem, HOLLAND.

Address for the U. S., A. HULSEBOSCH, P. O. Box 3118, NEW YORK CITY.

R. VAN DER SCHOOT & SON,

HILLEGOM, = HOLLAND,

Largest Growers of

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.

HEADQUARTERS FOR HIGH GRADE FORCING BULBS.

Wholesale Importers should write us for Prices.

OUR NEW TRADE LIST NOW READY.

G. W. Miller & Son,

COLLECTORS, GROWERS AND DEALERS IN CURIOUS

CACTI PLANTS,

HAVANA, TEXAS.

ROMAN HYACINTHS, PAPER WHITES,

Lilium Harrisii, Berlin Pips Lily Valley, Tuberoses, Azalea Indica, etc.

PRICES QUOTED and ORDERS BOOKED FOR SUMMER AND FALL DELIVERY.

C. H. JOOSTEN, Importer,

3 COENTIES SLIP, NEW YORK.

HARRISII OR LONGIFLORUM

PLANTS WANTED.

WISCONSIN FLOWER EXCHANGE,

131 Mason Street, MILWAUKEE, Wis.

VINES.

	Per 100
Allamanda Hendersonii, 2½-inch pots,	$4.00
" " 4-inch pots,	8.00
Jasminum Grand Duke, 2½-in. pots,	4.00
" " " 4-inch pots,	10.00
" Multiflorum, 2½-in. pots,	4.00
" " 4-inch pots,	6.00
Cissus discolor, 2½-inch pots,	5.00
" " 3½-inch pots,	8.00

The above named plants are strong, well-rooted and healthy.

FRANCIS MORAT'S SONS, Florists.

No. 606 Fourth Ave., LOUISVILLE, KY.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

March Chrysanthemums.

In reference to an article in issue of March 24 headed "March Chrysanthemums," I would like to say a few words.

It is not so rare to see chrysanthemums flower during the winter and spring months, especially when kept in a temperate house (not lower than 50°), for stock. Plants grown in 5 or 6-inch pots, flowered in November and cut back, will flower again very freely in about two or three months, and if not fed well with liquid manure or repotted to give them a good start they will give you more flowers than cuttings.

When propagated by cuttings if the lower eyes are rubbed off you will get very few suckers and when the plant is cut back in the fall it will break along the old stem and the strongest shoots will give you flowers almost as fine as the first ones.

We had quite a number in 5-inch pots last fall and kept them in a temperature of about 50°, but did not need them for cuttings therefore did not bother much with them. Quite a number flowered in February and March while some are in bud now. Among them were Sugar Loaf, Frank Wilcox, James S. Lewis, Belle Paule, Mrs. T. H. Spaulding and Mrs. Senator Hearst. The flowers were not very large but of good shape and color. Cuttings were put in June last.

Mr. Newby's seedling "Alice Newby" may be the advance agent or forerunner of a new race of chrysanthemums, "The ever-flowering chrysanthemums," which I think we will have in time.

Now about the name. By all means do not change the name "chrysanthemum." Please let good enough alone.

Washington, D. C. P. G.

For Spring Potting.

The best time to pot off small Palms and Foliage Plants is NOW, and they will then be ready to fill houses with for summer, after bedding plants are cleared. Cheap plants as follows:

	Per 100
Aralia Sieboldi, 2-inch pots	$10.00
Pandanus utilis, 2-inch pots	10.00
Areca lutescens, 2-inch pots	10.00
Dracæna terminalis, 2-inch pots	8.00
Latania borbonica, seed boxes	4.00
Cocos Weddelliana, seed boxes	8.00
Cocos plumosa, seed boxes	8.00
Asparagus plumosus, 3½-inch pots	40.00
Begonias, tuberous, single, finest flowers, distinct colors	10.00
Begonias, tuberous, double, very fine	20.00

(Begonias are started, but can be mailed for next three weeks.)

JOHN H. LEY,
Tropical Nursery, Anacostia. WASHINGTON, D. C.
Mention American Florist.

ROOTED CUTTINGS.

ALTERNANTHERA P. Major and Aurea Nana, 50 cts. per 100.

AGERATUM White Cap and Cope's Pet, 50 cts. per 100, by mail prepaid.

OTHER STOCK LATER.

Don't order more PETUNIAS and VERBENAS until quoted here.

S. O. STREBY,
Lock Box 77. *UPPER SANDUSKY, OHIO.*

ROSES. Varieties for Winter Forcing.

Extra Stock. Our Pots are fully up to Sizes Stated.

	2½-inch. Per 100	3½-inch. Per 1000	3½-inch. Per 100
AMERICAN BEAUTY, grandest forcing rose	$ 8 50	$80.00	$15.00
AUGUSTINE GUINOISEAU, the pearl pink White La France	8.00		
BON SILENE, carmine	5.00		
CATHERINE MERMET, pink, finest form	4.50	40.00	10.00
DUCHESS OF ALBANY, deep rose	5.50		
LA FRANCE, standard pink	4.50	40.00	10 00
MADAME HOSTE, creamy white	5.00		
MADAME P. GUILLOT, deep creamy petals reflexed and bordered deep pink	8.00		12.00
NIPHETOS, purest white	4.50	40.00	10 00
PAPA GONTIER, red, very fine	4.50	40 00	10 00
PERLE DES JARDINS, best yellow	4.50	42.50	10 00
SAFRANO, old favorite	4.50		
SOUVENIR DE WOOTTON, crimson	6.50	60 00	12 00
SUNSET, tawny yellow, shaded apricot	4.50	40.00	10 00
THE BRIDE, most popular white	4.50	40 00	10.00
W. F. BENNETT, deep red	8.00		
CLOTILDE SOUPERT	5.00		

BEDDING ROSES FOR SPRING PLANTING.

Agrippina, Bon Silene, Bride, Catherine Mermet, Comtesse La Barthe, Douglass, Devoniensis, Etoile de Lyon, Francisca Kruger, Grace Darling, Hermosa, Letty Coles, Madame Bravy, Madame Falcot, Madame Margottin, Marie Guillot, La France, M. Van Houtte, Malmaison, E. Metz, The Queen, Niphetos, Safrano, Madame Welche, Marie Lambert, Polyantha sorts, and others.

BEDDING ROSES, from 2-inch pots, per 100, $4.00; our selection, per 1000, $35.00.

HARDY ROSES.

	Per 100
H. P. ROSES, assorted, 18 to 24 inches	$12 00
MOSS ROSES. Plenty of pure white	12.00
CLIMBING ROSES, 1 year, assorted	10 00

J. C. VAUGHAN, P. O. Box 688, CHICAGO.

Roses. Orchids.

Mermets, Brides, Papa Gontier and Hoste, strong plants from 2-inch pots, $4.00 per hundred.

SEND STAMP FOR SPECIAL ORCHID BARGAINS.

WANTED—H. P. Roses and Asparagus Plumosus. Will exchange for above.

DAVID CLIFFE, Florist, Germantown, Philadelphia, Pa.

LILIES FOR EASTER.

HARRISII, LONGIFLORUM, CANDIDUM, HYDRANGEAS, LATANIA BORBONICA, DRACAENA INDIVISA, GERANIUMS, ETC.

Send for Prices.

WILLIAM A. BOCK,
NORTH CAMBRIDGE, MASS.

THE NEW VIOLET
R. GARRETT,

Is a sport from Count Brazza, of a light blue color, very large and very double; a strong, healthy grower.

PLANTS READY APRIL 1st.

Parties in and west of Chicago will please leave their orders with J. C. VAUGHAN, box 688, Chicago.

Price, $12.00 per 100; $100 per 1000; $4.00 per dozen.

All orders must be accompanied by cash.

J. COOK,
318 N. Charles Street, BALTIMORE, MD.

R. J. MENDENHALL,

The Pioneer Florist of the Northwest.

—ALL KINDS OF—

CUT FLOWERS IN SEASON,

At Retail and Wholesale

And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist. Send for Catalogue.

R. J. MENDENHALL,
MINNEAPOLIS, MINN.

CAMELLIA JAPONICA
AND
CROZY'S NEW CANNAS.

1000 CAMELLIA JAPONICA, 3-in. pots five named good varieties.
1000 CROZY'S NEW CANNAS in 15 named varieties. 5000 Ehmanni, Noutoni, La Tour de Grand Roude, etc. In quantity to suit purchaser.

E. S. NIXON & SON, Chattanooga, Tenn.

ROSES.
AND OTHER SURPLUS STOCK.

	Per 100
Nice stock of Monthlies, all good varieties, 2½-inch, strong	$3.00
H. P's, 1½-inch, strong, } Mosses, 1½-inch, strong, } Hardy Climbers, 1½-in., strong, }	our selection. 3.50 4.00 3 00
Ivy Geranium Jean d' Arc	4.00
" " Count Horace, Florens, Gallilee	3.50
Zonal, good asst. single and double	2.50
" Souv de Mirande	4 00
Lemon Verbena, 2½-inch	3.50
Nepeta glecoma var., 2-inch	2 00
Feverfew Little Pet	2 00
Vinca, 1½ inch, strong	2 00
Abutilon Eclipse	3.50
Anthemis	3 00
Lantanas, 6 varieties strong	2 50
Moon Vine (Ipomœa grandiflora)	3 00
Ampelopsis Veitchii, 2½ inch	4 00
Pteris Argyrea, 2-inch, strong	5.00

THOS. A. McBETH & CO.,
SPRINGFIELD, O.

Mme. Pierre Guillot,

THE NEW PINK ROSE.

Orders booked now for delivery June 1st. Strong, selected stock, from 3-in. pots, at $8.00 per 100.

All the leading forcing Roses first-class stock only can be obtained during the season of

M. A. HUNT, Terre Haute, Ind.

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:

25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other

PLANTS FOR FORCING AND DECORATING.

Address **P. OUWERKERK,**
P. O. Box 1845, NEW YORK CITY
Catalogue on application.

ROSES.

The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100, Wuban, $6 00; Duchess of Albany, and Meteor, $5 00 per 100; La France, Bride, Sunset, $5.00 per 100; Perle, Mermet, $4 50; Bennett, $8 00 per 100.

Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

C. A. SMITH FLORAL CO.,
77 South Seventh St. Minneapolis, Minn.

ROSES.

As I must make room I will sell **50,000** of the best greenhouse and bedding Roses, in perfect condition; fine young plants from 2 and 2½-inch pots, at **$30 per 1000.**

The following varieties to select from:

Queens Scarlet	Souv. de Victor Hugo
Clotilde Soupert	Paquerette
Papa Gontier	Souv. de Wootton
Safrano	Marie Van Houtte
Niphetos	Pierre Guillot
Solfaterre	Perle d'Or
Mignonette	Geo. Pernet
Catherine Mermet	Etoile de Lyon
Gloire de Dijon	Luciole
Mlle. Frances Kruger	Bon Silene
Marie Guillot	White Bon Silene
Mme. Lambert	Hermosa
Mme. Jos. Schwartz	Comtesse de Labarthe
Mme. Scipion Cochet	Comtesse Riza du Parc
La France	

Also the following Hybrids at **$40 per 1000:**

Anna de Diesbach	Magna Charta
Giant des Battles	Alfred Colomb
Coquette des Blanches	Ulrich Brunner
Queen of Queens	Dr Hogg
Mme. Masson	Paul Neyron

I also have large plants of the above and other varieties in bud and bloom, in 4, 5 and 6-inch pots, at from $15.00 to $25.00 per 100.

The best and newest of Chrysanthemums, Carnations, and general greenhouse stock.

Safe arrival guaranteed of all plants shipped by Express.

Trade List mailed on application.

JACOB SCHULZ, Louisville, Ky.

ROSES.

WE STILL HAVE

50,000 ROSES in best assortment for immediate Delivery, ready for larger size pots, $30 per 1000, in fine assortment, our selection.

SEND LIST TO BE PRICED.

A very large stock of **Bedding Plants** at lowest wholesale prices, in all sizes.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

ROSES.

From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and Duchess of Albany, at $5.00 per 100; Meteor, at $6.00 per 100; American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

CHRYSANTHEMUMS,
leading varieties, 2½-inch pots, $5 per 100.

We are headquarters for the Meteor and Climbing Perle des Jardins.
ALL FINE HEALTHY STOCK.

JOHN HENDERSON CO.,
Flushing, N. Y.
Mention American Florist.

YOUNG ROSES.

JACQS, LAING, MAGNA CHARTA, LUIZET, 3-inch pots.
MERMET, BRIDE, PERLE, GONTIER, WOOTTON, 2½-inch pots.
FINE PLANTS. WRITE FOR PRICES.
THE FLORAL EXCHANGE,
614 Chestnut St., Philadelphia, Pa.

ROSA CANINA STOCKS

SCHULTHEIS BROS.,
STEINFURTH, NAUHEIM, HESSE GER.

1000 extra choice, 30s, 1 year seedlings.
10,000 plants, extra choice 250s, 1 year seedlings.
1000 plants, 1st choice, straw thick, 12s, 1 yr. seedlings.
10,000 plants, 1st choice, straw thick, 115s, 1 yr. "
Cash with order. Send via Bremen Loyds.

Always mention the American Florist when writing to advertisers.

200,000 ROSES.

STRONG, 2½-INCH POT PLANTS.

	Per 100		Per 100
Mme. Pierre Guillot	$5.00	Meteor	5.00
Waban	4.00	Crown Princess Victoria	5.00
Mme. Hoste	4.00	Mme. Elie Lambert	12.00
The Bride	4.00	Triumph de Pernet Pierre	12.00
Mermet	4.00	Climbing Perle des Jardins	10.00
Niphetos	4.00	Clotilde Soupert	4.00
Wootton	5.00	Papa Gontier	4.00
Perle des Jardins	5.00	J. B. Varrone	8.00

General Collection Everblooming Roses.

Aline Sisley,	La Marque,	Mme. Bravy,
Bon Silene,	M. Niel,	Mrs. DeGraw,
Coquette de Lyon,	Mme. Alfred Carrier,	Mme. Jean Sisley,
Cornelia Cook,	Marie Lambert,	Princess de Sagan,
Countess Anna Thun,	Mme. de Vatry,	Queen's Scarlet,
Duchess de Brabant,	Mme. Joseph Schwartz,	Souv. de Mme. Pernet,
Dr. Grill,	Mme. Welche,	Safrano,
Etoile de Lyon,	Marie Van Houtte,	Souv. de Dr. Passot,
Hermosa,	Mme. Etienne,	Souv. d'un Ami,
Isabella Gray,	Mrs. James Wilson,	Solfaterre,
Joseph Metral,	Marie Guillot,	Souv. de Malmaison,
La Pactole,	Mme. Lambard,	The Queen,
La Princess Vera,	Mme. Angele Jacquier,	Therese Lambert,
Luciole,	May Rivers,	Wm. Allen Richardson,

And other leading sorts, $4.00 per 100; $30.00 per 1000.

		Per 100
HYDRANGEAS,	Hortensis and Otaksa	$4.00
"	Stellata Fimbriata Alba	4.00
"	Ramis Pictis (Red Branched)	6.00
"	Paniculata Grandiflora, 4 to 6 in.	4.00
French Cannas in	12 fine varieties	12.00
" " in	10 newer sorts	20.00
Begonia Countess Louise Erdody		10.00
" Louise Closson		8.00

NEW GERANIUMS, CHRYSANTHEMUMS, CARNATIONS AND A COMPLETE ASSORTMENT OF GREENHOUSE PLANTS AT LOWEST PRICES.

CATALOGUES FREE.

THE STORRS & HARRISON CO.,

PAINESVILLE, Lake Co., OHIO.

My old time Specialty, the Rose MME. CUSIN, per 100 plants, $5.50.

Also **THE BRIDE**.....per 100 $5.50 | **THE WABAN**.....per 100 $ 8.00
MME. WATTEVILLE, " 5.50 | **AMERICAN BEAUTY**..... " 10.00

Also **BRIDESMAID,** SUPPLY LIMITED.

From 2-inch pots:	"This is the most beautiful pink rose known."	From 3½-inch pots.
12 plants.....$ 9.00	John N. May.	1 plant.....$ 1.50
50 plants..... 25.00	M. A. Hunt.	12 plants..... 15.00
100 plants..... 40.00		25 plants..... 25.00

SUNNYWOODS GREENHOUSES. **FRANK L. MOORE, Chatham, New Jersey.**

ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

FRANCES B. HAYES, HYBRID BOURBON. **AND OAKMONT,** HYBRID REMONTANT.

Extra fine Selected Stock for the Trade.

JOHN N. MAY, Summit, N. J.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

News Notes.

LAWRENCE, KAN.—No damage of any consequence to greenhouses here during the recent storm.

ATCHISON, KAN.— R. J. Groves lost about 300 lights of glass in the recent storm. No serious damage to other greenhouses is reported.

OSKALOOSA, IA.—The Kemble Floral Co. has commenced work on a new addition of about 10,000 feet of new glass. The glass will all be double thick.

BROOKLYN, N. Y.—Mr. M. T. Keenan, the Myrtle ave. florist, made a fine display of orchids and blooming plants at his "Easter Opening," last Monday, Tuesday and Wednesday.

COUNCIL BLUFFS, IA.—Mr. L. A. Casper has sold his florist business and greenhouse establishment to Mr. J. F. Wilcox, who will continue the business. The consideration was $32,000.

CONCORD, MASS.—Henry L. Shattuck, a prominent floriculturist of this town, died on April 4th. He has been for many years Superintendent of the famous Sleepy Hollow Cemetery where Emerson and other famous men of the old town lie buried.

BOONE, IA.—It was a high old wind but only slight damage was done though every minute we expected the whole outfit to go. Had quite a sharp hail for a short time. It was about the size of buckshot, but it struck the glass so slantingly that only weak panes were broken.

OMAHA, NEB.—The Omaha Florists' Club has been organized with officers as follows: L. A. Casper, president; A. B. Stewart, vice-president; A. Donaghue, Jr., secretary; W. H. Foster, treasurer; trustees, Alex Rose, J. Peterson, J. Hess. The club will give a chrysanthemum show next November.

DESMOINES, IA.—The recent storm did some damage by breaking glass and blowing off ventilators, but the weather was warm and no rain or hail came with the wind here. Probably $500 would cover all damage to greenhouses in this city. The storm of March 9 and 10 did quite as much damage, as some stuff was frozen in poorly heated houses.

KANSAS CITY, MO.—In the recent storm R. S. Brown & Sons suffered more loss than any other florist here. The wind blew several hundred lights of glass out of their houses and the top of one of their chimneys, 40 feet high, was blown over on to one of the houses, doing about $100 worth of damage. Probst Bros. lost about 200 lights of glass, Payne some, N. S. Griffith, of Independence, a few. J. P. Coen, of Lexington, lost some 500 lights by hail. It was the worst wind we have had in years. All the greenhouses lost more or less.

A SOLID ACRE OF HARDY PINKS.

New Mound Pink best old fashioned garden or border pinks, large and fine stock of Sea Pinks, (Armeria Laucheana)

Wachusett Blackberry, Gooseberry bushes, Rhubarb, Asparagus, large Apple Trees, Strawberry plants, etc. Address

THADDEUS HALE, South Byfield, Mass.

Send 25c for sample Rooted Cuttings of each of my

NEW YELLOW COLEUS,

McGowan's Yellow and Beauty of Orange,

Price, 60 cts per dozen; $3.50 per 100

JOHN McGOWAN, - Orange, N. J.

ROSE GERANIUMS, Spider Lilies, Crinums,

Florida Gray Moss, and Rustic Baskets to exchange for what we need

MRS. N. E. WESTGATE & SON, Houston, Texas.



TUBEROUS BEGONIAS, Seeds and Bulbs.

Our own grown Superior Strains.

TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

TESTED SEEDS of VICTORIA REGIA and all other WATER LILIES.

FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

ROSE HILL NURSERIES. **SIEBRECHT & WADLEY, New Rochelle, N. Y.**

Mums, Chrysms, Chrysanths, Chrysanthums, Chrysanthemums.

YOU PAY YOUR MONEY AND YOU TAKES YOUR CHOICE.

Strong young plants from 2-inch pots, at $3.00 per 100. Large and fine assortment, embracing pretty much all the good ones:

Boehmer, Jessica, Kioto, W. W. Coles, V. H. Hallock, Hardy, Violet Rose, Puritan, Canning, L'Angelus, Etc., Etc. Full list on application.

ELSIE, the queen of the market. Those who grow plants for market sales should stock heavily with this. No other sort will yield you as good returns.

Cordylines in variety	$5.00 per 100	Solanum jasminoides	$3 00 per 100
Honeysuckles, Halliana	8.00 per 100	Holt's Mammoth Sage, ex. strong	3 00 per 100
Musa Ensete	20.00 per 100		

E. M. MITCHELL, Port Hope, Ontario, Canada.

Robert B. Young & Co.

AUCTIONEERS OF

PLANTS, BULBS,

SHRUBS, ORCHIDS, ETC.

205 Greenwich St., NEW YORK.

OUR SALES

— OF —

Ornamental and Flowering Plants

Will take place on

Tuesday and Friday of each week.

Special days have been set apart for the sale of **Orchids.**

CATALOGUES ON APPLICATION.

Mention American Florist.

CARNATION PLANTS.

From pots and flats. Cold grown stock. No carnation rust.

PANSIES	$1 co per 100
GERANIUMS, 2 inch	2.50 per 100
" 4-inch	8.00 per 100
FUCHSIAS, 2-inch	2.00 per 100
" 4-inch	7 00 per 100
BEGONIA METALLICA, 4 inch	1.50 a doz.
ALYSSUM COMPACTA, 2-inch	2 00 per 100
DAISY SNOWFLAKE, 4 inch	6 co per 100
PYRETHRUM, 4-inch	.75 a doz.
CINERARIA MARITIMA, flats	1.50 per 100
LOBELIA CRYSAL PALACE, flats.	1 50 per 100

Cash with order.

THE COTTAGE GARDEN,

EAST MORICHES, N. Y.

FOR SALE OR EXCHANGE.

A few hundred Double Fringed Petunias, strong, 2 inch pots, per 100 $4.00.

Rooted Cuttings of same, by mail, per 100 $1.25.

A few thousand Alternantheras, best red and yellow, per 100 $2.50; per 1000 $20.00.

Achillea The Pearl, per dozen, by mail, $1.25.

Rooted Cuttings of same, per 100 $1.00.

Will exchange for Pearl Tuberoses, Gladiolus Bulbs, or young Rex Begonias and Ve benas, or good young roses.

C. G. NANZ, Owensboro, Ky.

WE TELL THE **TRUTH** about Seeds. We will send you Free our Seed Annual for 1892, which tells THE WHOLE **TRUTH.** We illustrate and give prices in this Catalogue, which is handsomer than ever. It tells NOTHING BUT THE **TRUTH.**



Write for it to-day. (P. O. Box 1086)

D. M. FERRY & CO., Detroit, Mich.

ROOTED CUTTINGS

COLEUS. 30,000 in sand, well rooted, ready to ship on receipt of your order: Verschaffeltii, Golden Verschaffelt i, Golden Bedder and nine other kinds, 75 cents per 100; $6.00 per 1000.

MUMS. J. Thorpe Mrs. Hardy, Ada Spaulding, L. Boehmer, L. Canning, Elaine, Georgeous, Puritan, Kioto, Marvel, Mme. Lean, L. B. Bird, Excellent, Mrs. Fottler, E. G. Hill. 100 rooted cuttings of these varieties, equal quantity of each, $1 35 by mail.

CASH OR C. O. D.

SEND FOR LIST.

S. B. FIELD, Roselle, N. J.

Please mention American Florist.

Chrysanthemums.

ROOTED CUTTINGS, $2.00 per 100: E. G. Hill, Lincoln, Kioto, L. Canning, Mrs. A. Hardy, Belle Hickey, L. Bird, Mrs. Fottler. $3.00 per 100 in 2-inch pots.

C. E. WELD, Roslindale, Boston, Mass.

Tuberous Begonias.

Single mixed, per 100 $2 50.

Separate colors, " 3.00.

READY NOW.

No double ones for the present.

BRAUER & RICHTER, McConnelsville, O.

CARNATION
GOLDEN TRIUMPH.

A Seedling of 1888. Makes a fine plant and gives beautiful flowers.

Also a pink Carnation named "**DORINDA,**" a seedling of 1888—one of the best.

Catalogue is now ready. Send for it.

R. T. LOMBARD,
WAYLAND, MASS.

FIRE YOUR ORDERS IN FOR AURORA

And other stock. I have the cleanest, healthiest cuttings I have ever had, mostly plants established in soil, at the same price as rooted cuttings in sand.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

PURITAN.
NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:

Rooted Cuttings.....$8 per 100; $70 per 1000
From 2¼-inch pots, $12 per 100; $100 per 1000.

Send for catalogue with full description of this and other varieties.

WOOD BROTHERS, Fishkill, N. Y.

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN,** besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

DO YOU GROW
CARNATIONS?

We have Ben Hur, Golden Triumph, Puritan, Aurora, Pearl, Grace Darling, Silver Spray, Tidal Wave, Mrs Fisher, Lizzie McGowan, Daybreak, Nancy Hanks and seventy other varieties. Send for trade list.

GEO. HANCOCK. Grand Haven, Mich.

30,000 ROOTED CUTTINGS.

CARNATIONS
NOW READY.

Send for Price List.

I. LARKIN,
TOUGHKENAMON, CHESTER CO., PA.

CARNATION
MRS. FISHER.

Extra strong plants.....$4.00 per 100
Rooted cuttings..... 1.50 per 100

BROWN & CANFIELD,
SPRINGFIELD, ILL.

CARNATIONS.

Send for trade list of ROOTED CUTTINGS.

J. J. STYER, CONCORDVILLE, PA

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GET MY LAST OF THE SEASON'S PRICES. ‡‡‡‡ A GENERAL ASSORTMENT FOR APRIL DELIVERY.

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The new Fancy Coleus is a gem. Fine color and foliage. Pot plants, 6 for $1.

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THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

—NO RUST OR MILDEW.—

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Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

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CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
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ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

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In 5-in. pots ready to bloom, $2 per doz.

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Fine blooming plants, 5-in. $3 per doz.

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Fine blooming plants, 5-in. $2.50 per doz.

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Verbenas
FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 3.00	$25.00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	2.50	22.00
" " Rooted Cuttings	1.00	8.00
Lemon Verbenas, 1 year old, strong	6.00	

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Coleus, old standard and new fancy sorts	1.00	8 00
Feverfew (Little Gem), extra strong	2.00	15.00
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Begonias, assorted, fine	2 00	
Gazenias, splendens and variegata	2.00	

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FISHKILL, N. Y

50,000
ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.

Also an unlimited quantity of pips of the above varieties. Send for price list.

JOSEPH RENARD, Unionville, Chester Co., Pa.

AURORA.
Winner of the Ladenburg Cup for best pink

CARNATION
of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

Send for general price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

Mention American Florist.

Rooted Carnations.

	Per 1000	Per 100
HINZE'S WHITE	$10 00	$1.25
PORTIA	12 50	1.50
GRACE WILDER	12 50	1.50
SILVER SPRAY	12 50	1.50
LAMBORN	15.00	1.75

Cuttings put in Jan. 1, on Feb. 8 **99 per cent.** were well rooted.

DE WITT BROS.,
Cash with order. **BRISTOL, PA.**

ROOTED
VERBENA CUTTINGS.
FREE FROM RUST. WARRANTED CLE-N. A No. 1.
$8.00 per Thousand.

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Verbenas Cheap.

This offer will not appear again. Stock plants, 3½-in. pots, clean and healthy, $2.00 per 100; $15.00 per 1000.

Address **J. G. Burrow,**
FISHKILL, N. Y.

CARNATIONS.

Rooted Cuttings, ten leading varieties, $1 per hundred; $8 per thousand.

Address THOS. A. McBETH & CO., Springfield, O.

The Nursery Trade.

Trade Notes.

The warm weather the first week in April has made exciting times for nurserymen, causing every planter in the country to become almost distracted because everybody cannot be waited upon at once. Such spells occur every year, followed by snow storms or hard freezing, which gives anxiety of another nature.

I can remember many snow storms the first of May, also with very cold weather at Rochester, N. Y. In most cases the frost is seldom out of the ground the first week in April, as it is at present. The roads are settled, nursery stock is accumulating at the nursery grounds and the greater part of the packing will be done within the next few weeks.

People not acquainted with the nursery business will find it difficult in sympathizing with the nurserymen at this season of the year. He must stock up with everything to a considerable extent, and everything means a gathering in from almost every part of the world, therefore people who are wondering why the orders sent to the nursery have not been filled sooner should have compassion for the nurseryman.

The low price prevailing for fresh fruit for the past year is somewhat discouraging to planters, therefore there is likely to be a surplus of some kinds of stock. Orders for pears and plums are not so numerous as last year.

Nurserymen who have been employing agents are left with some surplus stock on hand, indicating that agents have not sold quite up to their former record.

There are few things more uncertain than the run of trade with the nurserymen. One year the run may be on Bartlett pear, Baldwin apple or Lombard plum; enough of these varieties can hardly be secured to fill orders. Next year the nurseryman stocks up heavily with these varieties and finds the orders have fallen away one-half, for reasons beyond his control, and he is left with a large surplus. The next year he is more cautious. This is the way the trade runs one year with another.

In some cases reasons may be assigned for this change of view and at other times it is unaccountable and yet, taking one season with another, the amount of nursery products sold will not vary much, what is lost in one item being made up in another.

Many nurserymen are laid away for the long sleep as the result of the strain put upon them at such seasons as this. It is a trying business, straining the toughest constitution, and yet there are very many pleasant things about it. On the whole it is a profitable pursuit. There is this satisfaction about it—whenever an honest nurseryman fills an order he knows he is doing the purchaser a good service. Money invested in nursery stock is well invested. CHAS. A. GREEN.

CINCINNATI.—The Fischer Nurseries, Walnut Hills, have been purchased by a syndicate for a consideration of $100,000, and the land will be sub-divided into building lots for residences.

SAN FRANCISCO.—Meserve & Son, the Pomona nurserymen, will attempt to obtain damages for the cargo of Tahiti orange trees burned by the Horticultural Commission.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Sherwood Hall Nurseries.

TIMOTHY HOPKINS,

MENLO PARK, San Mateo Co., CALIFORNIA.

STANDARD VARIETIES OF

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By the 1,000 or 10,000.

WESTERN AND PACIFIC COAST TRADE PARTICULARLY SOLICITED.

Native Trees, Shrubs, Palms, Ferns, Etc.
Cut Flowers shipped to distant points.

SWEET PEA SEED by Pound or Ton. Contracts for Future Delivery.

CATALOGUE FREE. WHOLESALE PRICES ON DEMAND.

LAST CALL.

In order to make short work of what stock of the following still remains on the place we make the following prices, good till **April 24;** if order is received after that date prices will be the same as in FLORIST of March 24, subject to being unsold:

	Per 100
Dracæna australis, 18 to 24 inches high	$18.00
" " 24 to 26 inches high	35.00
Dahlias, single roots	2.00
" clumps	6.00
Tuberous Begonias	5.00
Hibiscus Grandiflora, 2½ and 3-inch pots	4.00
English Ivy, 18 to 36 inches	5.00
Clematis, best varieties, 8-inch pots	40.00
Echeveria rosea, 2 to 4 inches diameter	3 00
Hydrangea Otaksa, 6 inch pots	15 00
" Thos. Hogg, 6-inch pots	15.00
Roses, mixed sorts, 3 to 5-inch pots	5.00
Cyclamen giganteum, 5-inch pots	12.00
Marguerites, large white, bushes 2½ to 3 feet high	12 00
Callas, 5-inch pots	12.00

For other stock not enumerated in the above list, also Rustic Vases, Iron Vases and Window Boxes, see FLORIST issue of March 24.

Special offer for Easter, see FLORIST issue March 31.

ADIANTUM CAPILLUS VENERIS—The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.

Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it has many aliases. If you are short of room now we will book your order and ship any time up to May 15th. **Price, strong plants, $8.00 per 100.**

For bargains in Plants, see issue of March 24.

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THE BEST ORCHID PEAT,

In large or small quantities, per barrel or Car load.

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References: Geo. Savage, Rochester, N. Y. Alfred Dimmock, Young's Auction Room, 205 Greenwich street, New York.

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fresh cut, fine fronds, at $1.00 each, net cash. Natural, prepared to retain their fresh appearance, in four sizes, at 25, 40, 50 and 60 cts. each; quite a reduction if bought by the original package of ten.

Satin Bows

for funeral or cemetery pieces, in plain or embossed style (flower pattern) with gold or silver inscription "At Rest", edged with gold or silver fringe to match, in assorted patterns and three sizes, at 45, 60, 75 cts. and $1 each.

Capes and Immortelles

fresh crop Cape Flowers, prime white, in two grades, AA at $1.10, A at 90 cts. the lb., or $1 and 80 cts. net cash.

French Immortelles at $3 00 the dozen for natural yellow; $3.60 for white and other colors, less ten per cent. for cash.

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All Requisites for store or greenhouse, compare our Trade List of last Fall; also Special list for **FLOWER SEED and SPRING BULBS.**

Catalogue free to the trade on application with business card.

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Strong heavy plants.....doz. $4.00
Lighter, equal to imported..... " 3.00
ROSES—H. P. 2 year, own roots, choice kinds.....per 100 $10.00
DAHLIAS—50 vars., whole roots, proved sorts.....per 100 $8.00
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Now is the time to plant the following first-class Hardy Herbaceous Plants for Florists' purposes. Once planted they live forever, and require no care, while they are ve y useful during the spring and summer months for cutting purposes:

Achillea "The Pearl", at 5c
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" Japonica alba, at 6c
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Dble. Scotch Pinks, white or rose color, at 8c
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Iris Germanica, mixed varieties, at 3c
Lychnis Chalcedonica, at 10c
Monarda didyma, at 8c
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Pæonies, in mixed varieties, at 18c
Poppies in varieties, at 10c
Pentstemon in varieties, at 8c
Phlox in varieties, at 6c
" The Pearl, at 10c
Rudbeckias, at 9c
Salvia pratensis, at 10c

Good strong plants in quantities not less than **25** of each.

ARTEMISIA PONTICA, with fine, silvery, fern-like foliage, perfectly hardy, and exceedingly useful for bedding, especially for dry situations. $35 00 per 1000.

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CYDONIA JAPONICA
For HEDGING. $5.00 per 100.
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Send for Descriptive Catalogue and Wholesale List.
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Largest stock in America. Splendid plants. Cheaper and better than Imported. See prices below:

ONE YEAR, 12x15 inches, fine	$5.00	per 100;	$40.00	per 1000
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TWO YEARS, extra selected, 2½x3 feet, strong	7.00	"	60.00	"
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00	"	70.00	"

Packed in best manner and delivered to Express or R. R. free of charge on receipt of proper remittance.

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Grapes, Small Fruits in Variety, Asparagus, Etc.
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NEW HARDY HERBACEOUS PÆONIES,
Including a **set of nine entirely new** sorts never before offered in this country, the whole comprising the best collection of this gorgeous flower ever offered here. All at low prices. Also 500,000 fine Hardy **Shrubs, Hedge Plants, Evergreens and Trees.** Also a complete collection of **Hardy Herbaceous Plants, Japan Iris, etc.** Catalogues are now ready, free.
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SILVER MEDAL AWARDED
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This preparation Is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

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OUR TRADE LIST IS NOW READY.
SURPLUS AS FOLLOWS: Climbing and Tea Roses, Clematis Jackmani and other large flowering sorts. Pyramidal Arbor-vitæ 2 to 5 feet. Shrubs, 2 to 4 feet large variety, strong clumps. 15,000 Houghton gooseberry 2 and 3 years.
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Zinc joints for butting glass without laps. No leakage. No sliding of glass. Practically air tight. Keeps out cold winds, thereby saving fuel. No laps saves enough glass to pay for the zincs. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's Patent Zinc Joints" with entire satisfaction. Write for sample and price list.
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Among recent arrivals were 100 varieties of herbaceous pæonies and a large lot of perennial phloxes from H. Cannell & Sons, Swanley, England; a box of chrysanthemums from Carter, London, England; 26 boxes of herbaceous plants, shrubs and vines from the Dingee & Conard Co., West Grove, Pa; 10 plants of double flowering crab from Mr. Bechtels, Staunton, Ill.

The rose garden on the wooded Island has been laid out and hardy roses already received are being planted.

A portion of the supplementary greenhouses are now occupied and the remainder will be ready for occupancy as soon as the heating apparatus is fully installed.

The Horticultural building is now fully enclosed and the work that remains to be done is progressing rapidly.

Germany has applied for an acre of space in the Nursery division.

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WE ARE NOW MANUFACTURING,

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Send for catalogue and price list.

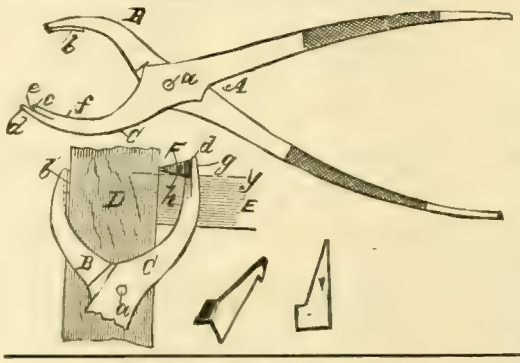
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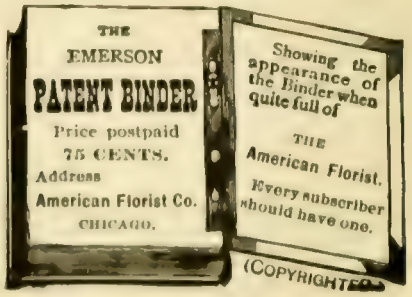
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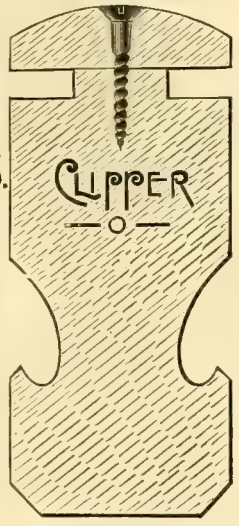
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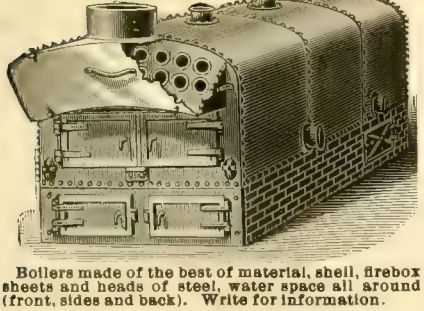
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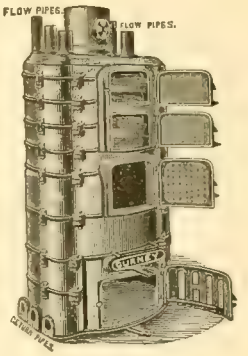
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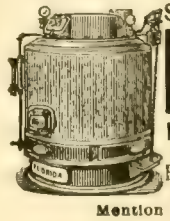
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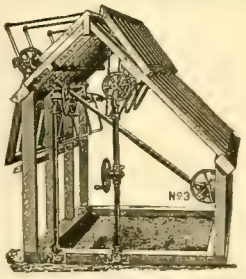
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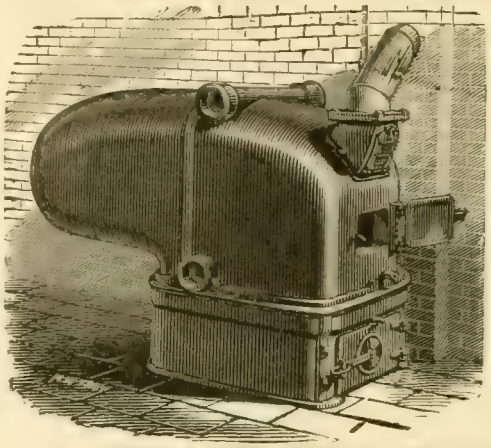
LOUISVILLE, KY.—Business is dull and plenty of flowers going to waste. It was never so dull before. To relieve the monotony of the situation a number of the florists arranged for a little supper at which the project of a chrysanthemum show next November might be talked over. There were present Messrs. J. Schulz, A. Lauer, S. J. Thompson, [illegible] Schleeter, Joseph E. Marret, Henry [illegible] Chas. Neuner, Henry Lichtefeld, [illegible] Mann, E. G. Reimers, Will Hamilton and Wm. Walker. It was a very enjoyable affair and it was felt that considerable good had been accomplished. Acquaintance and friendship was cemented and all were in excellent humor when they separated at 11:30 p. m. to return to their homes.

ST. JOSEPH, MO.—The storm did very little damage to greenhouses in this city and vicinity. Probably $25 would cover all losses.

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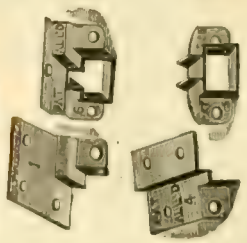


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Vol. VII. **CHICAGO AND NEW YORK, APRIL 21, 1892.** **No. 203**

THE AMERICAN FLORIST

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A TREATISE upon the American species of rumex occurring north of Mexico, by Prof. Wm. Trelease, has been issued by the Missouri Botanical Garden, St. Louis. It is illustrated by 21 splendidly executed plates.

THE Florida Horticultural Society will hold its next annual meeting at Ormond, May 3d, 4th and 5th.

WILSON BROS., florists at Springfield, Ohio, are reported burned out April 17.

Among the Rose Growers.

Morris county, New Jersey, is as famous for its roses as its peaches; it is a locality where few people can afford to throw stones. There are forty growers who ship from Madison alone, seven from adjacent Summit and six from Chatham, the next station. It is a district full of interest to any one connected with the trade.

During a recent trip to this locality the first visit was paid to the DeForrest establishment, which has obtained distinction chiefly in growing orchids for the cut flower trade. There are several houses of roses, among them some fine Rothschilds, but the orchids occupy more space than anything else. A visit to this place gives one some idea of the place the orchid now holds in the cut flower trade —but a few years ago we should have thought such a venture decidedly chimerical.

Cattleyas take the lead in quantity, but Trianæ, the variety most extensively grown, is now about over. Two months ago the display of bloom was very fine, a number of very good white varieties being among them.

A great many odontoglossums are grown here, their flowers being admirable for trade purposes. Among cypripediums a handsome form of C. Argus was noted in bloom.

Phalænopsis Stuartiana was noted, charming as usual, and calanthes and dendrobes were still in flower, though limited in quantity.

All the orchids grown here being primarily for the flowers, beauty is the first consideration, a fact which adds much to the attractiveness of the place.

Next to the orchids may be mentioned the cyclamens; a very good strain of this popular plant is grown here. Among them were some extraordinary double flowers, in which a second corolla grew downwards from the first. It was a decided oddity, but really ugly; the graceful form of the flower was entirely lost.

A quantity of well grown adiantum was well worth looking at, especially as trade ferns are now so scarce; among them was an unknown seedling, having larger fronds than cuneatum, which gave an impression of great durability. A. Farleyense and A. decorum were among other varieties grown.

Mr. May is, without doubt, the most famous of the Morris county rose growers, and one may generally be sure of something new or unusual at his place. At present his novelty is a rose, as yet unnamed—a seedling. It is a hybrid tea, with large flower, full petalled and yet long in the bud. It has a delicious tea odor and is satiny pink in color. The color is bright, and yet delicate, and is equally removed from the yellow pink of Mermet and the blue pink of La France. It is very hard, by the way, to describe the tint of a pink rose—there are so many different colors which we can only describe as pink, while feeling that the term is inadequate. However, this nameless rose is a real pink, and a charming color; it appears to last well, is strong in growth and free in flowering—in fact, it appears to be a genuine acquisition.

Mr. May is especially identified with teas or hybrid teas, growing but few of the other sorts. The Bride always does its best with him, and Watteville is another of his unvarying successes. This season the Cusins have been sorely tried by those abominable eel-worms. This pest is invisible to the naked eye and indistinguishable under a glass magnifying thirty diameters, but with the microscope the creatures show an amazing activity. It is remarkable that such a tiny creature can cause such havoc, but a cursory glance at the affected plants shows that the mischief is serious.

The Waban attracted by its good color, but this rose has been quite a disappointment. During the past season there has been a general complaint of the number of malformed flowers produced; this, however, may have been produced by a temporary weakness of constitution rather than being characteristic of the plant. This same defect has been noted in so many new roses for a season or two, giving rise to the impression that it is often caused by over-propagation.

The greatest defect in the Waban seems the awkward shape of the flower, caused by the rolling of the outer petals while the heart is still tightly closed; the color is certainly attractive.

Speaking of the Wootton, Mr. May gave his opinion that it is most useful to small growers whose flowers are for their own use; they can usually have a supply of Wootton when they can get no other red rose.

One does not look for much besides roses at this place, but a few other things are grown simply for the pleasure they give, among them being a little house of carnations. Among them was a most charming pink, Grace Battles, which promises to be a decided rival to the popular Wilder.

Another place visited was that of James Littlejohn, one of the pioneers of the trade in growing hybrids. He used to be famous for his Cornelia Cooks, but this rose is now rather out of date, and Mr. Littlejohn has transferred his skill to the Bride, which he grows to perfection. Mr. Littlejohn is perhaps almost the only man around New York who grows Her Majesty, though in small quantity. We all devoutly believe that this rose is a wonder when it comes right, but it generally doesn't.

The Sunnywoods greenhouses at Chatham were an object of especial interest on

this trip, being the home of the Bridesmaid. This rose was first introduced as The Hugh, but this name did not seem to exactly fit, so it was changed to Bridesmaid, an extremely felicitous title, firstly, because it falls trippingly off the tongue, and secondly, because it will naturally be associated with the popular Bride.

There is little reason to refer to the origin of the Bridesmaid, it is well known as a Mermet sport, but without seeing the plant it is difficult to understand how thoroughly distinct it is. It is undoubtedly associated with Waban, whereas the difference is as strongly marked in shape as in color. At Sunnywoods these two roses are planted side by side, thus enabling one to note the difference at once.

The color of Bridesmaid is clear light pink, it is not the red of the Waban, but is equally removed from the shell pink of Mermet, whose yellowish tinge always becomes more marked in bad weather. Bridesmaid pales but little in dull weather, but when it does it still remains pink, a decided advantage over Mermet. The flower is very large and shapely, habit strong, like all the roses of this strain. So far it has proved itself singularly free from deformed flowers. Certainly a most beautiful rose—by another season we may expect to see it as one of the stars.

Another specialty at Sunnywoods is the Cusin, with which Mr. Moore is especially successful, and the same may be said of the Watteville. Both these roses are very finely grown, having secured a number of prizes for Mr. Moore.

EMILY LOUISE TAPLIN.

Growing Dutch Bulbs in America.

BY E. BUETTNER.

[*Read before the Chicago Florist Club April 14.*]

I have chosen for the subject of this essay the growing of Dutch bulbs for the trade in this country. When Mr. Geo. Klehm some years ago commenced the growing of tulips for his own use, I paid some attention to this matter and have since tried some myself, enough to convince me that we can grow as good a tulip bulb in this country as in Holland if the right kind of soil is selected and a similar manner of culture is carried on. It is a mistake to think that Holland is the only country where these bulbs can be grown profitably. The reason that Holland is the only place where these bulbs are cultivated to any extent is, I think, only an accident. In the middle of the 17th century tulips became an object of speculation in Haarlem and enormous prices were paid for rare varieties, as much as 3,000 to 5,000 Gulden apiece. This naturally gave an impetus to their cultivation and everybody for a time went into the business of cultivating and improving the tulip. After the speculation fad collapsed they were so well posted and possessed so many advantages in growing these bulbs and raising new varieties that the whole of the trade was left to them, and for over 100 years they have enjoyed a monopoly of the bulb trade.

America is taking the lead in most branches of our trade and I see no reason why it should not also in this. Only a few years ago we were importing all our palms from Europe and it was thought impossible to grow them as good for the same price in this country. To-day we can buy better plants for less money here, without running the risk of having them spoiled in transit. I am sure there can be found in this country soil and conditions of climate suitable to establish an American Haarlem, and I think right here around our lake such a place could easily be found. As tulips can be grown as easily as onions it is sure to be profitable and every florist in the land would be a gainer.

I am of the opinion that the soil and climate of Haarlem is not the reason for their being cultivated there almost exclusively. As I stated before it is a matter of an old, well established business in which the inhabitants of a whole section of country are partners. For generations bulbs have been grown here for the trade and every man, woman and child is thoroughly acqnainted with the trade; besides all the hundreds of different varieties of tulips, hyacinths and so forth can be had here every year at a moderate price. It is therefore quite unnecessary as well as impossible for other European countries to try and better these conditions. But we, here in America, have other reasons to wish to be able to obtain stock nearer home.

I have been told that in Europe it is not very difficult to force tulips and hyacinths into good blooms, on long stems, with good foliage, any time in December and earlier, while we in America experience great difficulty in getting fair blooms even for Christmas. The reason for this I think is that the European florists receive their bulbs from five to six weeks earlier than we do, and can have them rooted earlier, and consequently force them earlier and better. This could be overcome if we could obtain our supply at home. The bulbs would ripen in this country at least four weeks earlier than in Haarlem, and we would thereby gain over two months. We would be able to shift our forcing season to a period when flowers are scarce and needed, while now the main crop of bulbous stuff comes in Lent when there is a glut of all kinds of flowers and no sale. Therefore, in the present state of affairs there is little or no money in forcing bulbs.

Another argument is that we often receive bulbs in spoiled condition, from being heated, the result of stowing them in the hot and airtight hold of the steamer and after taken out exposed to the hot and dry air of our climate. We received this year a shipment of about 15,000 tulips that were entirely spoiled, the flowers all being dry in the bulbs, and we have no year been without some loss. All this could be avoided if the bulbs were grown here.

Last summer while in Europe I took a trip over to Haarlem, and I will relate to you in a few words what little I have seen. There is a dummy road running from Haarlem to Leiden, right to the main bulb growing district. The country is flat and below the level of the sea. It is crossed by numerous canals and ditches, which act as drains to carry the water to main canals which are about 6 to 10 feet higher. Hundreds of windmills pump the water from the lower ditches into the higher canals and is so carried off to the sea. The soil is mostly pure sand, but careful cultivation has made it very productive. The bulb fields are divided into small squares the size of ¼ of an acre to an acre, surrounded by live hedges to protect the plants from the winds that are constantly blowing here from the sea.

The tulips are multiplied by offsets, planted from September to December, in beds about four feet wide. The soil is taken entirely out of the beds to the depth of 4 to 5 inches. The sets are then placed in the bed and soil from the next bed is taken to cover them, and so on through the whole field. The bulbs are allowed to flower, to assure that all are true, then the flower is cut out so that all the strength goes to the bulb. They are taken up in July or August and stored on shelves, in long sheds to dry; care is taken not to expose them to the sun as it will crack the skin and wilt them.

Narcissus are handled the same as tulips, but hyacinths are multiplied in a somewhat different way. A conical piece is cut out of the base of the mother bulb. Then they are laid out on shelves, the cut to the top. Here they remain for six to eight weeks or longer and little bulblets form on the base of the leaflets. The bulb is then planted out whole. The next season these little bulblets will be grown to the size of peas. They are then taken from the mother bulbs and planted alone and in five or six years they will grow to salable bulbs, taken up and replanted every season. They are of course also multiplied by offsets, but as the hyacinth does not form many, the former way is mostly applied with newer and scarcer varieties.

Now, where ever there is well cultivated light sandy soil, well drained, similar to what we find in Lake View, not too dry in summer or too wet in winter, would be suitable for the cultivation of these bulbs. They will also grow well in heavier soil, but will split and lose their skin and therefore not be salable. If a beginner having the right kind of soil and other conditions favorable would confine himself to two or four varieties and grow them in large quantities, I am sure he would find himself in possession of quite a snap. I think about a hundred thousand bulbs could be grown on an acre. The cost of cultivation would amount to about $250 at the most. The bulbs, of such varieties as Yellow Prince, would bring at least $1,500, making a net gain of $1,250 from one acre. But after being well established the cost of cultivation could be lowered and the production increased. Where is there a more profitable business?

But this, like all other kinds of business, requires close attention and should not be taken up except it can be done well, otherwise failure is sure.

Our Foreman.

The engraving is one used in a recent circular by Messrs. C. B. Whitnall & Co., of Milwaukee, but the subject was such a pleasing one that we felt it was entitled to a wider circulation and should be enjoyed by all the readers of the FLORIST.

The child is the infant son of the senior member of the firm and the title is the same as that used in the circular. Going as it did to the retail trade we believe this engraving must have greatly enhanced the value of the circular as an advertisement, for who would not be at once attracted by the pretty combination of the child and the handsome foliage (especially the ladies); and then heartily enjoy the title that appears below.

The Easter Display in New York.

This has been an Easter of pot plants. Cut flowers were used, as they always are, but they were nowhere, compared with the plants. Every flower store was brimming over with plants, and the sales were very large, while the peddlers and market dealers reaped a large harvest among patrons who rarely enter a florist's store. The quantity of plants and flowers seen about the city shows that popular taste in this line continues to increase. Confectioners, milliners, haberdashers and dealers in bric-a-brac decorated their windows with lilies or hy-



"OUR FOREMAN."

drangeas, chiefly lilies, which are not only the most popular of all Easter flowers, but this year at least one of the most plentiful. Two large china dealers had their windows decorated with lilies put in large trumpet-shaped vases of sea-green glass, the very thing to hold big long-stemmed flowers. The same dealers offered exquisite fern baskets of Limoges china, filled with growing ferns.

The display made by the retailers was very large, showing the prevailing tendency towards plants. Many of them found their business too large for their everyday store, and so overflowed into an annex.

Fleischman was one of the busiest florists on Broadway; in addition to his main store he annexed three others, and found trade in plenty for each. The main store, though small, is one of the prettiest in the city, being decorated in Empire style with white and gold and lit by a tremendous number of electric lights. At night the effect is extremely striking and always proves a great attraction. The outside display was chiefly lilies and hydrangeas; the windows were massed with fine azaleas. On entering the store attention was seized by a broad frieze of Marguerites and red azaleas at the rear; Marguerites and genista were banked in the corners. Mr. Fleischman was doing a very large business; he stated that the favorite Easter gift this year was an azalea, the pot slipped into an ornamental basket. Mr. Fleischman was formerly with Klunder. He says they use a good deal of narrow ribbon in their work, but the broad sashes are less cared for, it being the opinion of many in the trade that they detract from the effect of good flowers.

Hafner had a window filled with beautiful azaleas, bordered with genista and adiantums. Lilies showed in the background with excellent effect.

Bebus had a showy hydrangea as a centerpiece, surrounded by roses and bordered with ferns. Lilies too, but this goes without saying.

Brower's window looked like a spring day, full of roses, daffodils and lily of the valley, while at one side was the daintiest border of trailing arbutus ever seen. It is only a bit of a woodland flower, but it often rouses more enthusiasm than the costliest rarity.

Kirch had a window full of roses and lilies, bordered by daffodils and lily of the valley.

Scallen had a whole flower show out of doors; any quantity of fine genistas, azaleas and hydrangeas, as well as lilies. The windows were chiefly decorated with cut flowers, but plants were the main attraction, as was readily seen by the quantity sold.

Thorley had his usual large display, his ample window space gives scope for fine effect. The main window had a broad white satin sash at the ceiling, the long ends winding irregularly through the bank of flowers. This window was filled with spring plants—dainty baskets filled with hyacinths, tulips or lily of the valley—tall white lilies in baskets bound with lavender ribbon, azaleas and lilac. The arrangement was most charming. Another window was filled with choice roses, but the spring plants were the great attraction. In the store a bank of lilies stood along the walls, and the corners were loaded with violets and roses.

Hanft Bros. had their front almost hidden by the mass of lilies and Marguerites, which predominated outside. They had a very large and tastefully arranged display with a backing of palms, which threw out the colors of the flowering plants. Bulbs in pots were plentiful, and so were azaleas. In fact the display of azaleas made by the trade generally was of remarkable excellence, the plants being very well flowered and above the average in shape and foliage.

Jas. A. Hammond is another of the Fifth avenue florists who made a fine display, trade being, as with the majority, very largely in the line of pot plants. Genista, hydrangea and lilies formed a fine show, good lilacs were plentiful, while a charming novelty was Kalmia latifolia, previously mentioned in the FLORIST. The kalmia was flowered to perfection and made a very handsome plant. White double stocks were another of Mr. Hammond's attractions; they were well grown and seasonable. Marguerites, always popular, were abundant, and there were also some good carnations. The store was well filled with roses and other flowers and trade very brisk.

Siebrecht & Wadley decorated their corner with their usual taste; flowers everywhere, outside and in. Two shapely bay trees stood outside, surrounded by big hydrangeas. All sorts of bulbs were to be seen in pots, and there was a large display of Marguerites, lilac and azaleas. Stocks and pansies were plentiful. It is noticeable that palms make very little show in these Easter displays, and both cinerarias and calceolarias, which are usually popular, were conspicuous by their absence. It may be supposed that these plants found their sale more in the

markets than with the uptown retailers. The display of hydrangeas seen at Siebrecht & Wadley's was the finest noted anywhere, both in quantity and quality. All Otaksa, pink and blue, about evenly divided. The prevailing taste for pot plants was seen here, trade being very large. Azaleas or lilac, the pot slipped into a basket cover, formed a favorite gift, white and gold baskets leading. Some very attractive baskets filled with hyacinths were square in shape, made of woven gilt straw and ribbon-like white celluloid; they were very handsome. Plants were used in all sorts of decorations, while the preceding Sunday was conspicuous for the increase in the use of palms. Some giant mignonette seen at Siebrecht & Wadley's was rather an oddity, it was grown by Asmus and was so immense that it looked more like an extraordinarily colored cockscomb than anything else.

C. W. Matheson found his business so increased that it overflowed into an adjoining store, which was filled with flowering plants. Quantities of lilies formed the main outside display; the window was decorated with orchids. Very few orchids were seen anywhere, having for once to bow before simpler flowers.

Alex McConnell made a great display of lilies and hydrangeas, most effectively arranged. There were plenty of fine plants to choose from and trade was good. Some of the lilies were displayed in fancy pots, further decorated by narrow white ribbons, but the tendency is more in the line of plants unadorned.

Hodgson had some big genistas outside large enough to make respectable trees and a sheet of golden bloom. Around them were big hydrangeas and deutzias. Comparatively little deutzia was seen anywhere; it seems to be gradually falling into disuse in spite of its beauty. However, it does not stand much knocking around without injury, a serious defect in a trade plant. Quite a lot of astilbe was seen, though we are told it is losing favor. In addition to his outside show Hodgson had his usual well filled store supplemented by seasonable attractions in the way of spring flowers.

Nugent is known for his fine roses and violets, and a window filled with these flowers was very attractive. Another window, devoted to Easter stuff, had a fancy wheelbarrow of basket-work loaded with azalea and genista, backed by lilies; it was a quaint and pretty idea.

Dards had some very large genistas outside, towering above the other plants; they were very handsome, and there were fine hydrangeas and azaleas. It made a noticeable display.

Hauser & Son confined their display to the inside of the store; it was chiefly confined to choice cut flowers, among them very fine roses.

Stumpf had his store in gala dress, it being very tastefully arranged. One window was filled with a superb red azalea bordered with ferns and cypripediums.

McConnell & Grimshaw were finely decorated with cut flowers as well as plants, and were generally busy, as every good florist wishes to be.

S. J. Burnham had an attractive place, making a very fine display. At all these up-town places one is sure of seeing the best flowers in the market, as their class of trade calls for no other grade.

F. Ritter, Alphonse & Co., and many others, too numerous to mention, brightened up the streets with large displays. There is an amazing list of retailers in New York, and the trade seems to grow steadily.

Summing up the retail trade for this Easter, it may be regarded as extremely good, but most encouraging to plant growers. Flowers sold well and in quantity, but there was no remarkable increase in prevailing prices. Next to the lily, azaleas may be regarded as first favorite. As a whole, the Easter stuff was extremely good in every way.

Angræcum Sesquipedale.

The accompanying illustration is engraved from a photograph sent us by Mr. George Savage, who has charge of Mr. Kimball's splendid collection of orchids at Rochester. The plant figured is considered the finest specimen in cultivation.

Mr. Savage writes as follows: "This angræcum is described in Williams' orchid manual as a wonderful plant from Madagascar, where it is found growing on trees. Foliage dark green, about 10 inches long, blooms ivory white and very large, with a tail or spur hanging from the bottom of the flower, from 12 to 18 inches in length.

"The plant photographed originally belonged to Mrs. Mary J. Morgan, of New York, and was sold after her death with the entire collection at public auction about seven years ago, and was bought by Mr. Kimball at that time. This specimen stands about five feet high, but has never flowered so profusely as it did this last winter.

"This species requires a warm temperature, slightly shaded in the summer, with a moderate amount of water at the roots all the year round."

Cattleya Mossiæ at Washington.

The warm and genial weather has brought this cattleya very rapidly into bloom. Mr. Pfister, the gardener at the White House, has some 400 flowers in fine condition, hardly two alike, the lips in several instances being devoid of the rich coloring which usually predominates. Altogether it is a fine strain and coming so early, in that section of the country, Mr. Pfister finds ample use for the flowers.

The plants were formerly attached to blocks but baskets are now being used, which are much preferable as they do not dry out so rapidly during the summer months, a season when the plants are in active growth and require an abundance of moisture at the roots.

Two grand plants of Cyrtopodium punctatum were flowering, with long, many-branched stems covered with bright yellow and rich chestnut brown flowers.

Cattleya Trianæ were seen in quantity, and several C. Gaskelliana, also the pretty Lælia crispa, together with several very interesting cypripedes. A. DIMMOCK.

Portia Carnation.

Replying to L. T.'s request about treating Portia carnations, we have a bench 6 feet wide and 50 feet long, in a 11-foot house, paths at sides of house. We are cutting at present 800 flowers per week. To-day's cut of 300 flowers measure as follows: Diameter smallest bloom, 1¾ inches; diameter largest bloom, 2½ inches; average diameter bloom, 2 inches; length shortest stem, 12 inches; length longest stem, 20 inches; length average stem, 14 inches; and stems are firm and hold the flower erect above bench. Commenced flowering in October last, have bloomed continually since, and flowers have averaged as to size at least as good as above. The bed is a mass of buds and evidently will bloom till July; and there are no signs of decrease in size of flowers, length or stiffness of stems.

Treatment: Night temperature 50°, day temperature 50° on dark days, 60° to 75° on sunny days, with an abundance of air. Watering: The ground is kept moderately moist while the plants and foliage are kept dry, save on very bright days when we syringe with a mixture of ammonia and carb. of copper made as follows: 2 ounces of carb. copper dissolved in one quart of ammonia; dilute with 25 gallons of water. This syringing seems to *prevent* spot, carnation rust, greenfly and red spider.

To keep the flowers *large* nip off all lateral buds and allow only terminal buds to bloom. In cutting flowers take off the stem just above the uppermost pip that you would naturally select to root for a fine cutting. We do not attempt to grow a bloom from a side bud, or weak pip, as it will usually come very small. Good plants of Portia give 20 to 30 long stemmed flowers under this treatment during the season, and the flowers sell at double the price of the small weak stemmed lateral blooms.

We nip out the terminal bud of Fred Creighton and thin out the lateral buds, leaving 3 to 7 buds on each main stem. This gives nice medium sized blooms that do not burst. This is our most profitable pink carnation, producing 5 blooms where Grace Wilder gives one. It is always even in color, delightfully fragrant and sells at sight.

Lamborn, our best white, is disbudded same as Portia, save we leave the lowest lateral bud to bloom. Stems average 10 to 12 inches, and flowers run from 2½ to 3 inches in diameter.

Rosalind is disbudded, terminal is left and 2 to 3 lowest side buds are also allowed to bloom, nipping out the 3 topmost laterals. This gives an average 10-inch stem and a 2 to 3 inch flower.

This treatment reduces the number of blooms somewhat, but the better quality compensates to a great degree and our commission man has never reported anything unsold. As our carnations are grown principally for cuttings we keep the temperature very low, up to April 1st 45° to 50° at night and 50° to 55° during the day, with abundant ventilation. After April 1st, as we take no more cuttings, temperature is raised to 50° to 60° at night and 65° to 75° during the day, in order to produce the largest possible crop of flowers. C. W. WARD.

East Moriches, N. Y., April 11.

New York.

"The best Easter we ever had." Everybody don't say so but it would not be regular if every body agreed, and the general testimony is sufficient. It has been essentially a "plant Easter." The quantity of plants disposed of in this market is beyond precedent. And the quality has never been equalled before. Most of the large retailers have had extra space for their plant trade in the way of available vacant stores in their neighborhood and all made a big success of it. Scallen had two large flats over his store, Butler had an extra store on 5th avenue, Mathieson had two extra stores, Hodgson had his big hall filled up, and Fleishman had three stores and an interminable length of sidewalk devoted to the plant trade, and on Saturday it was almost impossible to move about in any of them.

Good Friday was a novelty for this latitude. A big snow storm in the morning hours, which in the neighboring New Jersey suburbs amounted to a coating of white four inches deep, was a convincing



ANGRÆCUM SESQUIPEDALE.

proof of the fickleness of April weather. Last week a July temperature, this week winter again.

This sudden change had its good effect on the flower market, nevertheless, and shortened up the supply of roses, etc., to such an extent that prices held right up to the top notch for first-class goods, and was a blessing to the shippers of cut flowers, who say that such a shipping trade for Easter was never before experienced and, better than all, up to date no complaints have been received.

Prices have held very stiff on good quality flowers. The best Magnas, American Beauties and Rothschilds have sold at from $40 to $60 per hundred. Mermets and Brides from $10 to $12 per hundred, prices unprecedented for April. J. H. Taylor cut 900 first class Magnas in one day, Asmus sent in 1000 Brunners in one day, and Blauvelt, of Pearl River, astonished everybody with the best Luizets seen in New York this season. Wiegand of course was the "king pin" on Jacqs, and his crop was just in the prime of quality and quantity.

As to lilies, it is hard to tell the story. There were some lilies lost, but they were not good ones. Many were sold as low as $5 per hundred, but they were as a rule not worth any more. Good Harrisii brought from $8 to $10 per hundred, and longiflorum $12 per hundred. On Friday, and even as late as Saturday morning, it looked as if the lilies would be dead stock, but by Saturday evening they were cleaned out and there was an unsatisfied demand on Sunday morning which was a surprise to everybody.

Candidums are practically out of the question as an Easter factor; callas, held up well, bringing $2 per dozen readily. In bulbous stock the worst overstock was on tulips, and some lots were sold at less than the original cost of the bulbs. Lily of the valley sold well and large quantities of it disappeared. First class daffodils sold quickly for $4 per hundred, but there was a big heap of outdoor grown daffodils from the South which was the worst kind of trash and which could not even be handled by the "Greeks," who usually stop at nothing if it is only "scheap." Carnations are generally off crop, and they held high, from $3 to $4 per hundred being the ruling figure. The only unsalable stock in the rose line was La France, which after a couple of handlings at this season of the year is only fit for the rubbish box.

Violets came in on Saturday morning in unprecedented quantity, so much so that they were rushed off at panic prices, a proceeding which was regretted before nightfall when the demand for them could not be supplied. Up to within a couple of days before Easter it was impossible to obtain smilax at any price. Then all of a sudden it came piling in from every quarter, and as it was unexpected no market was prepared for it, and as considerable of it was not over a couple of feet in length nobody wanted to pay 25 cents a string for it, so now it lies in "innocuous desuetude" in the commission men's cellars slowly but surely turning a golden yellow; another lesson to greedy growers to emphasize the old proverb that "all is not gold that glitters."

Among the novelties that seemed to "take" were Sweat Peas, and Burns & Raynor had a fine stock of Bougainvillea that came just in the nick of time from an out of town grower. Young Bros. look as if they had not had an opportunity to sleep for three days, and James Hart says quietly but convincingly: "The best shipping trade I ever saw."

The regular meeting of the Florists' Club took place on April 11, at Germania Hall. This meeting, as well as that of the bowling club, which preceded it, was but thinly attended, most of the members being evidently intent upon their Easter preparations. The part to be taken by the club in the coming fair in aid of the Actors' Fund was the prominent subject under discussion, it being the unanimous opinion that the flower trade is under no small obligations to the theatrical element and that the appreciation of this fact should be shown in no mean way by the Florists' Club. Henry A. Siebrecht reported for the committee having the matter in charge and diagrams showing the floral booth which it is proposed shall be decorated and furnished by the club were shown and commented upon. The president was instructed to increase the number of this committee to 25, and all members of the club will be asked to aid and assist by all the means in their power the club in its efforts to show the good feeling of the flower trade towards the charitable purposes of the Actors' Fund Fair.

A vote of thanks was tendered the American Florist Co. for a copy of the new florists' directory.

Two new members were admitted and several more proposed.

President Dean was absent and Theo. Roehrs presided, a fact which gave Alex Burns a glorious opportunity to keep Mr. Theodore up to the chalk line on parliamentary points, in retaliation for similar kind attentions by Mr. Theodore on former occasions when Bro. Burns occupied the chair.

Among the celebrities present was Mr. Robt. C. Patterson, of Pittsburg, Pa., who was so much pleased with the welcome extended to him that he had his name proposed for permanent membership.

Rudolph Asmus showed some spikes of mignonette which were about three feet long and flattened out several inches

across in the form of a "cockscomb" which excited some curiosity and considerable witty criticism of the grower.

The investigation into the methods and management of the park department has resulted in the resignation of Mr. Woolson.

John Weir has removed his Brooklyn store to corner of Fulton and Pierpont and when fully completed it will be the finest store in Brooklyn.

The greenhouse on the premises of P. H. Scudder at Glen Head was wrecked on April 12 by the explosion of a boiler.

Philadelphia.

Easter 1892 has passed and will long be remembered by the florists of this city as one of the busiest of these busy times.

Trade was good all through the week, except possibly Wednesday afternoon and Thursday morning, the wet weather keeping the people indoors on these days. It commenced to rain Wednesday afternoon, continuing until Thursday morning, when it turned to snow and soon the streets were very sloppy. But it cleared off about noon and the stores were soon full of customers. A storekeeper was grumbling about the weather and his hard luck in having a large stock, and if the bad weather continued a poor prospect of selling them, when Robt. Craig said that instead of a detriment the bad weather would be a benefit to him, as everybody who came to the store would mean business and he would not be bothered answering a lot of questions and giving prices to satisfy peoples' curiosity. Great head!

Of course the lily was the popular flower; unfortunately the supply was not equal to the demand, the stocks everywhere being entirely sold out by Saturday night. There may have been a few too many hydrangeas or spirea about, as almost all the stores seem to have a few of these plants left, but no doubt they would have gone if the people could have been waited on; this, however, seems impossible, particularly on Saturday. When the great rush comes it seems to carry almost any system before it and break it down. Pennock Bros. said: We could not wait on the people. We never saw such a jam. Had to stop selling cut flowers early in the day, and this was the case generally all about town, people going from one store to another only to get the same reply, "have not enough for our orders."

Lily plants were sold out early Saturday afternoon, as also were the cut blooms. The retail price was the same all over—25 cents a flower and bud.

Roses were very scarce, Brides particularly so, it being impossible to get them except in small lots. Mermets, Brides, La France and Albany sold for 12, Perles and Gontiers 8, Brunners 40, Laings 30, carnations $3 and in great demand. Lilies in pots brought 10 to 12, and some extra fine plants 15 a flower and bud; cut 10 to 12, valley 3 to 4, tulips and daffodils 4 to 5.

Mr. Charles Fox had a beautiful exhibition of his Easter stuff Tuesday, Wednesday and Thursday. The plants were tastefully arranged and massed in colors, a bank of lilies at the end of one of his houses rising to the roof being particularly fine and calling out an exclamation of surprise from all who saw it. A long house connecting others was massed with plants in full flower, while in the end of each house opening off of it was arranged a striking feature. In one was a hut thatched with straw in which were two sheep, while outside in the yard adjoining it was a hen and brood of chickens, also a pen with rabbits. In another house was a representation of a tomb carved out of rocks. This was much admired. In the office and store there was an exhibition of cut roses and orchids. The show was well worth a visit.

Habermehl Bros., of 22nd and Diamond, had also a fine exhibition. One of their features was a grotto with a lake in the center in which were different colored electric lights; about among the rocks were orchids in flower. The effect was very pretty. In another house or extension for the purpose, was a large bed of maidenhair around which were arranged large groups of azaleas, roses, daisies and Easter lilies in solid colors; in the center reclined a large cross of Easter lilies, candidums and lilies of the valley. This decoration attracted a great deal of attention; in fact their whole place was beautifully arranged and their plants showed the effects of good treatment by their fine healthy appearance and abundant flowers.

These flower shows must be greatly appreciated judging by the crowds that are drawn to them.

Trade prospects are very good, for a time at least, as quite a number of weddings are announced, at some of which there are to be quite extensive decorations.

K.

Mr. C. J. Pennock was in the city Friday. He brought with him some of his this years' seedling carnations—that is to say, flowers from his seedlings which are blooming for the first time. Progress is apparent in most of them. One was a very large flower, very full to the center, yet there was no indication of the splitting of the calyx. The calyx was shorter than is usually seen in carnations. In color it was white marked with pink, similar to the markings on Hinsdale. There was not, however, so much color in this one as is seen in the old variety when well grown nor is it the same shade of color, being more inclined to red than purple.

EXHIBITION ECHOES.

It should be mentioned in justice to Secretary Farson that he had written and sent schedules to all carnation growers that he knew, and Mr. Fred Dorner was one of them, so that the report which stated that Mr. Dorner would have competed for the cup with some of his seedlings had he known in time, needs correction.

The dinner table decorations were deserving of more notice than they received, but I did not have an opportunity of examining them until the flowers had commenced to wilt. Orchids, which were used liberally in both Messrs. Pennock's and Kift's designs, stand longer than any other flower that was used. I heard one florist remark that they last in good condition a little too long. Messrs. Kift & Son used with excellent effect tiny electric lamps in their display, which elicited many complimentary remarks on the ingenuity and taste of Robert Kift, who is the active partner in that firm.

The receipts were between $300 and $400 more than was taken in at the spring show of 1891. Mr. George C. Watson, who is chairman of the publication committee, had the advertising in charge, and it certainly was better done than has ever been attempted at any spring show before. The cuts which were used were made by A. Blanc and were original and beautiful, and they might well be initiated by other clubs or societies which have spring shows on hand.

L.

Boston.

Another profitable and generally satisfactory Easter. The weather was responsible for considerable hesitancy and cautiousness in the early part of the week and the wholesale dealers found local dealers disinclined to take any chances by buying liberally in advance. The weather was very cold and March-like and the reports of blizzards and severe weather generally from the west gave cause for fear that the storm might give us a parting call before proceeding to sea, and thus knock all Easter calculations to pieces. The cold weather was a great boon to the wholesale shippers, however. Rare indeed is it to get an Easter so late in the season, when lilies and roses can be shipped any distance without melting, and the wholesalers had good cause for glee for everything was in their favor. Good Friday was a cold, cheerless sort of day and it was not until Saturday morning dawned bright and spring-like that the retailers managed to don a hopeful smile. The week had started off with a knock-down blow administered by Jordan, Marsh & Co. in the shape of a big advertisement announcing that they would place on sale at 10 cents apiece 5000 Easter lilies such as florists generally sell at from 25 to 45 cents each. The atmosphere in the neighborhood of one or two of the larger florist stores was blue with profanity about that time, but the clouds cleared away and wrath gave way to smiles when it transpired that the wonderful ten cent lilies were only imported Bermuda trash, and of such a quality that no self-respecting street fakir would adorn his stand with them. One witty gardener called at Jordan & Marsh's and asked what they would charge him for a cord of the lilies to chop up and grow mushrooms on. One conclusion has been arrived at, that is, that if Jordan, Marsh & Co.'s ordinary run of bargain advertisements compare in veracity with their lily adventure, the florists will not carry much of their cash to that concern.

The great surprise to even the most sanguine was the enormous proportions of the plant trade which reached a point never approached here before and would have been considered two or three years ago an impossibility. Wm. Edgar, one of the largest lily growers here hired a large vacant store on Tremont street for the week and load after load of longiflorums and hydrangeas disappeared like magic, the rush increasing steadily until on Saturday afternoon it looked like a mob, and they cleaned everything out and it was a wonder they didn't gobble up Edgar himself in their eagerness. Norton Bros. also ran an extra store where they had a beautiful selection of plants, among which were some splendid clumps of red paonies. Colored plants did not sell nearly as well as white ones, however. The absence of genistas was very noticeable, and the azaleas were neither plenty nor good.

Hydrangeas were much more abundant and of better quality than ever before. They formed the main portion of the stock sold at auction by Edward Hatch. The sale lasted three days and went from poor prices on the first day to very fair ones on the last.

One fact which was demonstrated to the satisfaction of everybody was the great inferiority of the Harrisii to the longiflorum as an Easter lily. The Harrisii has its place as an early winter forcing lily, but the flimsiness of its blossoms results in no end of annoyance and no

small loss to everybody who touches it at Easter, especially when Easter comes late. The great bulk of the candidums in the market were very poor.

There was one strain of good ones round however which was the more noticeable on account of the absence of any other good ones to keep it company. They say that the young man who sold the bulbs will have a picnic on candidum orders when he comes here this season. And they say further that he is a former Bostonian who now makes the City of Brotherly Love his headquarters.

Window decorations in stores of all descriptions in the retail district were very general, many beautiful effects being formed by the use of lilies, hydrangeas, spireas, etc., combined with rich silk hangings.

With one exception the florists made no attempt at design in their window decorations, being content with massing great banks of blooming plants in the windows and about the doors. Galvin Bros. window made a pretty picture. It was a bed of asparagus and orchids from the centre of which sprang a rich cross of lilies.

In cut flowers, there was a fair supply of everything and no great overstock of any varieties except such cheap stuff as stocks, mignonette and pansies. Violets were quite plenty and formed the larger part of the stock in trade of the street fakirs. Carnations again ran short. They brought $4 per hundred on an average but a few fancy blooms went as high as $6. Some extra roses sold for $2 per dozen but $10 to $12 per hundred was the ruling price.

The principal stock in hybrids was Jacqs and Brunners of both of which there was ample supply. Bulb stuff was plenty and of excellent quality.

Lilies sold out fairly well everywhere, little being left that were good for anything. Prices all through held very steady, the cold weather in the early part of the week being very favorable to this condition.

The winner of the second prize cup for Waban at the recent exhibition was Mr. C. E. Holbrow, not H. E., as previously stated.

Chicago.

The Easter trade was on the whole very satisfactory. Certainly the grower has no ground for complaint. Flowers of every kind and condition realized very good prices and the market was cleared out to the very last flower.

The demand for shipping to outside points was extraordinarily large, and the commission men in consequence reaped a rich harvest, at the same time placing local florists at a disadvantage. The growers have learned by experience that it doesn't pay to hold flowers until the last day, well knowing that the same prices may be realized in the middle of the week. Consequently a large share of the stock was shipped out, leaving a rather limited supply for the local demand.

Prices on all kinds of stock were held at the highest notch. Roses in particular, contrary to all expectations, were very scarce. Most all orders were cut in two by the commission men. Carnations also, white in particular, were at a premium. The same might be said of violets. The demand for this flower was extraordinarily large and the demand could not nearly be met. The stock of Harrisiis was very large, but nevertheless not a flower was wasted. Callas, which ten days ago could hardly be given away, sold at sight at $15 a 100.

The reports from the retail trade are rather conflicting. The majority report a satisfactory buisness while others apparently did less business than in former seasons. The fact seems to be that the high prices of stock was owing not so much to an increased demand, as to the limited supply. Many of the retail men complain of the almost total absence of orders for made-up pieces, the demand being almost entirely for cut flowers, which of course calls for a higher grade of stuff, thus leaving the short stemmed and broken stock on the hands of the dealer, which otherwise could be used to good advantage in the making up of designs.

Most of the dealers laid in a heavy stock rather on speculation than on actual orders, and the prices realized were hardly in proportion to those paid.

The main increase in the volume of trade was in the sales of plants. There was a big call for Harrisiis, but candidums went slowly for Easter. Azaleas were next to the Harrisiis in demand and an immense number of moderate sized plants—from 12 to 16 inches across—were sold at prices ranging from $1.50 to $3.50 each. A few extra large plants were sold for as much as $10 to $15 a piece, but such sales were rare. First class Dutch hyacinths sold well and large lots were disposed of, but some second quality stuff was left over. Genistas did not sell well though good plants were offered at moderate prices. These do not seem to take so well here as in the east, and this is also the case to some extent as regards hydrangeas. Some hybrid roses in 6 to 8-inch pots retailed quick at from $1 to $3 each, probably averaging $1.50 each. These were grown in quantity by August Dressel this year. He also had a lot of Hermosas in 4 to 5-inch pots that sold readily at 75 cents each, some extra large plants bringing as high as $3 each at retail.

Church decorations were not nearly as elaborate as formerly, but the increased sales in other directions more than made up for this deficiency.

One grower sent in a lot of tulips, 3 in a pot, but they did not sell well. The flowers stood exposure poorly and soon wilted over, and that killed any prospect of sale to the retail buyer. Among other stock that did sell well was a lot of well flowered heliotropes.

Certainly the plant trade was very satisfactory, and it gives indications of still greater enlargement another Easter.

The project of an international chrysanthemum show at the World's Fair next November is now in the hands of the Executive Committee of the local Directory. All financial obstacles have now been removed, as President Chadwick, of the Hort. Society of Chicago, has pledged himself to raise a guarantee fund of $14,000 to guard against any possibility of a deficit. The secretary of the Hort. Society has received many letters during the past week from prominent chrysanthemum growers all over the country expressing confidence in the project and pledging support, though a few fear that it is a little late to prepare for an exhibition of such magnitude. The next issue of the FLORIST will in all probability announce the exhibition as a certainty or as having been abandoned. In the latter event the Hort. Society of Chicago will at once issue a premium list for an exhibition of its own next November.

F. H. Andermann, of Lake Forest, is adding three new houses, two 20x80 and one 20x180, all to be devoted to roses for cut flowers.

At the meeting of the Florist Club last Thursday evening, the lawyers' opinion upon the legality of the cemetery companies engaging in the business of growing cut flowers for market was read. Its general tenor was in accordance with views expressed by the members of the club who brought up the subject, but as it did not cover certain points upon which the club especially desired light, it was referred back to the committee to have the omissions covered. One new member was elected.

The event of the evening was the reading of an essay upon growing Dutch bulbs in America, by Mr. E. Buettner, and which appears elsewhere in this issue. Quite a discussion followed the reading of the essay, during which Mr. Buettner went further into detail in response to queries, and gave as another strong reason in favor of home grown bulbs the statement that he had found while abroad that only the poorest bulbs were sent from Holland to America, all the best being used to satisfy European customers, while most anything was considered good enough for the American trade. While the length of time necessary to grow hyacinth bulbs to a marketable size might deter American growers, who like quick returns, this would not apply to tulips, of which salable bulbs can be grown in a single season. He found that while bulbs grown here, in heavier soil than recommended, were rough in appearance, the flowers they produced were larger and finer, and with the bulb forcer it was fine flowers that were wanted, regardless of the appearance of the bulb from which the bloom was cut. He believed that before many years the bulk of the forcing tulips and narcissus would be home grown. One member questioned whether the bulbs could be ripened as sucessfully here as in Holland but Mr. Buettner maintained that our climate was such as to give us even a decided advantage over Holland in this respect.

The fact that Mr. Geo. Klehm, of Arlington Heights, is going more and more into the growing of tulips and other Dutch bulbs every year, now growing nearly all the tulips he forces, and that his flowers equal any sent into this market, certainly argues well in favor of home grown bulbs. His soil is rather heavy and the bulbs he grows are not at all smooth looking, but as he sells the flowers and not the bulbs he is well satisfied.

At the next meeting of the club Mr. John Thorpe will read an essay on the growing of chrysanthemum plants and flowers for exhibition.

Worcester, Mass.

The second spring show of the Worcester Horticultural Society, held April 14, was not as large as usual. It seemed as if everybody was holding their stuff back for Easter, though flowers are plentiful.

For best tulips, narcissus and hyacinths H. F. A. Lange took first and Joseph Brierly, second. The tulips and hyacinths were unusually fine. Narcissus also made a fine show. Joost von Vondel, Von Goojen and Yellow Prince tulips attracted the most attention.

Best round basket, 1st, H. F. A. Lange, 2nd, H. B. Watts.

Probably the most popular feature of the show was the twenty vases of cut flowers. The exhibit in this class was

especially good, some fine vases of jacqs and Perles being shown. H. F. A. Lange, first; H. B. Watts, second.

The zonal geraniums were rather lanky and ill-shaped. Joseph Brierly took first in this class, H. A. Jones, second.

A. H. LANGE.

St. Louis.

The weather has been cold and cloudy for more than a week and roses are off crop. The sun made us a visit Friday.

Easter sales were very large and all the retailers were near to the bottom of their stock early in the afternoon of Saturday. Many would-be purchasers of roses failed to find what they sought. Bulbous stuff is plenty, but prices good.

Nearly every one here buys loose flowers. St. Louisans love flowers for themselves, and demand them in their natural simplicity and loveliness. They have no use for the ugly unnatural designs of the makers up of set work.

The windows of the retail stores were tastily decorated, those of J. W. North, Elleard Floral Co. and Chandler Floral Co. deserve special mention.

But little decorating was done in the churches. Small quantities of flowers were used, but were as a rule tastily arranged. The best piece of decorating seen by your correspondent was at the Church of the Messiah, the most attractive feature of which was a well proportioned white cross about which smilax was gracefully twined. The background consisted of specimen plants of Ficus elastica. Lilies were grouped about the cross and below it was a bank of cupheas and other plants. The arrangement had a very natural appearance, as if the plants had sprung up around a cross set up in a nook in some garden. It would have been a good object lesson to those who make Easter crosses by covering a frame with flowers in the most unnatural manner.

The St. Louis Florists' Club held its regular monthly meeting Thursday with 15 members present. Three new members were initiated as follows: Frank Rotter, Frank Bucksahl and Fred Berning; the two latter are of the Ayres Floral Co. Four applications for membership were laid over until the next meeting under the rules. The exhibition committee reported that the contract had been closed for the rental of Grand Music Hall for next fall's chrysanthemum show. The preliminary premium list is now ready and will be sent on application to E. Schray, 4101 Pennsylvania avenue. The subject of the day was the growing of chrysanthemums, by Julius Koenig. Votes of thanks were tendered the American Florist Co. for the copy of their new directory kindly furnished the club; the Florists' Exchange for a binder and a copy of the Exchange to fill the same; also to Mr. J. W. Dunford for his efforts in reporting the doings of the club to the AM. FLORIST.

The Gardeners', Farmers' and Fruit Growers' Association met week before last. This association was organized a little more than a year ago and now has a membership of between six and seven hundred. Its object is to establish a wholesale and retail market, large enough to accommodate all the growers of vegetables, fruits, flowers, plants and general farm products. It has already succeeded in getting a law passed by the state legislature requiring all cities that now have or shall hereafter attain to a population of 300,000 or more, to establish and maintain a general wholesale and retail market for gardeners, farmers and dairy men, accessible to the producer only. It is the intention of the gardeners to have adjoining this market a retail market to accommodate the green grocer, butcher and retail florist. At this meeting a committee of three was appointed to wait on the florists to see if they could be interested in the market question. Why would not such a market be of as great advantage to the florist as to the gardener and farmer? J. C. D.

Buffalo.

The rush of Easter (and a truly great rush it has been) is over. But the smoke and din is not sufficiently cleared away for me to give you a very reliable report of the business done, which shall follow next week. It is safe to say, however, that the volume of business done in this city far exceeded any previous Easter week. There are more people to do business, far more goods to sell and all hands were busy. Plants and cut flowers are the great bulk of the sales, and the flower above all others in demand, at any rate with the million, is the carnation.

Church decorations were certainly no more elaborate than former years, if as much so, and memorial designs seem to loose favor more and more each year, but to offset this a plant or vase of cut flowers is exchanged by friends, yes, by almost every one, and poor was the child yesterday who could not afford a carnation or rosebud for Easter Sunday.

The weather might have been worse, but not a great deal. Sharp frost every morning last week, followed by a cold biting wind, which made the delivering of flowering plants, lilies in particular, a difficult task to do satisfactorily, and caused much extra work and sorrow.

How the plant man who has been keeping his stock of bedding plants crowded up in corners in small pots and giving most space to lilies and other Easter stock will have to hustle to get his plants ready for the spring rush! It is "officially" announced among the craft here that Mr. Dan'l B. Long will on May 1 give up his store on Main street and remove to larger quarters on Washington street, where he intends to give his whole time and attention to the wholesale trade. Mr. Long is so well and favorably known that this undertaking should be a great success and the city is getting large enough to warrant our having a good commission dealer and florist supply man. G. S.

Cleveland.

Easter trade panned out splendidly. Plenty of flowers (to start with) and plenty of buyers. The latter held out the longer so that everything desirable was cleaned out before closing time.

There were some fine Jacks in the market, and plenty of them, which sold like hot cakes. One large grower shipped several hundred fine jacks to Chicago, Pittsburg and Buffalo, respectively, besides supplying his home trade and the neighboring towns.

There were plenty of candidums, callas and Harrisii, with a sprinkling of Longiflorum. As a rule lilies were not in as great demand this Easter as in former years. There was a great demand for carnations as usual, especially for colored varieties. There were some very fine Buttercup and Daybreak which sold readily at $1 per doz.

Violets were very scarce, and as usual in such cases, in great demand. Some stuff shipped in here from New York were violets in name only. Why can we not have good violets for Easter and the festive season following that day? I think it could be done by growing them in cold frames, and surely it will pay.

There was a large stock of Von Sions on hand but they all went and more could have been disposed of. One church at Canton, O., sent up for 1200 daffodils. They were used to distribute among the Sunday school scholars and their friends. What a delightful custom that would be (for the florists) if all the churches would make some such provision every Easter.

The maximum wholesale prices were as follows: Gontiers 6, Perles 8, Mermets and Brides 10, Jacks 20 to 25, carnations 3 and 4, Harrisii 18, Callas 15, bulbous stuff 5 to 6. L. F. D.

Toronto.

Before this is printed a considerable quantity of Easter eggs will have been destroyed and it is to be hoped that every enterprising florist will have deposited a good sized egg in the form of hard cash to his credit in the bank. If the weather is favorable the indications are that an immense increase of business over last year will be reported from this city, and in any case it will be quite as large.

Harrisiis have already been in the stores for some time, but the bulk will come in just about right. Last year a great part of the stock did not put in an appearance until some time after Easter day.

Roses are likely to be none too plentiful with prices firm at good figures, as Toronto has to supply many outside towns and cities in Canada.

Outdoor gardening operations are now in full blast and the dyspeptic householder who proposes to take exercise by doing a "little bit of gardening" may be seen in the gloaming prowling around armed with a toy wheelbarrow and the furnace shovel in search of free sod or black earth on the nearest vacant lot.

I notice the sum of $60,000 has been voted by the Provincial Legislature for laying out the grounds surrounding the new Parliament buildings in Queens Park now nearly completed. It is to be hoped that a thoroughly competent man will be appointed to carry out the job, because for the above amount something pretty good might be done. E.

Baltimore.

Easter is past, and after the whirlwind of trade that took up the last three days of the week comes the lull before the full storm of spring sales begin. Meanwhile the grower and dealer are each blessing themselves for having things, and cussing themselves for failing to have them when the rush came. Everything sold and brought good prices and the dealers that have recovered from the strain sufficiently to express themselves all are jubilant and declare it the best season for years.

Saturday was rather windy and dusty but Sunday was a model Easter, clear, calm, balmy, beautiful.

The churches were as a rule elaborately decorated and the improvement over former years was very marked; but the place to see flowers was Charles street in the afternoon, when that fashionable promenade was thronged with the beauty and culture of the city, and fair faces, fair garments, and still fairer flowers, made a bewildering display. Flowers were everywhere. The windows of residences were aglow with bloom in vases or on plants and each fair promenader wore a cluster of flowers varying from modest violets to costly orchids, the finest effect seen by

the scribe being a spray of three Lælia pupurata blooms worn by a lady so pretty that it was hard to say whether the flowers improved the wearer or vice-versa.

The general resolve is to grow or buy still more stuff next time. And for the present the pessimist who cries "over production" hides his diminished head.

MACK.

Hartford, Conn.

The spring exhibition of the Hartford Horticultural Society opened at 2 p. m. April 12th, continuing till 10 p. m. April 13th. It was a very creditable show and was well attended. The judges were Robt. Veitch jr. of New Haven and E. S. Geer of Hartford. Competitions for premiums in bulb classes, such as hyacinths, tulips, jonquils, etc., was confined mainly to A. N. Pierson, B. E. Beemer and J. H. Bairdain, each of whom had a fair share of 1st, 2d and 3d prizes. James Smith was first on cinerarias and cyclamen, specimen azalea, and Robert Patchet first on specimen hydrangea. The rose premiums all went to A. N. Pierson. J. H. Bairdain's carnations were very fine, as were the calceolarias from Stephen Delbar and collection of plants from W. B. May.

IN THE orchid collection of Mr. H. Graves, Orange, N. J., there are now in bloom a fine form of cattleya which Mr. Robert M. Grey, the gardener in charge, has named Cattleya Gravesiæ, and a fine variety of Cypripedium Lawrenceanum, which Mr. Grey has given the name C. L. var. punctatum.

The Nursery Trade.

Early Flowering Shrubs, April 11.

THE FRAGRANT BUSH Honeysuckle (Lonicera fragrantissima) is opening nicely, and Standish's bush honeysuckle is in full bloom. In style, color and sweetness of flowers both are much alike; the first-named is the rankest grower, and the last named the soonest done blooming. Both are very desirable shrubs.

JASMINUM NUDIFLORUM. Two years ago this was in as good bloom in December and January with us as it now is in early April. It is a very welcome winter shrub and its arching wands are studded all over with golden blossoms. But north of here it is not reliably hardy.

THE JAPANESE WITCH HAZEL (Hamamelis Japonica) was belated till March this year. This is really a first-class garden shrub: its branchlets from the ground up are covered with bright yellow fantastic flowers incomparably superior to those of the American witch hazel.

ANDROMEDA JAPONICA is in good bloom. It is earlier than our native A. floribunda, and easier to grow. Makes a pretty bushy little evergreen, and loves a little shade from warm sunshine and shelter from piercing winter winds.

RHODODENDRON DAURICUM began to bloom before the fierce weather of March had left us and now is quite showy. Although not an uncommon plant we seldom see it in gardens. An evergreen, erect shrub, 4 to 6 feet high, and with small, scant foliage. Its chief value consists in its hardiness and early flowers. Slow growing. A good associate for Ghent azaleas.

DAPHNE MEZEREUM is one of the handsomest of spring-blooming shrubs, bright, showy and long-lasting, and in a few weeks after the blossoms have gone, a crop of brilliant red berries ripen on the branches. This little shrub is very hardy, easy to cultivate and long-lived, but insists upon an open situation to grow in. We have the pure white flowered one and the red one growing side by side.

DAPHNE CNEORUM is coming into bloom. It is a compact trailing evergreen, small bushy species with delightfully fragrant flowers which appear in quantity in spring and again in lesser degree in fall. It grows with the greatest luxuriance in cool, northern and mountainous parts, but in other places, Dosoris for instance, it is not at all at home.

DAPHNE LAUREOLA, the European spurge laurel, has been in flower for some weeks, but its yellowish blossoms are inconspicuous, and the plant only valuable as a little evergreen undershrub.

DAPHNE BLAGAYANA is a precious little alpine species, with delicious white blossoms, and one of the earliest blooming, but it can never become popular because of its exceedingly slow growth.

ERICA CARNEA, also known in nurseries as E. herbacea, is a charming little bell heather, and has been in full bloom for two or three weeks. An exquisite plant for amateurs and one of the few heaths that thrive well with us. But I question if our nurserymen can get it up quick enough to make handling it profitable, for it is slow growing. We have the pure white flowered one also in bloom alongside of the red. These bell heathers are much unlike the Scotch heather (Colluna vulgaris) in size and habit of plant, shape of the flowers, and time of blooming.

CORNUS MASCULA, the Cornelian cherry, studded all over with umbels of small yellow flowers about the first of April, is a very striking shrub and well worth growing. The variegated-leaved forms are also in fine bloom, but they don't make such big bushes.

CORNUS OFFICINALIS from Japan resembles the Cornelian cherry, and is quite as hardy and showy. On our plants the flower umbels are larger and the pedicels longer.

DIRCA PALUSTRIS, our native heather wood, is the most perfect miniature likeness of a massive umbrageous tree one can imagine. Just now it is hanging full of little yellow blossoms. Although never showy it is always interesting, and both the young folks and the grown up people too are cutting off a little twig now and again to have some visitor try his strength in breaking it.

MAGNOLIA STELLATA takes the lead, its fragrant starry blossoms have begun to open. As a choice, small shrub this is a gem and one of the easiest of the genus to transplant. M. conspicua will begin to open in a day or two.

FORSYTHIA SUSPENSA in warm places has opened a few flowers.

ALTHOUGH SHEPHERDIA is in bloom its flowers are too inconspicuous for notice.

RED MAPLES are fine. Soft maples fading.

PRUNUS MOLLIS leads among plum trees with myrobolana close behind it. Beginning to open.

BERBERIS JAPONICA protected with some spruce branches is very healthy in foliage, and its yellow flowers are beginning to expand.

CORYLOPSIS PAUCIFLORA is a mass of drooping golden drop buds which in a few days will be a pretty sight. A compact, low, wide-habited bush, and one of the coming choicest little shrubs of the garden. Another species of golden drops namely, C. spicata, of more upright and rank growth and with longer little clusters of yellow flowers is also in bloom but the first named is the prettiest bush.

WM. FALCONER,
Glen Cove, Long Island.

New York.

The Commissioners of Accounts are investigating the workings of the horticultural department of the New York parks, and Superintendent Parsons and Superintending Gardener Woolson have been on the coals for nearly a fortnight. Parsons has demanded a hearing; Woolson has resigned rather than submit to an examination. Mr. Parsons' father and two brothers own and run the Kissena Nurseries at Flushing, but he himself is in no way interested in them, still an attempt has been made to show that he has specially favored the buying of trees by the parks from these nurseries. Mr. Parsons, however, indignantly denies this charge. Mr. Woolson owns and runs a nursery at Passaic, N. J., under the name of Meyers & Co., and witnesses have been called to show that he was very partial to having plants for the parks purchased from the Passaic nurseries. But to impartial people the majority of the witnesses examined by the commissioners have been of a very unsatisfactory sort and their testimony repugnant. Many of the witnesses consisted of disgruntled, disaffected, reduced or discharged employes, a disappointed competitor for Woolson's job, and a Ph. D. for whose entomological practical science neither superintendent or gardener seemed to have profound respect. Still this same insecticide compounder testified to Woolson's horticultural ignorance and submitted a list of 150 trees that had been wrongly named by the gardener and rectified by the man of bugs!

DELTA, COLO.—Carr & Hauser will establish a nursery here.

BRIGHAM CITY, UTAH.—The local press asserts that home nurseries are needed here.

MINNEAPOLIS. — Mr. Wyman Elliott, well known to nurserymen and fruit growers, has removed to California which he will now make his home.

BLOOMINGTON, ILL.—Mr. Markle, of Chicago, has offered $32,000 for Dr. H. Schroeder's nurseries in this city, but the doctor refused to take less than $36,000.

RACINE, WIS.—The Racine Fruit Growers Association has been incorporated, without capital. The incorporators are Frank Rasper, W. J. Hansche, A. J. Fidles and others.

RIVERSIDE, CAL.—S. C. Ward has sold to Mr. Chase for the Rochester Nursery Co., a plot of ground, consideration $1500. The company now owns 70 acres in one body and intends to establish a nursery here.

PORTERVILLE, CAL.—At the last meeting of the Porterville Horticultural Society a resolution was adopted petitioning the legislature of the state of California to repeal the law taxing non-bearing orchards. The resolution will be followed up by active work on the part of the society to secure the wished for legislation.

Catalogues Received.

Jacob W. Manning, Reading, Mass., ornamental nursery stock; same, hardy perennials; same, fruit stock; same, recently introduced hardy herbaceous perennials; C. Petrick, Ghent, Belgium, plants, A. Bowerman, Winnipeg, Manitoba, plants; John Laing & Sons, London, England, caladiums; Samuel C. Moon, Morrisville, Pa., nursery stock and plants; W. J. Hesser, Plattsmouth, Neb., plants; Shady Hill Nursery Co., Cambridge, Mass., new plants; Theodosia B. Shepherd, Ventura, Cal., plants; Geo. F. Moore, Milton, Ind., plants; W. & J. Birkenhead, Sale, Manchester, England, ferns; Highlands Nursery, Linnville, N. C., nursery stock; J. Chas. McCullough, Cincinnati, O., seeds, etc.; E. Bonner & Co., Xenia, O., plants; Pike & Ellsworth, Jessamine, Fla., seeds and plants; Thomas S. Ware, Tottenham, London, England, climbing plants; same, pæonies, primulas and hardy ferns; same, hardy florists' flowers; same, hardy perennials; Chas. Black, Hightstown, N. J., strawberry plants; Detroit Heating and Lighting Co., heating apparatus; D. S. Grimes, Denver, Colo., evergreen tree seed; Wheelock, Schifferli & Clark, Fredonia, N. Y., grape vines and small fruits; B. A. Elliott Co., Pittsburg, Pa., plants and ornamental nursery stock; Jules de Cock, Ledeberg, Ghent, Belgium, plants; E. W. Reid, Bridgeport, O., nursery stock; Pitcher & Manda, Short Hills, N. J., seeds and plants; E. H. Krelage & Son, Haarlem, Holland, bulbs; Isaac C. Rogers, Moorestown, N. J., nursery stock; F. Walker & Co., New Albany, Ind., plants and nursery stock; La Roche & Stahl, Philadelphia, Pa., plants.

AURORA.

Winner of the Ladenburg Cup for best pink

CARNATION

of recent introduction at Madison Square Garden, N. Y., Nov. 6, 1891. Price of Rooted Cuttings, $12.00 per 100; $100 per 1,000.

Send for general price list.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

ROSES.

	Per 100
Mermet, Bride, Niphetos 3-inch	$ 7.00
La France, Albany, 3-inch	8.00

VERBENAS.

Mammoth strain, pot plants	$20 per 1000	2.50
" " rooted cuttings	$8 per 1000	1 00
Moon Vines		4 00
Coleus, standard sorts		2 50
Alternanthera, standard sorts		2 50
Daisy Snowflake, nice plants		3 00
Monthly Pelargonium Fred Dorner		10 00
Chrysanthemums, finest varieties		3.00
Centaurea and Alyssum		2 50

CARNATIONS.

Tidal Wave	4 00
Hinze's White, Portia, Mrs Fisher	3.00

IRISH JUNIPERS.

Rooted Cuttings, now ready.....$15 per 1000 2.00

Joseph Heinl,
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See what FIVE DOLLARS will buy,

100 Nellie Lewis.	50 Portia.
100 Garfield.	50 Lizzie McGowan.
75 Pres. De Graw.	75 Wm. Swayne.
75 Mrs. Fisher.	25 Ohio.
50 Hinze's White.	25 Mrs. F. Mangold.
25 Tidal Wave.	

For cash received with order you will receive the above well rooted cuttings.
1000 2 yr. Diamond Grape Vines for sale cheap.

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CARNATIONS.

Send for trade list of ROOTED CUTTINGS.

J. J. STYER, CONCORDVILLE, PA.

ROOTED CUTTINGS.

GET MY LAST OF THE SEASON'S PRICES. ‡‡‡ A GENERAL ASSORTMENT FOR APRIL DELIVERY.

CARNATIONS AND VERBENAS.

LANCASTER BEAUTY VERBENA, a fine novelty, $2.00 per 100. Also a large stock of Mammoth and other best sorts mixed.
PANSIES—In bud and bloom, April 20th and later, at $15.00 per 1000. Almost every florist knows how good the strain is.
FRENCH CANNAS—A choice assortment, my selection, $5.00 per 100. Emile Leclaire, $3.50 per 100.

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Finest NOVELTIES of the year, and best Commercial varieties.

COLEUS.

Best assortment in the country. All the good Bedders.

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The new Fancy Coleus is a gem. Fine color and foliage. Pot plants, 6 for $1.

GET MY LIST BEFORE YOU PURCHASE.

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—— ROOTED CUTTINGS ONLY. ——

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CHRYSANTHEMUMS, 75 well selected prize winners. Guaranteed true to name.
CARNATIONS, 4 leading sorts. **ROSES,** 8 leading sorts.
VIOLETS, the Neapolitan. **COLEUS,** 8 best bedders, distinct colors.
ALTERNANTHERAS, 4 best sorts. Send for price list, now ready.

A. N. PIERSON, Cromwell, Conn.

GLADIOLUS SHAKESPEARE,

In 5-in. pots ready to bloom, $2 per doz.

CARNATION HECTOR.

Fine blooming plants, 5-in. $3 per doz.

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Fine blooming plants, 5-in. $2.50 per doz.

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Rooted Carnations.

	Per 1000	Per 100
HINZE'S WHITE	$10 00	$1 25
PORTIA	12 50	1 50
GRACE WILDER	12 50	1 50
SILVER SPRAY	12 50	1.50
LAMBORN	15.00	1.75

Cuttings put in Jan. 1, on Feb. 8 99 per cent. were well rooted.

DE WITT BROS.,
Cash with order. BRISTOL, PA.

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTY, EDGE & PURITAN,** besides the best novelties and a full list of standard sorts.

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NEW WHITE CARNATION.

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PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:
Rooted Cuttings.....$8 per 100; $70 per 1000.
From 2½-inch pots, $12 per 100; $100 per 1000.
Send for catalogue with full description of this and other varieties.

WOOD BROTHERS, Fishkill, N. Y.

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ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.
Also an unlimited quantity of pips of the above varieties. Send for price list.

JOSEPH RENARD, Unionville, Chester Co., Pa.

DO YOU GROW CARNATIONS?

We have Ben Hur, Golden Triumph, Puritan, Aurora, Pearl, Grace Darling, Silver Spray, Tidal Wave, Mrs. Fisher, Lizzie McGowan, Daybreak, Nancy Hanks and seventy other varieties. Send for trade list.

GEO. HANCOCK, Grand Haven, Mich.
Mention American Florist.

CARNATION
MRS. FISHER.

Extra strong plants.....$4.00 per 100
Rooted cuttings..... 1.50 per 100

BROWN & CANFIELD,
SPRINGFIELD, ILL.
Mention American Florist.

ROSES.

As I must make room I will sell **50,000** of the best greenhouse and bedding Roses, in perfect condition; fine young plants from 2 and 2½ inch pots, at **$30 per 1000.**

The following varieties to select from:

Queens Scarlet	Souv. de Victor Hugo
Clotilde Soupert	Paquerette
Papa Gontier	Souv. de Wootton
Safrano	Marie Van Houtte
Niphetos	Pierre Guillot
Solfaterre	Perle d'Or
Mignonette	Geo. Pernet
Catherine Merment	Etoile de Lyon
Gloire de Dijon	Luciole
Mlle. Frances Kruger	Bon Silene
Marie Guillot	White Bon Silene
Mme. Lambert	Hermosa
Mme. Jos. Schwartz	Comtesse de Labarthe
Mme. Scipion Cochet	Comtesse Riza du Parc
La France	

Also the following Hybrids at **$40 per 1000:**

Anna de Diesbach	Magna Charta
Giant des Battles	Alfred Colomb
Coquette des Blanches	Ulrich Brunner]
Queen of Queens	Dr Hogg
Mme Masson	Paul Neyron

I also have large plants of the above and other varieties in bud and bloom, in 4, 5 and 6-inch pots, at from $15.00 to $25.00 per 100.

The best and newest of Chrysanthemums, Carnations, and general greenhouse stock.

Safe arrival guaranteed of all plants shipped by Express.

Trade List mailed on application.

JACOB SCHULZ, Louisville, Ky.

ROSES.

From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and Duchess of Albany, at $5.00 per 100; Meteor, at $6.00 per 100; American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

CHRYSANTHEMUMS,
leading varieties, 2½-inch pots, $5 per 100.

We are headquarters for the Meteor and Climbing Perle des Jardins.
ALL FINE HEALTHY STOCK.

JOHN HENDERSON CO.,
Flushing, N. Y.
Mention American Florist.

ROSES.

WE STILL HAVE

50,000 ROSES in best assortment for immediate Delivery, ready for larger size pots, $30 per 1000, in fine assortment, our selection.

SEND LIST TO BE PRICED.

A very large stock of **Bedding Plants** at lowest wholesale prices, in all sizes.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

Mme. Pierre Guillot,

THE NEW PINK ROSE.

Orders booked now for delivery June 1st. Strong, selected stock, from 3-in. pots, at $8.00 per 100.

All the leading forcing Roses—first-class stock only—can be obtained during the season of

M. A. HUNT, Terre Haute, Ind.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES. Varieties for Winter Forcing.

Extra Stock. Our Pots are fully up to Sizes Stated.

	2½-inch. Per 100	3½-inch. Per 1000	3½-inch. Per 100
AMERICAN BEAUTY, grandest forcing rose	$ 8 50	$80.00	$15.00
AUGUSTINE GUINOISEAU, the pearl pink White La France	8.00		
BON SILENE, carmine	5.00		
CATHERINE MERMET, pink, finest form	4.50	40.00	10.00
DUCHESS OF ALBANY, deep rose	5.50		
LA FRANCE, standard pink	4 50	40.00	10.00
MADAME HOSTE, creamy white	5.00		
MADAME P. GUILLOT, deep creamy petals reflexed and bordered deep pink	8.00		12.00
NIPHETOS, purest white	4 50	40.00	10 00
PAPA GONTIER, red, very fine	4.50	40 00	10 00
PERLE DES JARDINS, best yellow	4.50	42.50	10.00
SAFRANO, old favorite	4.50		
SOUVENIR DE WOOTTON, crimson	6.50	60 00	12 00
SUNSET, tawny yellow, shaded apricot	4.50	40.00	10 00
THE BRIDE, most popular white	4.50	40 00	10.00
W. F. BENNETT, deep red	8.00		

BEDDING ROSES FOR SPRING PLANTING.

Agrippina, Bon Silene, Bride, Catherine Mermet, Comtesse La Barthe, Douglass, Devoniensis, Etoile de Lyon, Francisca Kruger, Grace Darling, Hermosa, Letty Coles, Madame Bravy, Madame Falcot, Madame Margottin, Marie Guillot, La France, M. Van Houtte, Malmaison, E. Metz, The Queen, Niphetos, Safrano, Madame Welche, Marie Lambert, Polyantha sorts, and others.

BEDDING ROSES, from 2-inch pots, per 100, $4.00; our selection, per 1000, $35.00.

HARDY ROSES.

	Per 100
H. P. ROSES, assorted, 18 to 24 inches	$12.00
MOSS ROSES. Plenty of pure white	12.00
CLIMBING ROSES, 1 year, assorted	10.00

J. C. VAUGHAN, P. O. Box 688, CHICAGO.

My old time Specialty, the Rose MME. CUSIN, per 100 plants, $5.50.

Also **THE BRIDE**.....per 100 $5.50 | **THE WABAN**.....per 100 $ 8.00
MME. WATTEVILLE, " 5.50 | **AMERICAN BEAUTY**..... " 10.00

Also BRIDESMAID, SUPPLY LIMITED.

From 2-inch pots:	"This is the most beautiful pink rose known."	From 3½-inch pots.
12 plants.....$ 9 00	John N. May.	1 plant.....$ 1.50
50 plants..... 25.00	M. A. Hunt.	12 plants..... 15.00
100 plants..... 40.00		25 plants..... 25.00

SUNNYWOODS GREENHOUSES. **FRANK L. MOORE, Chatham, New Jersey.**

ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

FRANCES B. HAYES, AND OAKMONT,

HYBRID BOURBON. **HYBRID REMONTANT.**

Extra fine Selected Stock for the Trade.

JOHN N. MAY, Summit, N. J.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

ROSES.

The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100, Waban, $6 00; Duchess of Albany, and Meteor, $5 00 per 100: La France, Bride, Sunset $5.00 per 100: Perle, Mermet, $4 50: Bennett, $8 00 per 100.

Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

C. A. SMITH FLORAL CO.,
77 South Seventh St. Minneapolis, Minn.

YOUNG ROSES.

JACQS, LAING, MAGNA CHARTA, LUIZET, 3-inch pots.

MERMET, BRIDE, PERLE, GONTIER, WOOTTON, 2½-inch pots.

FINE PLANTS. WRITE FOR PRICES.

THE FLORAL EXCHANGE,
614 Chestnut St., Philadelphia, Pa.

ROSA CANINA STOCKS

SCHULTHEIS BROS.,
STEINFURTH, NAUHEIM, HESSE GER.

1000 extra choice, 30s, 1 year seedlings.
10,000 plants, extra choice 250s, 1 year seedlings.
1000 plants, 1st choice, straw thick, 12s, 1 yr. seedlings.
10,000 plants, 1st choice, straw thick, 11Ss, 1 yr.
Cash with order. Send via Bremen Loyds.

Roses. Orchids.

Mermets, Brides, and Mme. Hoste, strong plants from 2-inch pots, ready to shift into 3-inch, $4.00 per 100.

Send Stamp for Special Orchid Bargains.

DAVID CLIFFE, FLORIST,
GERMANTOWN, PHILADELPHIA, PA.

GEO. W. MILLER,
WHOLESALE FLORIST,

1748 N. Halsted Street,
Chicago, Ill.

ROSES AND PALMS A SPECIALTY.

E. G. HILL & CO.,
Wholesale Florists,

RICHMOND, INDIANA.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

IN PREPARING your premium lists for 1892 do not fail to have printed thereon the name and full address of the secretary or other official with whom entries should be made and to whom correspondence relative to the exhibition should be addressed. This is especially necessary where the organization is located in a large city. For while letters without street address may possibly reach the secretary, possible correspondents feel doubtful about it and many would feel too doubtful to try, knowing that there is a possibility that the secretary may live in a suburban town and have no city address. This applies with equal force to club stationery. If it is considered best not to have the names of the officers on the letter heads, etc., so the same style may be used by successive sets of officers, then provide the secretary with a rubber stamp with which he may impress on each letter he mails his name and full address. Make communication with your organization just as easy as possible.

A SAMPLE floral wire design has been sent us by the Barbee Wire and Iron Works, Chicago, a novel feature of which is that it has been tinned, thereby soldering every joint and giving the design a bright appearance as well as adding to its strength, and avoiding the possibility of rusting. It seems a decided improvement over the usual plan of dipping the designs in paint.

SOME VERY fine clematis blooms are sent us by Mr. F. A. Baller, Bloomington, Ill. The varieties sent were Lucie Lemoine, Duke of Norfolk and Patens Sieboldii. One bloom was four and one-half inches across. Mr. Baller writes: "I think you will agree with me in thinking them very handsome to grow in large pots or tubs for decoration plants."

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As florist and gardener. First-class references from present and previous places. Nationality English; married; age 38 years. Address Box 325, Riverside, Ill.

SITUATION WANTED—By a thorough, practical rose, carnation and forcer of all kinds of bulbs. Also grower of all sorts of decorative and bedding plants. Capable of taking charge of a large place. Good references. State wages. Address FLORIST, 128 La Salle street, room 7, Chicago.

WANTED—Good man to work in greenhouse and outdoors. Steady work to right party. Address G. HEINRICHS, Crete, Ill.

WANTED—May 1st, experienced rose grower. Married man with small family preferred. Address M, care Welch Bros., 165 Tremont St, Boston.

WANTED—To lease or buy several greenhouses, some ground, with or without dwelling, near good market. W J, 95 Wakeman Ave., Newark, N.J.

WANTED—Assistant gardener in commercial greenhouse; unmarried; Skandinavian preferred. Apply before 8 a. m., 565 W. Superior St. Chicago.

WANTED—A practical florist looking for a good location for business, proof profits over $100 per month, home trade, should address TWIN CITIES, care American Florist.

WANTED—Competent man as assistant in commercial greenhouses. Address, stating references, experience, wages desired, etc., THE HUNTSMAN FLORAL CO., Cincinnati, O.

WANTED—A strictly sober and reliable man; must be a good grower of cut flowers of all kinds; a good salesman, and fair knowledge of design work. Apply with references to R, care American Florist, Chicago.

WANTED—A strictly sober man for small commercial place. Must be good grower of cut flowers of all kinds, and fair knowledge of design work. Wages $25.00 per month and board. Apply with references to EDW. AUSTIN, Effingham, Ill.

WANTED—Active man with capital to take part interest in rose, carnation and violet growing to sell at wholesale. Just about building new greenhouses for the business within street car connections on his own property. Address HORTUS, 31 Public Square, Room 7, Cleveland, O.

TO RENT—Greenhouses with one acre of land. For particulars apply to SARAH W. STORY, Brighton, Mass.

FOR SALE—One Hitchings saddle boiler No. 3, nearly new; cost $65, will sell for $30. F. FRENCH, 128 E Genesee St., Syracuse, N. Y.

FOR SALE—At a bargain, a florist's business in a thriving city near St Paul. Proof profits for 1891 over $1,300. For particulars address SELLER, care American Florist.

FOR SALE—Small greenhouse attached to dwelling house. Everything in good condition, and room for extension if desired. Will sell entire property. Address MRS. Z. M. CHURCH, 219 Terrace St., Janesville, Wis.

FOR SALE OR RENT—Two greenhouses well stocked, one 18x75 and one 12x30, potting shed 18x18, six room dwelling, large barn, ¾ acres ground, on the main line P. R R., 15 miles from Philadelphia. For further particulars apply to A M R, Devon, Chester Co., Pa.

FOR SALE.

Nine Green Houses containing about 10,000 feet of glass, stocked with carnations and heated by steam. Also grapery 80 feet long, recently built; about 30 acres of choice land, abundance of fruit of all kinds, large commodious house containing 15 rooms, including bath room, a new barn and necessary out-buildings, within 5 miles of Philadelphia and one mile from station. Will be sold on account of ill-health. Address I. LARKIN, Toughkenamon, Chester Co., Pa.

FOR SALE.

Nine greenhouses, containing 16,000 feet, of glass, with 8 lots of land, each 40x175 feet elegant dwelling with 11 rooms; barn, wagons, cart, horse and harnesses. The above property is located in one of the most beautiful western cities, within 5 miles of the city hall, within one square of electric and cable cars: the same will be sold cheap, as the owner is not able to run the same himself. The above houses have only been built 5 years; modernly constructed, 12x18 double thick best quality glass; heated by steam; abundance of water both from wells and cisterns. They are filled with palms, ferns, roses, carnations and bedding plants of all descriptions, and all will go with them. Address J M, care American Florist, Chicago.

HARDY WATER LILIES AND LOTUS.

Egyptian Lotus (Nelumbium Speciosum), each,	$1.50
Japanese Lotus (Nelumbium Nuciferum) "	1.50
Nymphæa alba candidissima	1.50
Nymphæa odorata rosea	1.00
Nymphæa Marliacea chromatella	1 50

Tropical varieties; Night blooming varieties, and other choice aquatics. Catalgues free.
WM. TRICKER, Dongan Hills, (S. I.) N. Y.

Chrysanthemums.

ROOTED CUTTINGS, $2.00 per 100: E. G. Hill, Lincoln, Kioto, L. Canning, Mrs. A. Hardy, Belle Hickey, L. Bird, Mrs. Fottler. $3.00 per 100 in 2-inch pots.

C. E. WELD, Roslindale, Boston, Mass.

G. W. Miller & Son,

COLLECTORS, GROWERS AND DEALERS IN CURIOUS

CACTI PLANTS,

HAVANA, TEXAS.

Violet Runners,

MARIE LOUISE.....$5.00 per 1000
from 2½-inch pots.....$5.00 per 100

M. ROSCOE SAUNDERS,
354 S. 4th St., AURORA, ILL.

OUR INCREASING BUSINESS

MADE

LARGER QUARTERS

absolutely necessary, and on MAY 1 we will Remove to

34 & 36 RANDOLPH STREET,

Where we will have much more room and greater conveniences.

KENNICOTT BROS.,

WHOLESALE FLORISTS,

CHICAGO, ILL.

KENNICOTT BROS.
Wholesale Florists,
27 EAST WASHINGTON STREET,
CHICAGO, ILL.
If you do not receive our regular monthly price-list write for same
WIRE WORK A SPECIALTY.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

R. J. MENDENHALL,
The Pioneer Florist of the Northwest.
—ALL KINDS OF—
CUT FLOWERS IN SEASON,
At Retail and Wholesale
And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist. Send for Catalogue.
R. J. MENDENHALL,
MINNEAPOLIS, MINN.

TRAILING ARBUTUS.
WE ARE HEADQUARTERS FOR THIS BEAUTIFUL WILD FLOWER.
WIRE your orders early so we can "rush" them as they come in from the woods.
WISCONSIN FLOWER EXCHANGE,
131 Mason Street, MILWAUKEE, WIS.

THE
INVISIBLE BOUQUET PIN
75 CENTS PER GROSS.
INDISPENSABLE TO THE RETAIL FLORIST.
Send for my Primer, free.
GEO. B. WILLCOX, Bay City, Mich.

FLORAL DESIGNS,
The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Wholesale Markets.

Cut Flowers.

BOSTON, April 19.

Roses, Perle, Sunset	4.00@6.00
" Mermets, Brides	6.00@8.00
" Gontier, Niphetos	3.00@5.00
" Jacq, Hybrids	10.00@15.00
Carnations	2.00@3.00
Violets	.50
Valley, tulips	3.00@4.00
Daffodils	4.00
Narcissus poeticus	2.00@3.00
Mignonette	.50@1.00
Stocks	2.00
Pansies	.25
Sweet peas	2.00@2.50
Spirea	2.00@3.00
Candidums	4.00@6.00
Harrisii	8.00@10.00
Smilax	25.00
Adiantum	1.00@1.50
Asparagus	50.00

NEW YORK, April 19.

Roses, Bon Silene	2.00
" Gontiers	3.00
" Perle, Niphetos, Sunset	4.00
" Mermet, Bride	6.00@8.00
" Cusin, Watteville	6.00
" Hoste, Bennett	6.00
" La France	8.00@10.00
" Albany	8.00@10.00
" Beauties	15.00@35.00
" Jacqs	10.00
" Hybrids	25.00
Smilax	20.00@25.00
Carnations, long	2.00
Mignonette	2.00@4.00
Narcissus Romans	4.00
Valley, Tulips	3.00@4.00
Harrisii	5.00@8.00
Adiantums	.50@1.00
Lilac, per bunch	.75@1.00

PHILADELPHIA, April 19.

Roses, Brunners	50.00
" Baroness	50.00
" Laings, Magnas	35.00
" Beauties	30.00@35.00
" La France, Albany	8.00@12.00
" Mermets, Brides	8.00@10.00
" Jacqs	12.00@15.00
" Cusins, Watteville	4.00@6.00
" Perles, Niphetos, Gontiers	4.00@6.00
Valley	3.00@4.00
Carnations	2.00@2.50
Violets	.75@1.00
Alyssum	.30
Sweet peas	3.00
Daffodils	5.00
Tulips	3.00@5.00
Harrisii	10.00@12.00
Candidums	5.00@6.00
Callas	10.00@12.00
Smilax	20.00
Adiantums	1.00@1.50

CHICAGO, April 19.

Roses, Perle, Niphetos	5.00@6.00
" Bon Silenes	3.00@4.00
" Mermets, La France	6.00@8.00
" Bennetts, Dukes, Woottons	6.00@8.00
" Albany, Bride	6.00@9.00
" Am. Beauties	15.00@25.00
" Jacq	12.00@18.00
Carnations, long	2.00@2.50
" short	1.50@1.75
" long fancy	3.00@4.00
Romans, Valley, Narcissus	3.00@5.00
Candidum, short	4.00@6.00
" long	6.00@8.00
Harrisii	18.00@20.00
Callas	15.00
Violets, Adiantum	1.00@1.50
Smilax	25.00@28.00
Bouvardia	1.00@2.00
Heliotrope	1.00@1.50

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

EDWARD C. HORAN,
WHOLESALE FLORIST
34 W. 29TH ST., NEW YORK.
SUCCESSFUL SHIPPING OUR SPECIALTY.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.
Mention American Florist.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS
51 West 30th St., NEW YORK.

WHOLESALE FLORISTS
La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.
PHILADELPHIA.

SAMUEL S. PENNOCK,
(Successor to C. E. & S. S. PENNOCK,)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

ELLISON & KUEHN,
WHOLESALE
FLORISTS.
1122 PINE STREET
ST. LOUIS, MO.
A complete line of Wire Designs.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
A 1 IVY LEAVES.
BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.

YOUNG BROS.,
20 West 24th Street, NEW YORK CITY.
THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

McLEOD & DENHAM, seedsmen at Los Angeles, Cal., have dissolved.

F. C. HUNTINGTON, of Indianapolis, will sail for Europe May 18 for the benefit of his health.

MR. DAVID CLIFFE, representing Z. DeForest Ely & Co., of Philadelphia, is making a western trip.

SAN FRANCISCO.—The Sherwood Hall Nursery Co. has acquired the business of the Northern Seed Co. and will continue same at 427 and 429 Sansome street.

NEW YORK.—"Working nights" is the short but expressive reply given by the seedsmen to the enquiry "How's business?" Mr. Carroll Elliott has been preparing for the summer leisure by purchasing a yacht. This was a simple matter, but the selection of a name for the boat is not so easy, and he has finally asked for counsel and suggestion from Mr. Kidd of John street, on this important matter. Whether it will be called the "Seedsman" or the "Pirate Kidd" or a combination of the two is not yet settled.

SEED ORDERS.—A large firm of London seedsmen, writing to us of their experience as seedsmen, deplore, together with, as they believe, the whole trade, the withholding of orders for seeds, &c., when periods of winterly weather like that lately experienced occur, with the result that the large staff provided to meet the expected large amount of business are for the time only partially employed. Then the weather changes, and with the first appearance of sunshine the seedsman is overwhelmed with orders, and the employes are enforced to work very hard, and for a greater number of hours than would be desired either by the employer or the purchaser, and which we feel sure, if it were brought to the notice of the latter, they would desire most carefully to avoid by sending their various orders as early in the year as possible, without paying heed to the weather then prevailing.—*Gardeners' Chronicle.*

Moon and Sweet Peas.

The first lot *sown under the new moon* will grow fast and blossom most beautifully but *will not bear fruit.* The second will blossom and bear very little. The third will blossom beautifully and bear fruit in abundance. The fourth will scarcely rise from the ground.—*Ida I. Beals in Mayflower.*

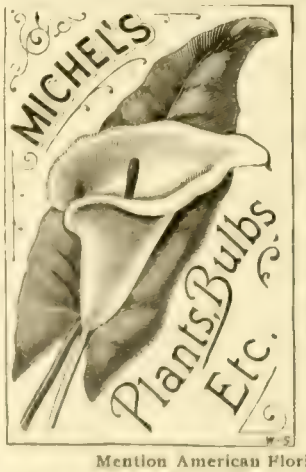
This evidently accounts for the short crop of sweet pea seed.

WE HAVE received from Mr. L. E. Marquisee, Syracuse, N. Y., a rose bloom, half pink and half white, evidently half Mermet and half Bride. On one outside petal the division was as exact as if laid out with a rule.

THE St. Louis Florists' Club has issued an announcement of premium classes for its chrysanthemum show Nov. 8 to 11 next. Copies may be had on application to the secretary, Mr. Emile Schray, 4101 Pennsylvania avenue, St. Louis.

WE BOOK NOW:
FOR SUMMER AND FALL DELIVERY
ORDERS
Roman and Dutch Hyacinths, Paper whites, Daffodils and other Narcissus, Tulips, Freesia, Spirea, Crocus, Lilium, Harrisii, Candidum, Longiflorum, Auratum, Calla, Lily of the Valley, etc.
Roses, Palms, Azaleas, Clematis, Rhododendron, Laurus Tinus, Laurus Nobilis, etc.
TERMS AND ESTIMATES ON APPLICATION
ADDRESS:
AUGUST RÖLKER & SONS,
136 & 138 W. 24th St.,
ADDRESS LETTERS: STATION E.
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40 ACRES OF FRENCH BULBS IN CULTIVATION.
The most extensive cultivators in the South of France of
EARLY WHITE ROMAN HYACINTHS,
Lilium Candidum, Paper White Narcissus, Grandiflora, Double Roman, Incomparabilis, Aurantius double, Von Sion, Trumpet Major, Freesias, Allium, Anemones fulgens, A. Rosette, very early, and Cardinal's Hat, Amaryllis Vittata, Etc., Etc.
BENJAMIN RIMBAUD, Bulb Grower,
KNIGHT OF THE AGRICULTURAL MERIT, TOULON, VAR, FRANCE.
WILL SEND on demand THE LIST OF HIS PRICES for the aforesaid Bulbs, to be delivered free Toulon Railway Station, and also free from packing and carriage expenses on board TO NEW YORK.



Write for wholesale list.
MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.
Mention American Florist.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN. CONN.

To Seed Growers.
I want to contract with reliable growers for flower and vegetable seeds, and tuberose and other bulbs. Write, mentioning your specialties.
F. N. PERKINS, Kenton, O.
Mention American Florist.

DUTCH BULBS.
JOHN BARTH BOS,
OVERVEEN, near Haarlem, HOLLAND.
— ESTABLISHED 1868. —
Large grower of Hyacinths, Tulips, Narcissus, Crocus, Lilies, etc.
Before ordering bulbs, write me for a catalogue.

KAE SHEAN CO.,
Growers of CHINESE SACRED LILY,
HONG KONG.
Goods can be obtained at the following houses:
John L. Childs..... Floral Park, Queens Co., N. Y.
Peter Henderson & Co., 35-37 Cortlandt St., New York.
J. C. Vaughan....146-148 W. Washington St., Chicago.
F. R. Pierson.....Tarrytown, N. Y.
Orders for another year must be made before April 1st, either at the American houses above, or at the Hong Kong house.
Mention American Florist.

HYACINTHS, TULIPS,

DAFFODILS, NARCISSUS, LILIES,

AND ALL OTHER BULBS FOR FORCING, IN FINEST QUALITY, AT REASONABLE RATES.

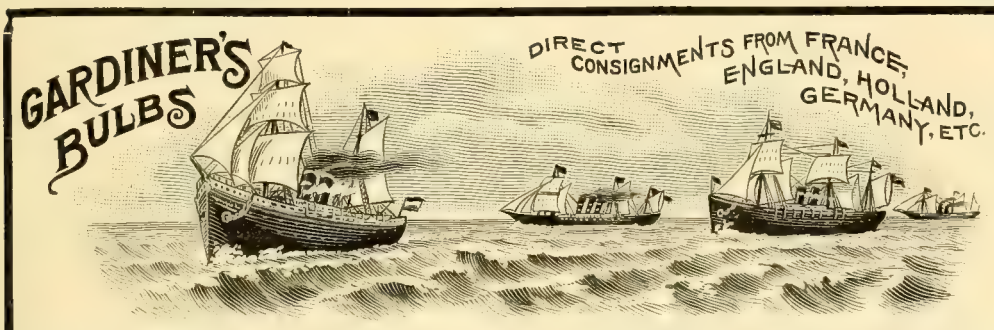
If any of our friends have not received a copy of our Catalogue of 1892, should write for one at once.

Please ORDER ON RECEIPT of our Catalogue.

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, HOLLAND.



WE can give you the inside track on forcing bulbs, both in quality and price. Write us at once. Special Wholesale Price List now ready. Don't fool with poor stock. Get your supplies from us.

J. GARDINER & CO.

BULB GROWERS AND IMPORTERS,

PHILADELPHIA, PA.



BULBS.

Closest IMPORT rates f. o. b New York City can be had from our N. Y. office, 12 Barclay St. We request the opportunity of estimating for shipment from New York.

J. C. VAUGHAN,

And 12 Barclay Street, NEW YORK. CHICAGO.



Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS,

AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878 SAN FRANCISCO, CAL.

ROMAN HYACINTHS, PAPER WHITES,

Lilium Harrisii, Berlin Pips Lily Valley, Tuberoses, Azalea Indica, etc.

PRICES QUOTED and ORDERS BOOKED FOR SUMMER AND FALL DELIVERY.

C. H. JOOSTEN, Importer,

3 COENTIES SLIP, NEW YORK.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY:

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

LILIUM HARRISII, ETC.

We are now booking orders at the following low prices:

		Per 100	Per 1000	Per 10,000	Per 50,000
LILIUM HARRISII,	4 to 5 inches circum	$ 2 50	$19 00	$17 00	$16 00
	5 to 7 " "	3.25	25 00	24.00	22 00
	7 to 9 " "	5.50	48 00	47.00	46 00
	9 to 11 " "	10 00	90.00		

Guaranteed full measurement.

				Per 1000	Per 1000
LILIUM LONGIFLORUM,	Bermuda grown, at same rates.				
" CANDIDUM,	d. simples, st ong.	3 50	25 00		
ROMAN HYACINTHS,	white, 4 inches circum	2 00	13 00	12.00	11.00
" "	white, 4½ to 5½	3.00	20 00	19 00	18 00
" "	white, 5 to 6	3 50	25 00	24 00	23.00
DOUBLE ROSY,	rosy, tendre, selected	2 50	16 00	15 00	
ITALIAN,	blush white, selected	2 75	19 00	18 00	
BLUE ROMAN,	selected	2 75	18 00		
TOTUS ALBUS	(Paper White) Narcissus, selected	1.25	7 00	6 50	
"	gr. d. Narcissus selected	2 00	12 00	11 00	
DOUBLE ROMAN NARCISSUS,	selected	1 50	10.00		
FREESIA REFRACTA ALBA,	selected	1.25	8.00	7.50	
ORNITHOGALUM ARABICUM,	selected	2.50	20 00		
TRUE BERLIN VALLEY PIPS			9 00	8.00	7.50

Half quantities at same rates.

HULSEBOSCH BROS., Bulb and Plant Growers,

OVERVEEN, near Haarlem, HOLLAND.

Address for the U. S., A. HULSEBOSCH, P. O. Box 3118, NEW YORK CITY.

R. VAN DER SCHOOT & SON,

HILLEGOM, - HOLLAND,

Largest Growers of

HYACINTHS, TULIPS, NARCISSUS,

SPIRÆA, LILIES OF THE VALLEY, ETC.

HEADQUARTERS FOR HIGH GRADE FORCING BULBS.

Wholesale Importers should write us for Prices.

OUR NEW TRADE LIST NOW READY.

IMPORT PRICES NOW READY.

HARRISII, ROMANS, FREESIAS, VON SIONS, VALLEYS, ETC.

W. W. BARNARD & CO.,

6 and 8 North Clark Street, CHICAGO.

Coloring Hydrangeas.

To color Hydrangea hortensis blue I mix with the soil iron filings and grind stone "slime" (dust). Shortly before flowering iron filings are mixed with water, for watering twice a week. If hydrangeas are repotted in such soil as above, five or six weeks before flowering, the flowers will be red and blue.

So. Butte, Mont. JOE SMELY.

A ROCHESTER florist sends us a clipping from a local paper, evidently a paid reading notice, in which the advertiser is credited with no less than 185,000 feet of glass. He writes: "The enclosed adv. shows a large establishment in this vicinity that has probably never been reported before, and as florists like to visit others' places it would be well to know where these 4 acres of glass are." On looking up the gentleman in our new directory we find him listed as a store florist only, without any greenhouses of his own. But our correspondent must not be too hard. What is a trifle of 4 acres of glass (on paper) in these breezy times!

KOSTER & CO.

BOSKOOP, HOLLAND.

AZALEA MOLLIS, CLEMATIS,
Rhododendron Hybrids,
Catawbiense and other sorts.

Roses and Lilacs cultivated in pots.

PAEONIES, ETC., ETC.

VINES.

	Per 100
Allamanda Hendersonii, 2½-inch pots,	$4.00
" " 4-inch pots,	8.00
Jasminum Grand Duke, 2½-in. pots,	4.00
" " " 4-inch pots,	10.00
" Multiflorum, 2½-in. pots,	4.00
" " 4-inch pots,	6.00
Cissus discolor, 2½-inch pots,	5.00
" " 3½-inch pots,	8.00

The above named plants are strong, well-rooted and healthy.

FRANCIS MORAT'S SONS, Florists,
No. 606 Fourth Ave., LOUISVILLE, KY.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, France.

A general assortment of Fruit Tree Stocks such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your orders elsewhere. Agents for U. S. America and Canada:

C. C. ABEL & CO., P. O Box 920, New York.

Tuberous Begonias.

Single mixed, per 100 $2 50.
Separate colors, " 3.00.

READY NOW.

No double ones for the present.

BRAUER & RICHTER, McConnelsville, O.

To the readers of the AMERICAN FLORIST:

By acknowledging that you saw this in the AMERICAN FLORIST I will for the next two weeks from the date of this paper, send you for $5.00, 1000 Rooted Coleus Cuttings of at least 25 kinds; the selection of sorts to remain with us. No cull stock. Cash with order.

J. E. FELTHOUSEN, Florist, Schenectady, N. Y.

TUBEROUS BEGONIAS, Seeds and Bulbs.

Our own grown Superior Strains.

TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

TESTED SEEDS of VICTORIA REGIA and all other WATER LILIES.

FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

ROSE HILL NURSERIES. SIEBRECHT & WADLEY, New Rochelle, N. Y.

TREES { ORNAMENTAL / Fruit and Nut Bearing } DECIDUOUS AND EVERGREEN. Including the NEW CHESTNUT NUMBO.

HEDGING, FLOWERING SHRUBS AND VINES.
Grapes, Small Fruits in Variety, Asparagus, Etc.

Send for Trade List and Estimates before purchasing.

Mention this paper. THE WM. H. MOON COMPANY, Morrisville, Bucks Co., Penna.

Hardy Perennials.

Now is the time to plant the following first-class Hardy Herbaceous Plants for Florists' purposes. Once planted they live forever, and require no care, while they are very useful during the spring and summer months for cutting purposes:

Achillea "The Pearl", at 5c
" millifolia rubra, at 9c
Anemone japonica, at 6c
" Japonica alba, at 6c
" Pennsylvanica, at 6c
Aquilegia vulgaris alba, at 8c
Campanula persicifolia, at 10c
" persicifolia alba plena, at 12c
Coreopsis lanceolata, at 6c
Delphinium in mixed colors, at 9c
Dble. Scotch Pinks, white or rose color, at 8c
Doronicum plantagineum excelsum, at 15c
Gaillardias, at 10c
Helianthus Maximilianii, at 12c
" rigidus semiplenus, at 12c
Iris Germanica, mixed varieties, at 3c
Lychnis Chalcedonica, at 10c
Monarda didyma, at 8c
Myosotis palustris semperflorens, at 8c
Pæonies, in mixed varieties, at 18c
Poppies in varieties, at 10c
Pentstemon in varieties, at 8c
Phlox in varieties, at 6c
" The Pearl, at 10c
Rudbeckias, at 9c
Salvia pratensis, at 10c

Good strong plants in quantities not less than 25 of each.

ARTEMISIA PONTICA, with fine silvery, fern-like foliage, perfectly hardy, and exceedingly useful for bedding, especially for dry situations. $35 00 per 1000.

PITCHER & MANDA,
United States Nurseries, SHORT HILLS, N. J.

Mention American Florist.

CARNATION PLANTS.

From pots and flats. Cold grown stock. No carnation rust.

PANSIES	$1 00 per 100
GERANIUMS, 2-inch	2.50 per 100
" 4-inch	8.00 per 100
FUCHSIAS, 2-inch	2.00 per 100
" 4-inch	7.00 per 100
BEGONIA METALLICA, 4-inch	1.50 a doz.
ALYSSUM COMPACTA, 2-inch	2.00 per 100
DAISY SNOWFLAKE, 4-inch	6.00 per 100
PYRETHRUM, 4-inch	.75 a doz.
CINERARIA MARITIMA, flats	1.50 per 100
LOBELIA CRYSAL PALACE, flats.	1.50 per 100

Cash with order.

THE COTTAGE GARDEN,
EAST MORICHES, N. Y.

For Spring Potting.

The best time to pot off small Palms and Foliage Plants is NOW, and they will then be ready to fill houses with for summer, after bedding plants are cleared. Cheap plants as follows:

	Per 100
Aralia Sieboldi, 2-inch pots	$10.00
Pandanus utilis, 2-inch pots	10.00
Areca lutescens, 2-inch pots	10.00
Dracæna terminalis, 2-inch pots	8.00
Latania borbonica, seed boxes	4.00
Cocos Weddelliana, seed boxes	8.00
Cocos plumosa, seed boxes	8.00
Asparagus plumosus, 3½-inch pots	40.00
Begonias, tuberous, single, finest flowers, distinct colors	10.00
Begonias, tuberous, double, very fine.	20.00

(Begonias are started, but can be mailed for next three weeks)

JOHN H. LEY,
Tropical Nursery, Anacostia. WASHINGTON, D. C.

Mention American Florist.

Association Flora, Boskoop, Holland.

NOW ON HAND IN NEW YORK:

25,000 Dwarf budded Roses.
3,000 Rhododendrons in sorts.
3,000 Azalea Mollis and Ghentish in sorts.
2,000 Clematis, extra strong plants.
Trees and Shrubs, Hydrangeas, Spiræas, Lilies, Pæonias, Deutzias and other

PLANTS FOR FORCING AND DECORATING.

Address P. OUWERKERK,
P. O. Box 1845, NEW YORK CITY

Catalogue on application.

Mention American Florist.

CYDONIA JAPONICA

For HEDGING. $5.00 per 100.

AZALEA AMŒNA

$3.00 per dozen. All kinds of

Ornamental Nursery Stock.

Send for Descriptive Catalogue and Wholesale List.

SAMUEL C. MOON, Morrisville, Bucks Co., Pa.

BLOOMINGTON (PHŒNIX) NURSERY.
600 ACRES. 13 GREENHOUSES.

TREES AND PLANTS

We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, Shrubs, Roses, Vines, Small FRUITS, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS. Priced Catalogue mailed free. Established 1852.

PHOENIX NURSERY COMPANY
Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.



GARDINER'S STAR COLLECTION OF SUMMER BLOOMING GLADIOLI.

WE offer a grand lot of selected **named varieties** this week at figures we have never before touched. If you want something really fine at a low figure this is an opportunity not to be missed.

Offer No. 1. TEN CHOICE NAMED SORTS including such beautiful and favorite sorts as Princess of Wales, Napoleon III, Eugene Scribe, Ceres, Gen. Sherman, Lamark, etc., in equal parts, at $3.00 per 100; each sort distinctly labeled and securely packed to ship safely any distance.

Offer No. 2. FOUR DISTINCT COLORS, (without names), scarlets, whites, pinks and variegated; each color separate, (in equal parts), at $2.00 per 100; all distinctly labeled and securely packed.

Offer No. 3. We can also offer OUR SUPERB MIXTURE ON ALL COLORS MIXED consisting of the best French and American hybrids in endless variety of color and containing the largest proportion of the lighter shades, at $1.75 per 100; $15 per 1000. Also OUR FINE MIXTURE (which is almost as good, although not having quite so many varieties in it and having a somewhat larger proportion of the darker shades), at $1.25 per 100; $10 per 1000. Order early, and mention the AMERICAN FLORIST to secure these special rates. This offer is not binding after our present stocks are exhausted.

THE BEAUTIFUL SPIDER LILY.

We have a fine lot of large, sound bulbs of this. Our price has been $8.00 per 100 until this week; but we offer now at $4.00 for prompt orders to clear. The Spider Lily is an excellent plant either for pots or in the summer garden. Free flowering and very fragrant.

BEGONIAS.

The great "Gold Medal" strain. If you have not secured your supplies of these do so at once. The way stocks are melting away is a caution. We have six separate colors in the **SINGLES** and **EIGHT** in the doubles. Colors separate (equal parts), $10 per 100 for **SINGLES**, and $20 per 100 for **DOUBLES**; 25 at 100 rates. **MIXTURES** five per cent. less than these figures.

JOHN GARDINER & CO.,
Seed and Bulb Growers, Importers and Dealers, **PHILADELPHIA, PA.**

When in want of anything in Seeds or Bulbs, write us for prices before ordering elsewhere.

LAST CALL.

In order to make short work of what stock of the following still remains on the place we make the following prices, good till **April 24;** if order is received after that date prices will be the same as in FLORIST of March 24, subject to being unsold:

	Per 100
Dracæna australis, 18 to 24 inches high	$18.00
" " 24 to 26 inches high	35.00
Dahlias, single roots	2.00
" clumps	6.00
Tuberous Begonias	5.00
Hibiscus Grandiflora, 2½ and 3-inch pots	4.00
English Ivy, 18 to 36 inches	5.00
Clematis, best varieties, 8-inch pots	40.00
Echeveria rosea, 2 to 4 inches diameter	3 00
Hydrangea Otaksa, 6-inch pots	15 00
" Thos Hogg, 6-inch pots	15 00
Roses, mixed sorts, 3 to 5-inch pots	5.00
Cyclamen giganteum, 5-inch pots	12.00
Marguerites, large white, bushes 2½ to 3 feet high	12.00
Callas, 5-inch pots	12.00

For other stock not enumerated in the above list, also Rustic Vases, Iron Vases and Window Boxes, see FLORIST issue of March 24.

Special offer for Easter, see FLORIST issue March 31.

ADIANTUM CAPILLUS VENERIS—The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.

Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it has many aliases. If you are short of room now we will book your order and ship any time up to May 15th. **Price, strong plants, $8.00 per 100.**

For bargains in Plants, see issue of March 24.

JOHN IRVINE CO.,
BAY CITY, MICH.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

25,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION. Fine pot plants $2.50 per 100; $20 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circulation.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

Verbenas

FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 3.00	$25 00
" " Rooted Cuttings	1.25	10 00
General Collection, stock plants	2.50	22.00
" " Rooted Cuttings	1.00	8.00
Lemon Verbenas, 1 year old, strong	6.00	

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1.00	8 00
Feverfew (Little Gem), extra strong	2.00	15.00
Salvia splendens, extra strong	1.25	10.00
Moon Vine	2.00	
Ageratum, blue and white	1.25	10.00
Achyranthes Emersonii, etc	1.00	
Heliotrope, light and dark—no rust	1.25	10.00
Begonias, assorted, fine	2 00	
Gazenias, splendens and variegata	2.00	

WOOD BROTHERS,
FISHKILL, N. Y

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Orchids.

Established and Fresh Imported—Specially Cattleyas; very useful for cut flowers, at greatly reduced prices.

Best quality of Orchid Peat. Write for price list.

FREDERICK MAU,
P. O. Box 322. SOUTH ORANGE, N. J.

ENGLISH IVY.

In 2½-inch pots, cheap.
Send for price list of Bedding plants, etc.

JOS. H. CUNNINGHAM,
Delaware, Ohio.

THE NEW VIOLET
R. GARRETT,

Is a sport from Count Brazza, of a light blue color, very large and very double; a strong, healthy grower.

PLANTS READY APRIL 1st.

Parties in and west of Chicago will please leave their orders with **J. C. VAUGHAN,** box 688, **Chicago.**

Price, $12.00 per 100; $100 per 1000; $4.00 per dozen.

All orders must be accompanied by cash.

J. COOK,
318 N. Charles Street, BALTIMORE. MD.

VERBENAS.

My Verbenas are perfectly healthy and include the Mammoths. From 2½-inch pots, $2.50 per 100; $20.00 per 1000.

PANSIES AND OTHER STOCK.

Smilax, 2½-inch pots, $1.50 per 100; $15 00 per 1000. Chrysanthemums, rooted cuttings, $2.00 per 100; $15.00 per 1000.

Address **J. G. BURROW, Fishkill, N. Y.**

Agaves and Cacti.

With cheap express rates and advantages of parcel post, we are prepared to supply the trade in any quantities desired. Please consult our prices and terms.

BONE MEAL.—Order the pure article from us.

McDOWELL—GUAJARDO HNOS.,
MONTEREY, MEXICO.

PANSIES.

Strong field grown plants, mostly in bud and bloom, from imported seed of the German Imperial Prize (we think the best strain in cultivation), $1.25 per 100; $10.00 per 1000, delivered at the Express office here on receipt of price.

C. F. OSBORNE & BRO.,
Fredonia, Chautauqua Co., N. Y.

SPECIAL OFFER. Per 100

Var. Rose Geraniums, 2½-inch	$ 5 00
Begonia Manicata aurea, 2½-inch	10 00
Begonia Rex, assorted	4.00
Bouvardia Elegans and Davisonii, root cuttings from flats	1.00

JOS. E. BONSALL & SON, Salem, O.

Exhibitions.

Last November the Pittsburg and Allegheny Florists' Club gave its first chrysanthemum show and the following statement of receipts and expenses will probably be of interest in connection with the discussion upon the subject of exhibitions:

RECEIPTS.

Admissions at 25c. each, children 15c.	$2166.10

EXPENDITURES.

Premiums paid	$415.00
Rent of hall	300.00
Music	210.00
Printing and advertising	188 60
Decorating hall	244.93
Salaries for judges	35.00
	1393 53
Net gain	$ 772.57

Special premiums to the amount of $400 were given by citizens, but as they were no expense to our club they do not enter into our account. H.

Here is a statement of receipts and disbursements at the last chrysanthemum show of the Buffalo Florists' Club:

RECEIPTS.

Admissions	$859.40
Entry fees	54.20
	$913.60

EXPENSES.

Premiums paid	683 50
Rent of hall	350 00
Music	186 00
Printing and advertising	263 45
Judges	32.00
Miscellaneous	155 31
	1670.26
Deficiency	$ 756.66

The box office receipts were on the first day $170, second day $253.65, last day $413.75. In addition there were outside ticket sales of $22. L.

ROOTED CUTTINGS

FUCHSIAS. Storm King, Phenominal, Purple Prince, Elm City, Noveau Mastadonte, Black Prince, Chas. Blanc, Minnesota, W. E. Wait, $1.10 per 100 by mail.

MUMS. J. Thorpe Mrs. Hardy, Ada Spaulding, L. Boehmer, L. Canning, Elaine, Georgeous, Puritan, Kioto, Marvel, Mme. Lean, L. B. Bird, Excellent, Mrs. Fottler, E. G. Hill. 100 rooted cuttings of these varieties, equal quantity of each, $1 35 by mail.

CASH OR C. O. D.

SEND FOR LIST.

S. B. FIELD, Roselle, N. J.

Mention American Florist.

	Per 100
Dracæna indivisa, 3-inch pots	$10.00
Jessamine grandiflora, 3-inch pots	4.00
Yucca aloifolia, 4-inch pots	4.00
Blue Plumbago, 3-inch pots	5.00
Manettia Vine, 4-inch pots	7.00
" " 2-inch pots	3.00
Blue Ageratum, 3-inch pots	3 00
Heliotrope, 4-inch pots	7.00
Sweet Alyssum (Benthamii), 2-in. pots	3.00
Cineraria (Dusty Miller), 2-inch pots	2.00

Also La France, Perle, Mermet, Hoste, Sunset, Marie Guillot, Brides and Gontiers, 2-in. pots, $4.00 per 100.

PETER E. SHEETZ NURSERIES,
3513 Kensington Ave., Phila., Pa.

CRINUM AMERICANUM.

As the water is now down we are able to furnish unusually fine bulbs of this beautiful white native Crinum. Large bulbs bloom at intervals throughout the season. Extra selected bulbs, $5 00 per 100; $40 00 per 1000. Second size, $2 50 per 100; $20 00 per 1000. American Treatus, $5 00 per 1000; $1 00 per 100 by mail, postpaid.

Write for price list of Amaryllis, Crinums and Pancratiums for next season's delivery

THE BROOKS SISTERS, Sorrento, Fla.

H. J. CAMPBELL, JAMES SPROULE, } Managers.

NURSERIES: MENLO PARK, CALIFORNIA.

Sherwood Hall Nursery Co.

TIMOTHY HOPKINS,

TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

Nos. 427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NEW CROZY CANNAS

will make you money **FASTER** than any other plants for the next year We are headquarters for

	Each.
Madame Crozy, 3½ feet	$.60
Star of '91, 3 feet	.50
Childsii, 3½ feet	.20
Gustave Senneholz, 2½ feet, salmon	.50
Louis de Merode, 3 feet, large amaranth flowers	.35
M. Lefebvre, 4 ft., leaves veined purple	.35
Gen'l Baron Berge, 4 ft, purplish crimson	.35
Miss S. Hill, 2½ ft., amaranth	.75
M. Duterail, 2½ ft., saffron	.50
J. D. Cobos, 4 feet, purple leaves, clear apricot flower	1.00
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Our Special Spring Price List to the Trade, page 555 February 4th AMERICAN FLORIST.

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News Notes.

GRAND RAPIDS, MICH.—April 5 and 6 this city had its first spring flower show.

SAN FRANCISCO.—The seventh annual flower show of the California State Floral Society will be held May 11 to 14.

MARSHALLTOWN, IA.—Only trifling losses from loose ventilators, etc., here during the late terriffic wind storm. No hail.

VENTURA, CAL.—Mrs. Theodosia B. Shepherd has just completed a new greenhouse 42x18 and has made many improvements on her place.

PITTSFIELD, MASS.—The Berkshire County Gardeners' and Florists' Club is quite a lively infant. There are now 45 members and more to follow.

TOLEDO, O.—Mrs. Thomas Temple (widow of the late Thomas Temple) has opened a floral store at 317 Adams street, in the best part of the city. She has the best wishes of the trade for success.

EDWARDSVILLE, ILL.—J. F. Amman, formerly of Alhambra, has removed his business to this place, and will put up about $6,000 feet of glass this season using mainly the material in his old place.

NEWTON, MASS.—The Newton Horticultural Society has established a series of prizes to be awarded to citizens of Newton for the best results in collecting the eggs of the tent caterpillar up to April 30. Worthy of general imitation.

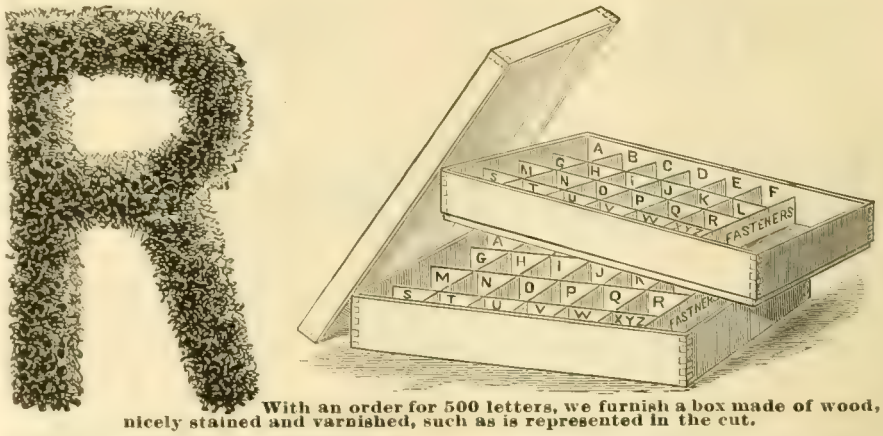
MINNEAPOLIS.—At the meeting of the Minneapolis Florists' Club, April 9, the premium list for the chrysanthemum show next November was adopted. A rose show in June was under consideration and the matter was referred to a committee.

PROVIDENCE.—The rose and strawberry exhibition of the Rhode Island Horticultural Society will be held June 15 at Tillinghast's Assembly rooms, 235 Westminster street. Copies of the premium list may now be had from the secretary, Mr. C. W. Smith, 55 Westminster street.

SALINA, KAN.—Fortunately there was but little damage done to greenhouses by the recent storm. Some glass was lost through hail, and some hot bed sashes were broken through the high wind, but the losses were so trifling under the circumstances that we consider ourselves very lucky.

SAN FRANCISCO.—At the April meeting of the California State Floral Society, Captain E. Kellner read a paper on the California poppy, and E. D. Sturtevant of Los Angeles read another on aquatic plants. Secretary Emory E. Smith was granted a leave of absence to enable him to make a tour through Europe. Chas. S. Aiken was appointed to act in his place. The discussion of the day was upon the flower show to be held next month.

SAN FRANCISCO.—The Sherwood Hall Nurseries will hereafter have headquarters at 427 and 429 Sansome street, this city, and will handle a general line of seeds and bulbs in addition to their former business in plants, etc., working under the title of Sherwood Hall Nursery Co. To this end they have acquired the business formerly carried on by the Northern Seed Co. The nurseries at Menlo Park will be retained and conducted in conjunction with the city store.



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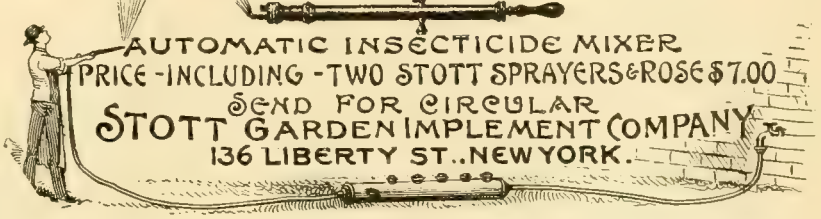
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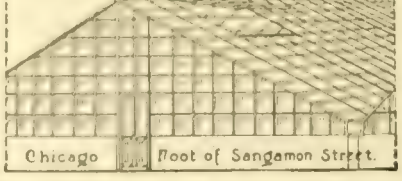
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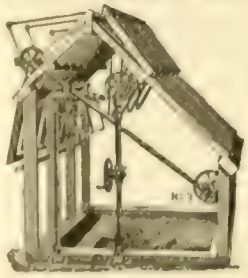
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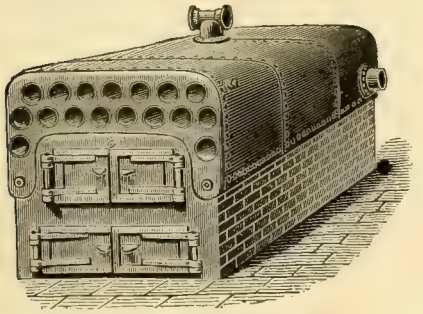
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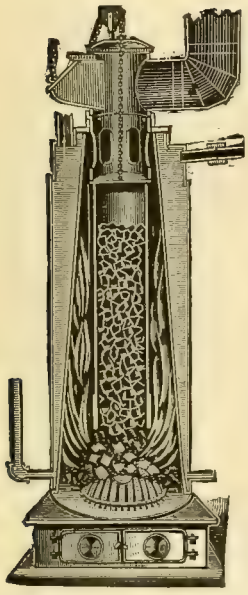
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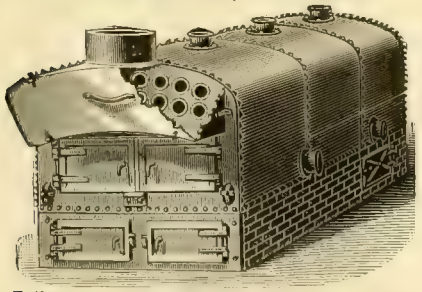
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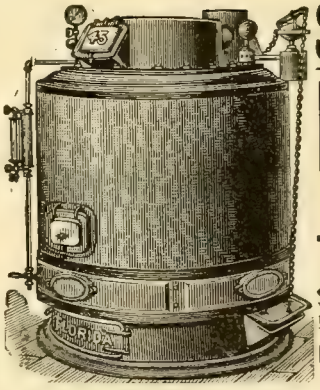
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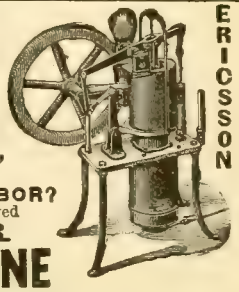


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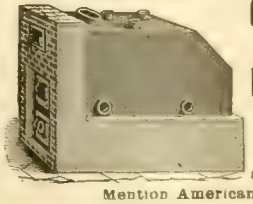


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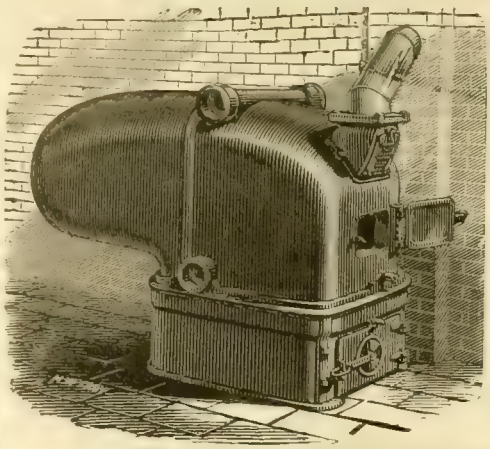
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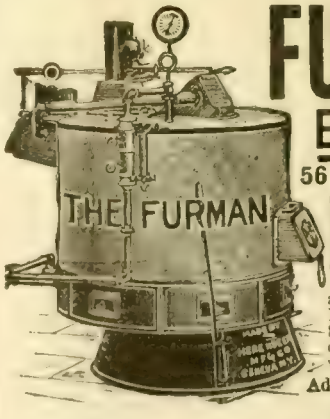
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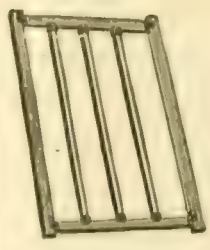
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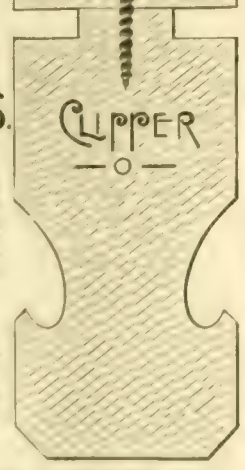
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Vol. VII. **CHICAGO AND NEW YORK, APRIL 28, 1892.** **No. 204**

THE AMERICAN FLORIST

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Insures greenhouses against damage by hail. JOHN G. ESLER, Secretary, Saddle River, N. J.

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AS SEEN by the reports in this and last issue the Easter trade of 1892 shows the usual annual increase, and the expansion seems to have been more widespread than ever before, the reports from every section being practically unanimous as to an increase of from 10 to 35%. The average increase might be placed at 20%. The call everywhere seems to be more and more for loose flowers and blooming plants.



Compared With That of Last Year.

REPORTS FROM ALL SECTIONS.

HAGERSTOWN, MD.—25% larger. Prices same. Supply larger.

NASHUA, N. H.—10% larger. Increase for Harrisii. Prices same. Supply fully as good.

MERIDEN, CONN.—About 20% larger. Prices about same. Supply better in every way.

IOWA CITY, IA.—Easter trade most excellent. Never before did flowers sell so freely here.

MEMPHIS, TENN. — Slight increase. Prices rather lower. More demand for cut flowers.

WILMINGTON, DEL.—Much larger. Increase for hydrangeas. Prices same. Not enough cut flowers.

RAHWAY, N. J.—Much larger. Prices about same. Supply greater in quantity, quality about same.

CONCORD, N. H.—About 10% increase, mainly for lilies. Prices about same. Supply rather better.

SPRINGFIELD, MASS.—10% larger. Increase in call for roses, pinks and Harrisii. Prices same. Supply better.

LANCASTER, PA.—Increase of 10%. Prices same. No change in proportion of plants and flowers. Supply better.

CLINTON, MASS.—One third larger. Prices same. Same proportion of plants and flowers. Supply better in quality.

PAWTUCKET, R. I.—Increase of about 20%. Cheap flowers and plants sold quickest. Prices same. Supply better.

HOLYOKE, MASS.—Much larger. Increased call for roses, pinks and lilies. Prices same. Supply larger and better.

ALBANY, N. Y.—About 25% larger. Increased call for violets. Prices about the same. Larger supply; quality about same.

SCHENECTADY, N. Y.—About one-third larger; prices and supply about same, except on carnations which were scarce and high-priced.

DAVENPORT, IA.—From 10 to 15% increase. Heavy demand for callas. Prices same. Harrisii lilies better. Fair supply other flowers.

UTICA, N. Y.—About one-fourth larger. Increased call for everything. Prices about same. Supply good and everything used up.

AUBURN, ME.—About same. Less call for lilies and more for carnations. Prices practically the same. Supply about same, quality better.

WOONSOCKET, R. I.—Much larger, the increase being entirely for cut flowers. Supply about same in quantity but not so good in quality.

ERIE, PA.—About 10% increase. Greater call for Harrisii and decorating plants, also for daffodils. Prices about the same. Supply a trifle better.

ELMIRA, N. Y.—About 25% larger. Increased call for carnations. Advance in prices of roses and carnations. Supply better in quantity and quality.

HAVERHILL, MASS.—10% larger. Slight increase for lilies and carnations. Prices about same. Supply larger and of better quality. Everything cleaned out.

SAVANNAH, GA.—Increase of 10%. More call for lilies. Prices substantially the same. Proportion of plants and flowers and quality of supply about same.

TOWANDA, PA.—Increase of about 30%. More church decorations and greater call for Harrisii. Prices about same. Increased call for plants. Supply better.

YORK, PA. — Larger. Prices about same. Supply better both as to quantity and quality. Last year weather was against us, this year weather was fine.

SARATOGA, N. Y.—At least 25% increase. Less call for tulips. Prices about same. Larger supply and quality good. Increased call for violets. Everything sold.

TORONTO, ONT.—About 25% greater. Prices lower. Supply better. Sales of plants and flowers in about usual proportion. Plenty of everything but violets.

HARTFORD, CONN.—About 20% larger. Increased call for lilies and carnations. Prices about same. Plants in greater demand. Quality good but quantity short.

SYRACUSE, N. Y.—Much larger. Increased call for fine roses and carnations. Prices averaged somewhat lower. Supply larger and quality finer, especially on roses.

CINCINNATI.—About one third larger. Less call for lilies; roses and carnations preferred. Prices about same as last year. Everything sold and quality was good.

WASHINGTON.—About 40% increase. As usual potted plants took the lead. Prices about the same. Supply ample and qual-

ity fine. Perfect weather greatly helped sales.

JAMESTOWN, N. Y.—About one-fourth larger. Prices about same. Had nearly enough to meet demand. Can't afford to buy outside. Prices asked leave us no profit.

DENVER, COLO.—About same. Increased call for Harrisii and hydrangeas. Prices somewhat lower on flowers, about same on plants. Supply larger and of better quality.

TRENTON, N. J.—Increase of 30 to 40%. Everything sold. Prices a trifle better. Flowers and plants in about same proportion. Hyacinths and roses were shortest in supply.

NEWPORT, R. I.—About 25% increase. More call for violets and lilies, less for roses. Prices about same. Supply larger and quality better. Easter trade increasing every year.

LACONIA, N. H.—20% larger. Increased call for roses and lilies. Prices about same. In plants more call for lilies and hydrangeas. Supply about same. Church decorations larger.

DETROIT.—Slight increase, probably 10%. Increased call for violets, Harrisii and pink hydrangeas. Prices about same. Supply also about the same. Demand for tulips decreasing.

CLEVELAND.—Increase of 25%. Not so much call for lilies, more for roses and fine flowers. Prices a little lower. More blooming plants sold. Flowers of better quality, except violets.

LOUISVILLE, KY.—About 25% greater. Main call was for roses. Prices much better. Plant trade was immense with lilies in the lead. Supply short. Church decorations 50% greater.

GRAND RAPIDS, MICH.—Much larger. More call for roses and boxes of loose flowers. Prices about same. Quality and quantity fully equal to last year. Easter lilies rather scarce.

LOWELL, MASS.—Increase of 15%. More call for lilies, roses and carnations. Prices same, except on lilies which were lower. Supply larger and quality better. Enough of everything except roses.

PITTSFIELD, MASS.—About one-third larger. Increased call for Harrisii lilies, Mermet and Bride roses and carnations. Prices quite as good; higher on carnations. Supply good and quality first class.

MILWAUKEE, WIS.—About 25% larger. Increase in call for roses, carnations and lilies. Prices same. No change in proportion of plants and flowers. Supply better in both quantity and quality.

KEENE, N. H.—About same. Increased call for lilies and roses. Prices same except on pinks which were 50% higher. Supply fully as good. Big call for loose flowers and but little for design work.

HARRISBURG, PA.—Large increase. Everything in bloom sold well, especially hyacinths. Prices about the same. Supply was better as to both quantity and quality, but was still not equal to demand.

DANVERS, MASS.—25% larger. Increased call for pinks. Prices same. Supply better and more of it. Lilies from Bermuda were in market but could not be compared with home grown stock in quality.

MINNEAPOLIS.—At least one third more. More call for Harrisii lilies and hydrangeas and less for candidum. Prices about same. Much larger call for plants. Stock better and more of it, supply being about equal to demand.

EVANSVILLE, IND.—About 25% larger. More call for Harrisii in pots and cut roses. Prices about the same. Supply larger and of better quality. The weather hurt sales as many customers would not come out.

ST. ALBANS, VT.—One third larger. Increased call for roses, lilies, carnations and all white flowers for decorating. Prices trifle higher. In plants greater call for lilies and spiræas. Supply larger and of better quality.

LONDON, ONT.—Much larger. Harrisii and spirea were chiefly called for in pot plants and roses in cut flowers. Prices same except on fine roses which were a little higher. Quality about same but quantity greater.

WILLIMANTIC, CONN.—Larger. Less call for hyacinths. Prices about same. More plants rented for church decoration. Home lilies were a failure. Roses bought cheaper than ever before at Easter. Large sales of carnations.

OTTAWA, ONT.—About the same. Increased call for roses, less for lilies. Prices rather lower owing to sharp competition. Demand for flowers and plants about the same, except for lilies. Supply better both in quantity and quality.

BATIMORE.—Much larger. Increased call for Harrisii. Prices much the same, perhaps a trifle higher. Increase in demand outran increase in supply. The use of flowers is increasing annually both in residences and churches.

PORTSMOUTH, N. H.—Equal. Increased call for lilies. Prices about same. Supply larger. The most troublesome thing at Easter (and at all times) is to fix a mutually satisfactory price for the rental of plants. What basis is there?

NEWBURYPORT, MASS.—About 15% larger. An increased call for roses. Prices on roses were lower than ever before at Easter. Increased sales of flowers; plants about same. Supply about same as last year. Quality of lilies rather inferior.

WATERBURY, CONN.—About same. Increasing steady demand for carnations. Prices for Harrisii a little less, for carnations a little more. Steady increase in call for plants. Only half a supply of carnations and not over good at that.

DALLAS, TEXAS.—About 50% increase. More call for lilies, both cut and in pots. Prices about same. Quality of stock was good. Lilies were a little late. Had to buy heavily from a distance. Plants very scarce here. Good opening for a grower.

NEW BEDFORD, MASS.—About 25% increase. More call for roses and pinks. Prices one-third less. Larger demand for Harrisii on account of low price. Supply about same. Low prices cleaned out everything. Lilies sold for half the price asked last year.

KANSAS CITY.—At least 25% increase. More call for lilies—all kinds of flowers sold well, everything loose. Increase in call for plants was mainly in lilies. Sold for $1.50 each and not enough to go round at that price. All stock was in much better condition.

RICHMOND, VA.—Much larger. Increased call for roses, valley and finer kinds of violets. Prices better. Supply was not nearly equal to demand. Weather was pleasant, while last year snow fell all day Saturday. Sales of plants and flowers in usual proportions.

MEADVILLE, PA.—Increase of about 25%. Increased call for everything, especially roses, carnations, violets and valley. Prices same. Greater demand for blooming plants in small pots. Supply larger and quality better. The beautiful weather helped sales, especially of plants.

NORWICH, CONN.—Very much larger. Increased call for lilies, violets and carnations. Prices a trifle higher. Increased call for plants, especially lilies. Supply better every way. A lot of pansies and small flowering plants were disposed of to be given to Sunday school scholars.

NEW HAVEN, CONN.—Fully 25% greater. Could not get enough Harrisii lilies and azaleas to supply the demand. Prices about same. Not so much call for roses but more for carnations, violets and cheaper stuff. Could not get enough pinks, tea roses, Von Sions and jonquils.

READING, PA.—Slight increase. More call for callas, Harrisii and azaleas, less for tulips, hyacinths and daffodils. Prices about same. Larger demand for blooming plants. Supply larger. Quality of carnations fine, of roses not so good. The great heat previous to Easter made roses small.

ST. LOUIS.—About 25% increase. More call for Harrisii and fine roses, less for callas. Prices about the same. More demand for flowers than plants. Supply larger and quality better. The practice of making presents of blooming plants is growing as an Easter custom as it is also at Christmas.

COUNCIL BLUFFS, IA.—25% larger. Increased call for Harrisii and less for p. w. narcissus and Roman hyacinths. Prices about same. Supply better. Weather very bad all through February and March. Worst have had in 15 years. Surprised that sales were so good under the circumstances.

BRIDGEPORT, CONN.—About 30 % larger. Increased call for carnations, violets and all kinds of roses, especially Bon Silenes and Jacqs. No change in prices. Increase was entirely in cut flowers. Supply larger and of better quality, but not enough roses and carnations. Too much bulbous stuff.

NEW LONDON, CONN.—About one-third larger. Increased demand for lilies in pots. Prices about same. Increased sales of loose flowers in small lots. Supply larger, quality about same. Bulbous stuff of all kinds went like hot cakes. More of lilies and flowering plants and less of large palms for the churches.

PATERSON, N. J.—About 25% larger. Increase in sales of Harrisii and palms. In retail prices the tendency was apparently downward. Demand for cut flowers much in excess of supply. Quality excellent. The downward tendency of prices for pot plants at Easter is doubtless owing to excessive competition.

SPRINGFIELD, ILL.—Very much larger. Lilies sold best. Spireas, cinerarias and azaleas sold well. But very little call for hydrangeas, callas and bulbous stock. Prices about same. Supply good both in quality and quantity. Lilies were fine and just about equal to demand. More variety of blooming plants find ready sale.

PEORIA, ILL.—Larger. Increase for lilies, less for spirea. Prices about same. Quality better, quantity about same. J.



POPPIES.

C. Murray had the finest lot of Harrisiis ever seen here. Easter being late all the florists seemed to have their plants in on time. The trade during Lent was unusually good this year. Plant trade promises fair.

PITTSBURG.—Increase of about 30%. Greater demand for lilies, violets, tulips, hyacinths and other spring flowers. Prices higher on roses, about the same on other flowers. Demand less for plants and more for flowers. Quality of both was better. One firm had to lock the doors at 4 p. m. to keep out the crowd, letting them in a few at a time.

DES MOINES, IA.—One third larger. Bulb stock, roses, carnations and Harrisiis in greatest demand. Prices lower—no advance over regular prices. Not much call for plants outside of lilies. Supply good, quality poor owing to continued cloudy weather. Prices not being advanced many people bought who do not usually buy at Easter. Quick sales and small profits.

BUFFALO.—Increase of 20 to 25%. Greater demand for carnations and violets, less for tulips, narcissus, etc. Roses a trifle cheaper, other stock about same. Increase in call for good blooming plants. Supply better in all lines. Moderate sized and moderate priced roses, good carnations and a pretty little plant costing from 75 cents to $1 was the call of the million.

PORTLAND, ME.—One florist reports an increase of one sixth and another a decrease of one fourth. Both report more call for loose flowers and less for designs. Also prices about same, and the supply larger and of better quality, though one makes an exception of lilies. One complains that the market was overstocked with stale flowers from Boston in the hands of venders.

HAMILTON, ONT.—About 20% increase. More call for Harrisii in pots, pot roses and good hydrangeas. Prices about same. Greater demand for good flowering plants and first class roses and carnations. Supply short on roses and carnations; the lilies and mixed stuff was about equal to demand. Greater demand for presentation baskets than for some years past and for a higher grade of stuff.

INDIANAPOLIS, IND.—Increase of about 25%. More call for callas, roses and carnations, less for Harrisii. Prices about 25 to 40% lower on roses and about 20% lower on other stuff. Blooming plants of all kinds sold well, except geraniums and cheap stuff. Supply somewhat better than last year. Stock was good; roses and callas short; a big over-supply of bulbous stuff. Very few designs and baskets made up. Mostly boxes of loose flowers. Fine weather resulted in many flowers being worn on the street.

MONTREAL.—About one third larger. Increased call for loose flowers, hardly any made-up work. Everything was sold, both plants and flowers. Prices about the same. Demand for flowering plants is ever increasing but supply is very limited here at Easter. One florist reports more call for hydrangeas and less for lilies. Supply was better both in quantity and quality. General feeling is that it was best Easter we ever had. It is thought by several that a large plant growing establishment would be a profitable institution here.

PHILADELPHIA.—Pennock Bros. report: "About one fifth increase on plants. Increased demand for lilies and azaleas. Prices about same all through. Proportion of plants and flowers sold about the same. A falling off in sales of hydrangeas. Plants plentiful. Supply of cut flowers, especially roses and violets, was short. More cut flowers and plants used than ever before. Demand for plants unusually good. Was never busier." The Floral Exchange says: "20% greater. Retail prices 30% lower, wholesale prices also lower. More plants sold by us, especially lilies, *pink* hydrangeas and *pink* azaleas. Flowers scarcer than last Easter, especially roses, caused by rainy weather. Quality good."

Poppies.

Poppies are summer flowers and blossoms of the outdoor garden rather than the greenhouse. They consist of two distinct types: namely, annual and perennial and some of the latter thrive best when treated as biennials.

Seedsmen take kindly to all manner of showy poppies because they are easily grown, sure to bloom and give satisfaction to their customers; and they ripen seeds abundantly. They lean most heavily upon the annuals. Plant merchants handle the perennial sorts as Papaver Orientale and its varieties, also pilosum and nudicaule, and ignore the annuals.

As poppies bloom in summer, the off-season with the cut-flower florists, they never have been made as much of as their brightness, fullness and beauty warrant. A good deal of this neglect is owing to their being imperfectly understood, also to a current notion, "you seize the flower, its bloom is shed." But a great deal more use can be made of poppy flowers than is generally done. We can have them in quantity from the first of June to the middle of July. And as regards their lasting nature, if they are cut just before they open, they can be kept very well for two or three days, but if allowed to open full before being cut their life as cut flowers almost fits the quotation.

The nudicaule poppies blossom in May and June, and the Orientals in June. The annual sorts come into bloom from the end of May till the end of July, according to when they were sown. They are very hardy. Sown early in fall they make nice plants that survive our winters very well and blossom early in summer. Sown early in spring they bloom from the end of June through July. I sow them about the end of March or first of April, just as soon as we can work the ground, and at the same time as we sow early mignonette and sweet peas. For earlier work I raise a lot of them in pots in the greenhouse; from flats they transplant poorly, from pots perfectly.

The large double poppies are garden forms of Papaver somniferum, the opium poppy and known as pæonia-flowered, Mikado, The Bride, The Swan, and so on. Ranunculus-flowered poppies are double varieties of the European corn poppy, but of recent years fashion has declared in favor of the Shirley poppies which are exceedingly beautiful varieties of many delicate colors, and never double. Other species as Papaver umbrosum, P. lævigatum, P. pavonium, and P. glaucum are much esteemed in gardens. These last named poppies intercross with much freedom and soon loose their specific identity, but the pæonia-flowered poppies do not cross readily with them. All perennial species hold to themselves rather strictly.

Annual poppies self-sow themselves very freely; the young plants appear early in the fall and live over winter perfectly. A field of poppies in a seed farm in July is one of the most dazzling bits of flower-color I have ever seen. WM FALCONER.

SEVERE LOSSES of glass by hail are reported from Kansas City, Mo., Paris, Texas, and and Martin's Ferry, Ohio.

DIRECTORY CORRECTION.—Change the address of Jos. Bennett, Montreal, Quebec, from 392 to 2392 St. Catherine street.

Plant Notes.

Many handsome flowering plants that once occupied quite prominent places appear to have been dropped of late years, at least among commercial growers, and doubtless with sufficient reason in many cases, for it does not pay to occupy space with dead stock in these days of close competition.

There are, however, many among the old fashioned favorites that deserve to be disinterred from their temporary oblivion and if well handled would probably pay for the trouble and also encourage a demand for others of similar character.

Among such may be mentioned those formerly known as rogieras, though now included in the rondeletias in the revised version.

Of these the old but very pretty R. gratissima is among the best, this being a sturdy growing shrub with opposite ovate leaves of leathery texture and produces large trusses of pale pink flowers that bear some resemblance to those of an ixora. It is a very free flowering plant and needs only moderate heat, say from 50° to 60°.

Propagation is effected by means of cuttings, there being no special difficulty in rooting these providing they are placed in a warm house. No special mixture of soil is necessary for these plants, though the old method was to pot them chiefly in peat, but this is not absolutely essential, and as a matter of fact almost any light well drained soil will be found suitable.

Another good species is R. thrysoidea, which is of somewhat similar general appearance to the preceding, but produces axillary trusses usually containing a less number of flowers than those of R. gratissima, and also of different color.

These rondeletias are somewhat liable to have a straggling habit unless this is corrected by more or less pruning after the flowering season is over, or at such other times as may be necessary.

Chorozema cordata has been referred to in the FLORIST at various times, but its merits deserve another reference, and if nicely grown in about 6-inch pots would probably find an opening among plants for Easter and other decorations, its slender but wiry branches terminating in a showy raceme of pea-shaped flowers of bright orange and red.

Chorozema cordata is of graceful habit and may be pinched into shape at any time previous to the formation of the flower buds in the same manner as a cytisus and may be increased by cuttings or seeds, the latter being produced quite freely by old specimens.

Meyenia erecta is a warm house flowering plant of considerable beauty and also extremely easy to manage. It is of shrubby growth and produces bright blue flowers from the axils of the leaves in great profusion.

Unfortunately meyenia flowers are of but little value for cutting, and consequently can only be depended on for conservatory decoration or other work in which but little handling is required.

There is also a white variety of the above plant, similar in all respects except color of the flowers, and like the type is easily rooted and grown in a temperature of 60° to 65°.

Years ago the old Daphne indica (or D. odora as it was sometimes called) was frequently seen grown among camellias, either in pots or planted out, and so long as a single truss of flowers remained in the house its presence would be indicated at once by its powerful perfume, but of late years the perfume of the daphne is seldom encountered, and its compact heads of waxy looking flowers are seldom seen.

Either the white flowered or the rosy variety is worthy of cultivation and the blooms are freely produced in winter and spring, while the only special care necessary in their cultivation is not to give too much water in winter, and provide other conditions such as would be suitable for camellias. Cuttings should be of firm young wood and should be handled in the same manner as those of azaleas, and will take about as long to root.

W. H. TAPLIN.



Watering Roses.

I can not understand why so many people when writing on rose culture should lay such stress on careful watering, and that it is better to be on the safe side, which would be the dry side, etc. My experience has been that it is pretty hard to give a rose that is healthy and vigorous too much water, providing it is only watered once in 24 hours.

Last year while at my old place at Lansdowne, Pa., I made an experiment with a small bench of Mermets. This bench was at the end of the greenhouse against the shed and in winter time never saw the sun till 10:30 or 11 a. m. This was the last bench planted on the whole place and consequently the plants were what we term culls. I gave strict orders that every day this small bench should receive a thorough watering until the water ran freely through the bench. In other words I was trying to kill the roses with water. But notwithstanding the poor situation this bench was in for this experiment, the plants averaged better and healthier than those that were in the full sun the whole of the day and were carefully watered, or watered whenever they got dry. Many florists around Philadelphia can substantiate this, as whenever they favored us with a visit I drew their attention to this bench, that was generally in the condition of mud. The soil used was a heavy clay loam.

Mr. Chas. S. Price is one of the most successful rose growers in the vicinity of Philadelphia, and probably nine out of every ten visitors have noticed that his rose beds are always saturated with water. In fact any one can pick up a handful of soil and squeeze the water through their fingers.

I think that in every instance that has come under my notice where roses have appeared to be over-watered it has been first caused by a sudden check through being dry at the root. Take a rose that is growing freely and let it suffer for want of water for 24 hours; the flow of sap is checked. Then comes a heavy dose of water; the sap is going the wrong way to take the water up and in about a week the leaves turn yellow and your bed appears wet. Then comes the cry "the bed has been over-watered," when as a matter of fact it has been caused by being too dry.

I am satisfied in my mind that it is safer to be on the wet side, providing the rose is growing freely and in a healthy condition. Water is the best friend I have in growing roses and I use lots of it.

I have sent you a few roses Mr. Editor, that have been grown under this plenty of water treatment and would like to know how they compare with those you have seen that are grown under the safe side dry system. W. W. COLES.

Kokomo, Ind.

[The roses sent were certainly excellent and compared favorably with the best in the market.—ED.]

Roses on Benches More than One Year.

It would doubtless be of interest to many readers, if one of our noted rose-growers would state which varieties of roses can profitably be grown two or more years in succession on raised benches. Niphetos usually flowers better when over one year old, but how is it with Sunset, Hoste and others? The writer has a fine bench of Hoste which has done exceedingly well the last winter. Is there any chance for them to do as well the next winter. D.

Cypripedium Elliottianum.

A remarkable variety of this beautiful cypripede is now flowering in the Graves collection at Orange, N. J. Its blossoms are unusually large and the markings very vivid. The photo sent shows the flowers two thirds of their natural size. The plant has two growths, is in vigorous health, and the flowers will undoubtedly improve as the plant gains strength. Four flowers on an individual spike have already been produced on cultivated plants. It was introduced some four years ago by Sander & Co. and named in honor of Wm. Elliott of New York City.

In habit the plant closely resembles C. Stonei and when once established proves a free grower. The dorsal sepal of this variety measures two inches across and is flat, white, with numerous dark red lines; the petals measure six inches in length and are broad at the base and narrowed to a deflexed point marked with crimson spots and lines; the pouch or lip closely resembles that of C. Stonei in shape, the coloring however is darker; a very distinctive feature also is the peculiar formation of the staminode, which is covered with bluish hairs; the inferior sepal, unlike many other cypripedes, is broad and flat, with lines of a fine purple color which add much to its beauty.

Fibrous peat together with a portion of loam with a clear drainage is a good compost for the plant, with a temperature of 65° to 70° during the growing season; a few degrees higher with sun heat will also prove beneficial. A. DIMMOCK.

New York.

Packing Decorative Plants and Orchids for Shipment.

[*Read before the New Jersey Social Florists' Club April 7.*]

Writing about how to pack plants I find more difficult than to do the actual work of packing; but, as I have been called upon to give a paper on this subject I will give you what I have found to be the most convenient and safest way to pack plants during the cold weather.

In packing palms, such as arecas or kentias, always commence on the outside and work towards the center. By doing this you will have more room to work and will not be so liable to break the plant. After seeing that the plant is clean and free from scale you may commence



CYPRIPEDIUM ELLIOTTIANUM.

[TWO-THIRDS NATURAL SIZE.]

by tying the pinnæ to the center rib of the leaf, starting at the bottom and working upwards until the leaves are all tied up. When all the leaves are tied up as described then tie all the leaves together. If the stems are strong it is best to tie two or three together, commencing in the center; by doing this you will equalize the strain which otherwise would damage a leaf if not spoil the plant. You now have the plant tied up, the next thing to do is to stake it, which is in most cases a very important matter. For this I prefer a bamboo, as they are light and strong. Press the stake into the soil keeping it as near upright as possible, then secure plant and stake, tying both together, wrap the plant all over in paper, tie securely, next put on a cover of cotton batting, tying it on, then put on the final covering of strong paper, tie securely and the plant is finished. If the plant is going a long distance and is likely to be two or three days on the journey it is best for the packer to use his own judgment and put on extra paper for the final covering. You will find it is cheaper in the end, and what is more to the point, it gives greater satisfaction to the buyer to receive his plants in good condition than for them to be partly frozen.

This way of packing will serve in all cases of palms such as areca, cocos, rhapis, seaforthia, kentia, ptychosperma and oreodoxa. Other palms to be packed in a different way are latanias and all palms with broad or palmate leaves. On account of their leaves it is not safe to tie them up as you would an areca. Commence by tying the stems so that the leaves are flat; secure all leaves in this way and then stake your plant; in doing this you must use two good stakes, tying an extra piece of stick across the top of the stakes to give the required width, secure all stakes, pass a few ties around stakes and plant and cover as recommended for the arecas. This packing with two stakes can be done with success for palms such as latanias, ceroxylon, corypha, livistona and phœnicophorium.

In packing stove plants such as cyanophyllum or spærogyne great care must at all times be exercised, for by bending the leaf a little too much it will break off and the plant is ruined—except for the propagating house. In packing a cyanophyllum measure the height of the plant and cut the stakes accordingly. Use two stakes with a cross piece, stake your plant so that the leaves are flat; before tying up the leaves place between each pair of leaves a piece of oil paper to prevent one leaf touching or rubbing against the other, tie up each pair of leaves separately, cover with tissue paper, then cotton batting and last, but not least, put on the covering of strong paper. Anthuriums and caladiums can be packed in this manner, but as their leaves can not with safety be turned up it is best to draw them all into the center still keeping them flat and pack as you would a cyanophyllum.

The plant I have had most trouble with and which requires the most care in packing is Bertolonia Van Houtteii, on account of its short and tender stems; but to do away with all difficulty I have found it best to use four stakes and let the plant remain as near in its natural growing position as possible. After securing the stakes wrap up the whole plant in either oil or tissue paper, cover well with cotton batting and finish with a sheet of paper. As the bertolonia is one of the tenderest stove plants we have, great care must be taken in packing to guard against frost.

In packing orchids great care and good judgment is essential. Take, for instance, a plant of Odontoglossum crispum with a spike of flowers varying from 12 to 20 full blooms. to look at such a plant would be enough for most people and, as for packing it, why, it would be simply out of the question. How to pack such a plant is learned by experience and practice only. No one can learn by simply watching an experienced man pack one. It is only after failure that success is achieved. To pack an odontoglossum in flower get a light, strong stake, measure and cut it about two inches longer than the flower spike, wrap the stake in tissue paper and put it as near the center of the plant as possible, securing firmly. After you have secured the stakes and cut some

tissue paper into strips of about one inch wide commence binding the flower spike to the stake. Now is the time to see whether a man can pack an orchid in flower or not. If he is new at packing such a plant he will undoubtedly break off several of the flowers before he is through, but if, as the saying is, "he has been there before" he will bind up the whole flower spike without breaking a petal. Having gotten the flower spike securely fastened to the stake the rest is simple and easy. Get four more stakes, paper them and stick one in each corner of the basket or pot. If in a basket and the stakes are not firm it is well to tie them to the basket and so prevent any chance of a stake getting loose and the flowers being broken. Next cut four sticks to fasten to the top of the stakes. In doing this see that none of the flowers touch the stakes; if they are likely to touch cut the sticks longer and spread out the stakes, thus giving the flowers all the room necessary. Tie the flower stake at the top so that no movement is possible. After satisfying yourself that the stakes are fast wrap the plant up in tissue paper, then cotton batting and strong paper.

Trusting my paper may be of some service to you all, and thanking you all for the time and attention you have given, I beg to remain,

ARTHUR T. CAPARN, manager of the packing and shipping department of Pitcher & Manda, Short Hills, N. J.



Growing Large Blooms.

ED. AM. FLORIST:—We have to-day shipped you a box of carnation blooms and plants. The blooms are Portia, Scarlet Ray (a sport from Portia) and Lamborn; also some unopened buds of Lamborn to illustrate length of stem. We have cut the blooms low enough to illustrate our method of disbudding.

We were troubled with poor Lamborn flowers last year but not this season. Lamborn is grown on a raised bench, in four inches of rich loam, close to the glass. Temperature 60° at night and usual day rise. The soil is kept stirred one half inch deep, and plants are supported by A shaped chicken wire screens between rows. The bed has been constant in bloom since October last with no tendency whatever to crop. Could not call it a profuse bloomer but it is decidedly constant. Its cardinal fault is weak stem and tendency not to open fully in dark weather, but maintaining an even growing temperature and abundant ventilation without bringing direct draughts on the plants will overcome this tendency considerably. It is important to support Lamborn somewhat in order to keep buds from the ground, for if allowed to droop and lie flat they discolor and do not open well.

Lamborn is the most profitable white we grow. We have Lizzie McGowan, but it bursts fearfully so far. We have 2,000 McGowan for next season and shall grow it under different conditions and see if the bursting can not be overcome. It is important to feed Lamborn by dressings of compost or liquid manure (not too strong) as if soil becomes exhausted Lamborn gives out rapidly.

We are of the opinion that carnations may be trained, fed, disbudded and large flowers grown in the same manner as chrysanthemums. We have grown a Lamborn flower 3½ inches across, by such treatment as you would give a chrysanthemum, and we should not be surprised if the same could be developed to four or more inches in diameter. In these extra large flowers the stem seems to be somewhat strengthened by the feeding process. C. W. WARD.

East Moriches, N. Y.

[The blooms of Portia averaged 2 inches in diameter and were borne on stout stems averaging 18 inches in length. The Lamborn flowers averaged a trifle larger, but the stems were not so strong nor quite as long. All were good flowers. Sunray is a Portia splashed with white, the white tinged with the scarlet ground color. The system of disbudding was that described by Mr. Ward in his article on page 820 of last issue. The unopened buds of Lamborn were on stems 18 inches long and the small plants sent, which included seven varieties, were all in excellent condition.—ED.]

New York.

The week following Easter has been a busy one for the retail florists, the number of wedding and other decorations having been unusually large. The quantity of cut flowers required for these occasions, although large, has not been sufficient to postpone the expected tumble in prices beyond the two or three days immediately succeeding Easter Sunday, and in the latter part of the week came the inevitable smash, roses especially being affected. The load of roses sent to the city on Saturday was very heavy, and as bright spring weather has again set in this is probably an indication of what may be expected daily for the next few weeks. Many of the roses coming in are very fine. T. J. Slaughter's American Beauties which go to Burns & Raynor are of extra good quality. Wiegand Bros. are sending to Young Bros. Paul Neyrons, Capt. Christies, Moss Roses and La France which are unexcelled. Ernst Asmus is also doing the Moss Roses grandly. Jacqueminots are abundant and have to be top quality to bring $10 per 100, while the average will not realize over $5. With Jacqs and dark hybrids at such low figures there is not much show for the Meteor now, but Ernst Asmus claims that it pays him better than any other rose, as it has borne heavily all winter, whereas growers depending on Jacqs and hybrids as Wiegand does, get no returns till February and thus lose the best part of the winter. One of the best selling roses now is the Prince Camille de Rohan which goes popularly under the name of "Black Jacq."

Trade was not nearly as brisk on Easter Sunday morning as the great rush on Saturday afternoon would lead one to expect. The only flowers left over were those that were bought in expectation of a big Sunday trade.

All the retail dealers report that it was impossible to serve all the customers who came on Saturday and many were turned away on this account. Butler says it was the biggest Easter trade he ever experienced in both plants and flowers. An unusual feature he noticed was the call for wreaths and crosses for cemetery decoration. According to all accounts this fashion is growing at Easter and it is certainly one worthy of encouragement.

Hafner re-echoes the general complaint that the demand was crowded so into Saturday's rush that he could not begin to attend to all the people who came. There was a general run on cut flowers, all kinds, regardless of color or variety.

Stumpf reports cut flower trade as not quite up to other years, but mainly because everybody wanted to be served at once on Saturday afternoon and it was impossible to accommodate them all. In church decorations, of which he did several, there were but few flowers used, plants being mainly depended upon.

A certain New York florist must have been pretty well tired out after his Easter trade for he went to sleep in front of the stove and when discovered by his wife he was blissfully unconscious of the fact that the fire had already scorched the knees out of his trousers.

Wier, of Brooklyn, was somewhat incommoded by his recent move into new quarters, but found Easter trade generally satisfactory and also noticed the increase in the use of flowers for cemetery memorials.

From all accounts it appears that the calla as an Easter specialty cuts no figure whatever now, and the same is almost as true of the candidum, some of the large dealers not using a single flower of either one of these once popular favorites.

The Flower Market, so called, at Union Square, which is in reality a plant market, is now in full blast and from daybreak till eight o'clock every morning the allotted space is filled with a double row of wagons and a brilliant array of showy blooming plants. While most of the newspaper reports regarding the popularity of this feature with the upper tendom and its drawing power as a "fad" are humbug and idle tales, yet there is no doubt a large trade in bedding plants done here and it makes a convenient location where buyers can meet the growers and personally select their plants, and as the stock is of a description such as retail florists do not care to bother with, it cannot do any especial harm to the regular stores. It is asserted, indeed, that one or two retailers who had stocked up too heavily on Easter plants found this market a very convenient place to dispose of their surplus "incog" of course.

The real flower market is at 34th St. Ferry. Here from a very early hour in the morning until 8 or 9 A. M. is to be found the most happy-go-lucky crowd in the world. At this season of the year especially, when the cut of flowers of all kinds is heavy, the crowd is very large and the scene one well worthy of a visit. Willie Siebrecht, Johnnie Weir, and a few such notables talk in the English language, but the language which seems to be most prevalent is "Greek." The courtesies of the place are very Bohemianish and everybody looks out for number one and takes care of himself. Just now the quantity of callas, Harrisii, carnations, etc., brought to this market is enormous, and when the baskets and boxes are all spread out for inspection it is next to impossible to move about.

Violets are about out of the market for the season. Young Bros. are receiving the only stock of them that is coming in. These are of good quality but a few warm days will soon shorten them up.

Ernst Asmus has returned from Florida thoroughly recuperated and apparently as well as ever. He had a good time hunting and fishing. Just now he is after a different kind of game, viz., three varieties of worms: eel worms, army worms and rollers, which seem to give him plenty to do to keep up with the game, and there is no "close season." The army

worm is in one house of carnations only. He ensconces himself snugly among the petals of the carnations where his presence is only made known when he has chewed up half the flower.

August Rolker & Sons report largely increased sales of the paper flower pots, especially in 3½ and 4-in. sizes, many of those who bought last year doubling up their orders this season. The pot seems from past experience to be remarkably successful with bulbs, hyacinths, lily of the valley, etc., and verbenas do splendidly in it. Geraniums do not appear to take kindly to it. Market gardeners use it largely for tomato and cabbage plants, both of which do well in it and are in a convenient shape for retail trade or shipping.

The usual display of pansies and daisies in the large vases in front of the hotels and other establishments is now to be seen, and the tulips in the various parks and squares are beginning to look brilliant. A border of pink and white hyacinths around the basin in Union Square is surrounded all day by admiring visitors.

Three Broadway florist's stores are to be vacated on May 1, Bebus, Ekirch and Nugent. The former goes into the wholesale business and the two latter will probably locate elsewhere.

Pitcher & Manda had a fine stock of forced pæony flowers for Easter.

Owing to the late spring, nurserymen are still delivering the hardy stuff, a branch of the trade usually over by this time.

Among the many weddings of Easter week, one new idea was the use of a cornucopia of roses instead of the time-honored wedding bell. Another pretty thing was a bower of genista. All the decorations showed that either white and gold, or white and pink, were the leading colors.

Philadelphia.

The past week was Quaker week. It rained of course, it always does Quaker week. It is said of the Quaker sect that they are very economical and in holding their annual meeting they always choose the third week in April as it is pretty sure to be stormy, and in attending meeting no time is lost as no work could be done outside in such weather. Whether this is true or not it rained nearly the whole week and the Quakers got the blame for it.

Despite the weather, however, business has been very good, all the florists being busy and seeming to have about all the business they cared for. There were a great many weddings and at a number of these the decorations were quite elaborate.

Good roses of all kinds were very scarce, especially was this the case with Brunners. Mr. G. Brunner Anderson (he parts his name in the middle now) was a much respected man, both this week and last, as he had this part of the market all to himself, his large Brunner house being in just at the right time. He says he had no idea that the dealers were such a wicked set, for he says they would make all sorts of statements without regard to the truth if they could only by this means get another half dozen roses added to their order. The price was 50 cents instead of 40 as quoted last week. Roses this week are cheaper, the fancies bringing 5 to 8, hybrids 30 to 50, Perles, Gontiers 4 to 5, Jacqs 10 to 15, carnations 2 to 2½, valley 3 to 4, and the same for other bulbous stuff.

One of the quickest selling plants at Easter was the pelargonium. Karl Miller had an early pink variety in full flower and the plants sold on sight. This plant, for a late Easter, is just the thing and a great many of them could be sold if well grown.

At the regular monthly meeting of the Pennsylvania Horticultural Society held April 19 Mr. Charles Miller read a paper on "Landscape gardening as an art," which was very interesting, as was also one read by Mr. John Bell on "Spring flowers."

On Eleventh street, or Eleventh avenue as the inhabitants like to speak of it, they put their soul into the work as it were. If a man is engaged on a funeral design his countenance bears a very solemn look, any sign of frivolity disturbs him and interferes with his work, while the man at the other end of the bench making up a wedding bell is all smiles and looks as happy as if he were to stand under the bell himself.

There was not much rolling at the alleys for the past two weeks, but a new contest for a valuable prize will be commenced on Wednesday the 27th. As the first six in the order they stand at the close of the match, which will be about the first of August, will probably go to Washington, there will be a great effort to get up front and stay there. New pins will be ready for this match and it is quite likely to bring out some dark horses not now thought of. K.

I did not notice any novelties among the flowering plants at Easter. There may have been some but I did not see them nor was my attention drawn to any.

When the double lilacs become sufficiently plentiful to use for this purpose, they will be highly appreciated, I have no doubt.

The hot weather we had a few weeks ago, hurried the crops of roses along so rapidly that most of them were almost clean off at Easter. Hybrids showed the effects the most.

Several hundreds of Cypripedium Lawrenceanum came in opportunely to assist in helping out the rose.

In nearly all the stores I noticed quite a number of the "Grape Hyacinth" (Muscari botryoides) sometimes called "Blue Bottle." These, it was stated, were found growing in a wild state near Chestnut Hill, having probably escaped from cultivation. They are quite pretty.

The dainty sweet peas are becoming plentiful. I cannot understand why the variety called "Painted Lady" is grown for cut flowers. It is a striped variety, but the combination is not at all pleasing. The White, and Blanche Ferry, and Butterfly seem to be the favorites. L.

Boston.

When Easter was past it was found that there was was but little stock in the hands of either growers or wholesalers. The retailers had more or less on hand, the result of a sanguine feeling which took possession of them on Saturday afternoon. Up to that time they had bought cautiously. The sudden rush on Saturday made them hopeful of a big demand on Sunday morning but it did not materialize and, Sunday was unaccountably dull.

The slight overstock did no harm however as on Monday there was a big scarcity in wholesale circles and as everything had been cut close as possible the scarcity continued into the week, and it was not until Friday that flowers commenced to stick a little and prices began to drop from their Easter elevation.

Roses and carnations were quite scarce, the latter very much so, in fact, and ten to twelve dollars per hundred for Mermets and Brides, and three to four dollars for carnations any color, were the ruling prices.

At the last minute lilies were quite scarce for Easter. Saturday evening's demand cleared them out completely. This was true also of lily plants, many more of which might have been disposed of. Hydrangeas did not fare as well as the lilies and there were a good many left over. They do not seem to quite strike the Easter fancy.

A gratifying fact was the manner in which confectioners, jewellers and dealers in fancy goods generally decorated their windows with flowering plants, a most pleasing and sensible advance on the squatting plaster of paris rabbits with plethoric eggs suspended from their ears, which have hitherto been regarded as the appropriate Easter adornment.

Violets are about done for the season. Very few are coming in and those that are are very poor. Heath also is entirely cleaned up, and there are but few daffodils in the market. For specialities there are coreopsis in several varieties. English primroses of extra quality, myosotis, sweet peas and moss rose buds. There are enormous quantities of pansies coming in and the quality is superb.

Jacqs are plenty and there is a good supply of Brunners and other hybrids, but of Mermets and Brides of best quality there are none too many. White stocks and mignonette are the only overstock and no one wants these at any price.

There were no specially notable decorations in the churches here. Banks and groups of palms, lilies, hydrangeas, etc., were to be seen in every church, no matter what denomination, but very little attempt at festooning or cut flower decoration was to be seen, with the exception of crosses of lilies which appeared to be a favorite center piece almost everywhere.

The Public Garden is ablaze with hyacinths and narcissus.

David Allan has a fine batch of Dendrobium Dalhousianum in bloom. The length and size of flower spikes is unusual.

At the meeting of the Gardeners' & Florists' Club on Tuesday, May 3, Prof. G. L. Goodale of Havard Botanic Garden will deliver a lecture on "Famous Gardens of the World". The lecture will be illustrated by means of the stereopticon, the views shown having been collected by Prof. Goodale during his recent trip abroad. All gardeners and florists are invited to attend, with their ladies.

Baltimore.

There's always a calm in the center of a hurricane, meteorologists tell us, and that is probably what causes the dullness in the market this week. It is a fortunate thing in some respects though for it enables the dealer to collect his scattered senses, and some of his bills, before the full force of the spring trade is upon him. It is no hardship to the grower either for after cleaning up all his flowers for Easter, he finds a few days of slow sales very useful in getting up a fresh stock.

The weather has been very disagreeable, so much so as to keep ladies indoors most of the week, and interfere with the events of society to a very considerable extent; this has undoubtedly had some effect on the sales, but not so much as the quantities of flowers purchased last week, which must be allowed a few days to fade out of the vases and memories of purchasers.

Prices have settled down to pre-Easter figures; violets have about dropped out of the list, and the quality of all other stuff is generally "off". The demand for plants is increasing steadily and a few days more, if fair, will see roses, geraniums etc., in brisk demand.

Dutch bulbs in the various squares are showing up beautifully, and though not yet in full bloom, are sufficiently open to please all eyes with their gaudy colors. They seem generally finer than usual in spite of the severe and very changeable weather of the past winter. MACK.

The Nursery Trade.

The Silva of North America.

This is the magnificent and exhaustive work on the trees of North America north of Mexico, being gotten up by Professor C. S. Sargent, Director of the Arnold Arboretum. The book will be complete in 12 vols. the first three of which have now been published. Each vol. costs $25, and the price of the work complete is $300. This great cost places it beyond the reach of many of us who are interested in trees, and not a few, like myself, must be content to borrow the book.

Every nurseryman is interested in trees, hence in the contents of this book, for not only does it deal fully with all the trees of this country, but, incidentally in the text and in copious foot-notes it deals broadly and interestingly with many exotic species and varieties akin to the American ones under consideration. Those of us who aspire to keeping posted in our business are compelled to consult this work, for *it is the law in the science of our trees and their correct nomenclature.*

Vol. III is fresh from the press. It is confined to two natural orders of plants: namely, Anacardiaceæ, the order to which sumachs belong, and Leguminosæ, the order in which locust trees, redbuds and acacias are included. Of the first named order two genera: namely, Cotinus and Rhus, and six species are represented; and of leguminous trees seventeen genera and thirty species are given. There are fifty full page plates in which the flowers and their analysis and the leaves and fruit of every species are most accurately portrayed.

Now let us consider some of the text that may be of practical interest to us.

COTINUS COTINUS is the name by which we shall henceforth know the Venetian sumach, or smoke tree, Rhus Cotinus.

COTINUS AMERICANUS is the American prototype of the Venetian sumach and which has made quite a little stir among us during the last few years. We used to know it as Rhus cotinoides. As a decorative shrub it is inferior I believe to the ordinary smoke tree. It seems to be perfectly hardy with us, but I am informed it is not hardy at Boston.

OF THE GENUS RHUS we are told over a hundred species are distinguished, 16 or 17 of which occur within the territory of the United States. Rhus semialata is a handsome small tree from China and Japan and its foliage is reputed to assume orange and scarlet tints in fall. We have a fine tree of it, but yellow is as far as its leaves get.

RHUS VERNICIFERA is the laquer tree of China and Japan. The poison ivy (R. Toxicodendron) is indigenous to both the United States and Japan. R. lucida, a native of South Africa, is used as a hedge plant in countries bordering the Mediterranean, and why not in our Pacific and Gulf states? R. Metopium is a small tree in Florida. The staghorn sumach (R. typhina) is recommended to the planter on account of its excellent habit, ample and brilliantly colored foliage, large panicles of male flowers and its brilliant fruit. R. copallina, the prettiest and most spreading of all sumachs, is said to be a capital thing to plant on dry hillsides. There are narrow-leaved, white-flowered and other natural varieties of it. The name of the poison dogwood has been changed from R. venenata to R. Vernix. Mahogany is a name given to a small tree (R. integrifolia) found near the shores of Southern California.

ROBINA PSEUDACACIA is the common or yellow locust. Thirty varieties of it are recognized in gardens. One without any stipular spines is called inermis, and is planted in Europe for fodder; it yields two crops of young branches a year. Another named Decaisneana has rose colored flowers. The variety umbraculifera is the parasol acacia of European gardens. We have tried several of these varieties, the parasol among them, but they become infested to destruction with Cyllene robiniæ, the locust borer.

ROBINIA NEO-MEXICANO is a small tree. It is very thorny and quite hardy with us, but not promising as a decorative plant.

ROBINIA BELLA ROSEA of gardens is a supposed hybrid between the yellow locust and the clammy locust.

ROBINIA VISCOSA, the clammy locust, although widely naturalized is exceedingly rare in a true wild state, and nowhere known as such except near Highlands, N. C.

OLNEYA TESOTA is, when in bloom, the most beautiful tree of the arid regions of the Southwest; but all attempts to successfully introduce it to cultivation have failed. It has large bright purple pea flowers in short axillary racemes.

ICHTHYOMETHIA PISCIPULA, commonly called Jamaica dogwood, is a small tree of Southern Florida, and very handsome and conspicuous when in bloom. Its flowers are white tinged with red and borne in ample axillary panicles.

CLADRASTIS LUTEA.—This is the now accepted name of our magnificent yellow wood. It used to be called Cladrastis tinctoria, also Virgilia lutea. And the Asiatic tree we have long known as Cladrastis Amurensis has been dropped from the genus and christened Maackia.

IN THE GENUS SOPHORA we are told there are 22 recognized species. Still, aside from S. Japonica and its weeping form we hardly know it in gardens. Sophora secundiflora, however, a small Texas tree known as coral bean, is highly recommended for cultivation wherever the climate is mild enough. "Its lustrous, persistent foliage, large and fragrant flowers, conspicuous fruit, and brilliant seed make it a desirable garden plant." S. affinis from Arkansas and Texas was "introduced to cultivation in 1890." We have it, and it keeps alive outdoors, but is so unhappy that I am convinced it will not avail us in the north.

GYMNOCLADUS DIOICUS is the name we get for the Kentucky Coffee tree we used to know as G. Canadensis. We are informed that it is propagated by seeds, which are sparingly produced, and which sometimes do not germinate for two or three years, and more easily and quickly from pieces of the root. Another species, namely, G. Chinensis, occurs in Southern China.

GLEDITSIA TRIACANTHOS, the honey locust. It is recommended as a capital tree for drouth and dirt in cities, and one that isn't particular as to soil anywhere. Further, "The pistillate trees are more desirable than the staminate ones for ornamental plantings, as the fruit which hangs in great profusion from all the branches is conspicuous and beautiful from midsummer till it falls. The only sure way of obtaining it is by grafting seedling plants with grafts taken from trees known to bear female flowers." While I admit that the honey locust is one of the most symmetrical and elegant trees cultivated and will thrive most anywhere, even close by the seaside, on account of its villainous spines I'd never recommend it as a street tree nor to plant close to one's house. And the great profusion of its dangling bean pods which the eminent author considers so meritorious I regard as a particular objection in streets or well kept gardens or near residences because of their perpetual litter from October to April. This is very well in the forest or park but not in the garden.

THE WATER LOCUST or one-spined locust of the Southern Atlantic States, and which we used to know as Gleditschia monosperma is now called G. aquatica. It is not hardy in the north.

PARKINSONIA ACULEATA is a small tree found in Southern Texas, and widely naturalized in tropical countries where it is used for hedges, "its indifference to heat and drouth making it valuable for this purpose." The young branches of another species (P. microphylla) is used for fodder in the islands of the Gulf of California.

OF CERCIS, OR REDBUD, seven species are mentioned. C. Seliquastrum of Southern Europe is the type; C. Griffithii comes from Afghanistan, C. racemosa from China, C. Chinesis from China and Japan, C. occidentalis, a shrub, from the foothills of the California Sierras, and our two aborescent species, namely, C. Canadensis, the common redbud, and C. Texensis a small slender tree of Texas and Mexico.

PROSOPSIS JULIFLORA is the mesquite of the southwest, the most important leguminous tree of North America. It will thrive under more adverse circumstances than any other tree, and is at home in rich or poor soil, on rocky hillsides, saline flats or sandy dunes. Its taproot goes straight down into the ground 40 feet or more, till it reaches water and radiating horizontal roots spread out from it in all directions. The nearer the water is to the surface of the ground the more vigorous are the trees. Its seed pods are favorite and nutritious food for man and beast. It is easily raised from seed, and makes a capital hedge plant in warm countries.

THE MIMOSA (Leucæna pulverulenta) indigenous to the Rio Grande, is the most beautiful of the mimosa-like trees of the United States. Because of its quick growth, clean trunk, graceful feathery foliage and abundant flowers it is occasionally planted for ornament in Southern Texas.

ACACIA.—We are told 432 species are now distinguished and of these 300 are indigenous to Australia. There are three aborescent species in this country, namely, A. Farnesiana, known as cassie, and A. Wrightii and A. Greggii, both called cat's claw. A. Farnesiana is planted for ornament in all warm countries, and cultivated on a large scale in Southern Eu-

rope where its fragrant flowers are used in the manufacture of perfumery.

PITHECOLOBIUM FLEXICAULE, commonly called ebony, is a small tree of the coast of Texas. Its flowers are pale yellow or white in cylindrical spikes, fragrant, abundant, and borne from June to August. Aside from Leucuna pulverulenta and Acacia Farnesiana it is the most beautiful of our mimosa-like trees.

WM. FALCONER.

DENVER COLO.—Stark Bros., the well known nurserymen of Louisiana, Mo., on April 4 purchased the Cutler Ranch, near Littlejohn, for a consideration of $37,000. The firm has owned for several years a 100-acre tract adjoining the Cutler ranch, upon which fruit has been raised without irrigation, the basis of their cultivation being exceedingly deep plowing, the plow being put to a depth of thirty inches in many instances. They have made a success with the 100-acre tract and will try the same process on the 160-acre tract just purchased. The trees for the new land will be sent from the Louisiana nursery and will be cultivated without irrigation, though they bought water rights with the land. Work will be commenced at once. The fruit growers of Colorado will look forward to the ultimate outcome of the work of Stark Brothers, for heretofore it has been thought necessary to have water for irrigation. Their plan of deep plowing has been successful on the 100-acre tract.

ALEXANDER LYNARD, a traveling representative of a Bloomington nursery, has been arrested at Delavan, Ill., for forging a note for $200 at the Auburn State bank.

SAN BERNARDINO county, Cal., expends $1,000 a month on its horticultural commission.

IT IS REPORTED that the January cold killed the lowlands peach buds in Missouri.

News Notes.

CINCINNATI.—H. W. Gardner has sold out.

ANN HARBOR, MICH.—James Toms, one of the oldest florists in the state, died April 19, aged 80 years.

SOUTH BEND, IND.—Mr. A. Beyer, the florist, was recently so unfortunate as to have his right arm broken.

GRAND RAPIDS, MICH.—The spring flower show was very successful. Most of the florists took part.

ATLANTA, GA.—A son of Alexander Brown, the florist, of Jackson, Mich., was recently killed in an accident here.

EAST SAGINAW, MICH.—Wm. Roethke has removed to his new store, which is probably the finest floral store in the state.

BEREA, O.—Mr. J. C. Gooding, formerly of Cleveland, has built greenhouses here and will grow roses for the Cleveland market.

GRAND RAPIDS, MICH.—Geo. Hopp will build two large greenhouses at Reed's Lake and will use the title, the "Reed's Lake Florist."

ROCKFORD, ILL.—The recent storm was very severe in this section. H. W. Buckbee lost about 200 square feet of glass, and considered himself lucky to have had no greater loss.

INDIANAPOLIS, IND.—Mr. L. Swartling, formerly gardener at the Hospital for the Insane, has purchased John Keller's establishment and joined the ranks of the commercial florists.

SCRANTON, PA.—G. R. Clark & Co., made a beautiful display with hydrangeas, tulips, azaleas and other blooming plants at their store in the Y. M. C. A. Building, which attracted crowds of visitors.

PORTSMOUTH, N. H.—A. H. Stacey has bought the greenhouses and land formerly leased by him and will remodel and enlarge the houses to about double their present capacity the coming summer.

CLEVELAND.—P. J. Bauer has taken unto himself a wife. A. Graham has taken the store formerly conducted by J. C. Gooding. Batchelder Bros. are tearing down their old place and building a new one a short distance away.

PROVIDENCE, R. I.—The annual Easter exhibition by Mr. C. M. Kelley at his greenhouses on Waterman St. was very attractive. Hybrid roses, azaleas, Bermuda lilies, daffodils, tulips and hyacinths were shown in large quantities.

ELIZABETH, N. J.—Henry Leahy has in process of erection an extensive range of greenhouses on the block bounded by Chestnut, Walnut and Magnolia Ave, and contemplates by the planting of fine shade trees and shrubbery and other improvements to make a veritable floral park. The location is very convenient for business.

NORWICH, CONN.—The three houses built by G. Geduldig last fall were heated by the overhead system of hot water heating there being two 2-inch flow pipes and ten 1½-inch returns. Mr. Geduldig was much pleased with the work of the apparatus the past winter, being able to get up heat quicker and using less coal than with 3 and 4-inch pipes.

WARREN, O.—Easter trade was excellent and good prices were obtained. Though a town of only 6,000 inhabitants Warren has its crape chaser. Recently a very popular citizen was killed by a boiler explosion and before his body was cold a local florist visited the friends of the dead man soliciting orders for funeral flowers. But the people resented this exhibition of indecent haste and the fellow got only kicks for his pains, while the orders went to other florists who were less enterprising(?) than he.

IN VIEW of the fact that at several conventions of the S. A. F. local photographers other than the one selected to make the usual group photograph, have succeeded in collecting money for photos for which no return was made, it would be well for the Washington people to guard against this by giving to the official photographer some evidence by which he might establish his identity, and then warn members to pay no money to any other photographer.

GREENHOUSE HEATING.

BY A. B. FOWLER.

Explains fully all the best systems of heating greenhouses by both hot water and low-pressure steam. Tells you the points to consider in selecting an apparatus. How to adjust same to various locations; gives the results of the latest scientific experiments Shows how to compute the number of feet of pipe required for a given space; draft and other important matters.

It is highly commended by Mr. John Thorpe and others. Postpaid, 75c.

Sent on receipt of price. Address,

AMERICAN FLORIST,
CHICAGO.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By German gardener just arrived from old country. Has highest German references. Address T E. care American Florist.

SITUATION WANTED—By a reliable, sober man; 9 years' experience in the cut flower and plant trade; 26 years of age. Address
PRACTICAL FLORIST, Niles Centre, Ill.

SITUATION WANTED—As assistant foreman, by a young man who has been through the mill on one of the largest establishments in the U. S. Address METEOR, care American Florist.

SITUATION WANTED—As rose grower, young married man, small family; has had experience at Waban Rose Conservatories and can furnish best of references. Address J W.
67 Bromfield street, Boston.

SITUATION WANTED—By experienced florist and gardener, single, American, age 38, good references if required; understands roses, carnations, bulbs and mum growing; private place preferred. Address H, care American Florist.

SITUATION WANTED—As foreman; well posted in growing roses, carnations, violets and forcing of all kinds of bulbs. Also decorative and bedding plants. Over 20 years' experience. Good references. Address, stating wages, etc ,
FLORIST, 128 La Salle St., room 8, Chicago.

SITUATION WANTED—As foreman or propagator by an experienced grower of palms, ferns, roses, carnations, violets, etc —Chicago preferred No. 1 references; single, German, but capable of the English language; 8 years in the trade. Address
MR. F, cor. Lawnway and Tremont streets.
Fairmount, Cincinnati, Ohio.

SITUATION WANTED—A practical florist, gardener and mushroom grower, with experience in erection of greenhouses and managing the business successfully, desires position about June or July Very best of recommendations Single, age 25. Only a place where hard work and strict attention to duties will be appreciated, wanted. Address, stating full particulars.
B L, care American Florist, Chicago.

WANTED—A first class working florist; fair wages and prompt payment; none but sober men wanted. Address H A L, care American Florist.

WANTED—A practical florist looking for a good location for business, proof profits over $100 per month, home trade should address
TWIN CITIES, care American Florist.

WANTED—A partner in the florist and seed business in one of the best cities in the south, must be a live man with some capital, this is a splendid opening for the right party. For particulars address
J P, care American Florist.

WANTED—A strictly sober and reliable man; must be a good grower of cut flowers of all kinds; a good salesman, and fair knowledge of design work. Apply with references to
R. care American Florist Chicago.

WANTED—A strictly sober man for small commercial place Must be good grower of cut flowers of all kinds, and fair knowledge of design work. Wages $25.00 per month and board. Apply with references to EDW. AUSTIN, Effingham, Ill.

WANTED—At once, a steady, sober and reliable single man; must understand the growing of general stock, and be willing to work under instruction. References required. Wages $25 to $35 per month and board. Address
WM. A BOCK, North Cambridge, Mass.

FOR SALE—OR LEASE—Will lease or sell a growing business, with ample grounds and dwelling; greenhouses consist of about 4,000 feet of glass. Address FLORIST, 709 E. Broad St., Richmond, Va.

FOR SALE.

Nine greenhouses, containing 16,000 feet, of glass, with 8 lots of land, each 40x175 feet elegant dwelling with 11 rooms; barn, wagons, cart, horse and harnesses. The above property is located in one of the most beautiful western cities, within 5 miles of the city hall, within one square of electric and cable cars: the same will be sold cheap, as the owner is not able to run the same himself. The above houses have only been built 5 years; modernly constructed, 12x18 double thick best quality glass; heated by steam; abundance of water both from wells and cisterns. They are filled with palms, ferns, roses, carnations and bedding plants of all descriptions, and all will go with them. Address
J M, care American Florist, Chicago.

VINES.

	Per 100
Allamanda Hendersonii, 2½-inch pots,	$4.00
" " 4-inch pots,	8.00
Jasminum Grand Duke, 2½-in. pots,	4.00
" " " 4-inch pots,	10.00
" Multiflorum, 2½-in. pots,	4.00
" " 4-inch pots,	6.00
Cissus discolor, 2½-inch pots,	5.00
" " 3½-inch pots,	8.00

The above named plants are strong, well-rooted and healthy.

FRANCIS MORAT'S SONS, Florists,
No. 606 Fourth Ave., LOUISVILLE, KY

Davallia Stricta and Areca Lutescens.

Please give the best way of growing Davallia stricta and the treatment required by Areca lutescens. My arecas are turning yellow from some cause.

A.

Davallia stricta requires no special treatment other than such conditions as would be favorable for the growth of Adiantum cuneatum, that is a light soil moderately enriched, a temperature of about 60° at night and moderate shade on the glass at this season.

Areca lutescens may turn yellow from various causes, the most likely being either an unhealthy condition of the roots, or else too low a temperature during the winter, and in either case the trouble may be aggravated by too much water. The essentials for the rapid growth of this palm are a rich well drained soil, a night temperature of 65° to 70°, thorough syringing and some protection from full sunlight during the summer.

W. H. T.

For Spring Potting.

The best time to pot off small Palms and Foliage Plants is NOW, and they will then be ready to fill houses with for summer, after bedding plants are cleared. Cheap plants as follows!

	Per 100
Aralia Sieboldi, 2-inch pots	$10.00
Pandanus utilis, 2-inch pots	10.00
Areca lutescens, 2-inch pots	10.00
Dracæna terminalis, 2-inch pots	8.00
Latania borbonica, seed boxes	4.00
Cocos Weddelliana, seed boxes	8.00
Cocos plumosa, seed boxes	8.00
Asparagus plumosus, 3½-inch pots	40.00
Begonias, tuberous, single, finest flowers, distinct colors	10.00
Begonias, tuberous, double, very fine.	20.00

(Begonias are started, but can be mailed for next three weeks.)

JOHN H. LEY,
Tropical Nursery, Anacostia. WASHINGTON, D. C.
Mention American Florist.

CANNAS. CANNAS. CANNAS.

ADMIRAL COURBET $2.50 per doz

A variety that is not nearly so well known as it deserves to be. The flowers are nearest to pure yellow of the "Crozy" Cannas. They are beautifully spotted with scarlet.

EMILE LECLERC, yellow spotted orange, 60c per doz.; $4.00 per 100

PRESIDENT FAIVRE, the very best variety having dark leaves—flowers are crimson, $1.50 per doz.; $10.00 per 100

PREMICE DE NICE, is the most effective yellow for beds and massing up to the present time, $1.00 per doz; $6.00 per 100; $50.00 per 1000.

Order Early. Stock Limited.

EDWIN LONSDALE, Florist,
Wyndmoor, near Chestnut Hill PHILADELPHIA, PA.

GEO. W. MILLER,
WHOLESALE * FLORIST,
1748 N. Halsted Street,
Chicago, Ill.

ROSES AND PALMS A SPECIALTY.

PANSIES.

Strong field grown plants, mostly in bud and bloom, from imported seed of the German Imperial Prize (we think the best strain in cultivation), $1 25 per 100; $10 00 per 1000, delivered at the Express office here on receipt of price

C. F. OSBORNE & BRO.,
Fredonia, Chautauqua Co., N. Y

NEW CROZY CANNAS

will make you money **FASTER** than any other plants for the next year. We are headquarters for

	Each.		Each.
Madame Crozy, 3½ feet	$.60	**J. D. Cobos**, 4 feet, purple leaves, clear apricot flower	1.00
Star of '91, 3 feet	.50	**Alice Lefebvre**, 3 feet, cherry	.75
Childsii, 3½ feet	.20	**Edward Michel**, 3 feet, orange flowers	.35
Gustave Senneholz, 2½ feet, salmon	.50	**Henry de Vilmorin**, 4 feet, red shaded yellow	.25
Louis de Merode, 3 feet, large amaranth flowers	.35	**Perfection**, 3 feet, yellow spotted red	.35
M. Lefebvre, 4 ft., leaves veined purple	.35	**Maurice Rivoire**, 4 feet, bronze foliage, carmine flowers	.25
Gen'l Baron Berge, 4 ft, purplish crimson	.35	**Prof. Charguerand**, 3 feet, crimson	.35
Miss S. Hill, 2½ ft., amaranth	.75		
M. Duterail, 2½ ft., saffron	.50		

NEW YORK: 12 Barclay Street. **J. C. VAUGHAN, CHICAGO.**
EASTERN ORDERS PREPAID TO NEW YORK CITY.

TUBEROUS BEGONIAS, Seeds and Bulbs.

Our own grown Superior Strains.

TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

TESTED SEEDS of VICTORIA REGIA and all other WATER LILIES.

FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

ROSE HILL NURSERIES. **SIEBRECHT & WADLEY, New Rochelle, N. Y.**

My old time Specialty, the Rose MME. CUSIN, per 100 plants, $5.50.

Also **THE BRIDE**	per 100 $5.50	**THE WABAN**	per 100 $ 8.00
MME. WATTEVILLE,	" 5.50	**AMERICAN BEAUTY**	" 10.00

Also **BRIDESMAID,** SUPPLY LIMITED.

From 2-inch pots:	"This is the most beautiful pink rose known."	From 3½-inch pots.
12 plants $ 9 00	John N. May.	1 plant $ 1.50
50 plants 25 00	M. A. Hunt.	12 plants 15 00
100 plants 40.00		25 plants 25 00

SUNNYWOODS GREENHOUSES. **FRANK L. MOORE, Chatham, New Jersey.**

ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

FRANCES B. HAYES, HYBRID BOURBON. **AND OAKMONT,** HYBRID REMONTANT.

Extra fine Selected Stock for the Trade.

JOHN N. MAY, Summit, N. J.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

GRAND NEW CANNA "VENTURA".

Habit distinct, largest flowers of any sort yet offered. Self color. A beautiful blending of carmine and scarlet. Petals 1¼ to 1½ inches across by 3 inches long, tapering to center of flower and curving gracefully outward. Spikes large; flowers not crowded; foliage handsome dark green with darker line on edge of leaves; height 3½ to 4 feet. Splendid bloomer, vigorous grower.

75 cents each. Special rates for large quantities.

SEND FOR TRADE LIST. Mention this paper. **THEODOSIA B. SHEPHERD, Ventura, California.**

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

ROSES.

As I must make room I will sell **50,000** of the best greenhouse and bedding Roses, in perfect condition; fine young plants from 2 and 2½ inch pots, at **$30 per 1000.**

The following varieties to select from:

Queens Scarlet
Clotilde Soupert
Papa Gontier
Safrano
Niphetos
Solfaterre
Mignonette
Catherine Merment
Gloire de Dijon
Mlle. Frances Kruger
Marie Guillot
Mme. Lambert
Mme. Jos. Schwartz
Mme. Scipion Cochet
La France
Souv. de Victor Hugo
Paquerette
Souv. de Wootton
Marie Van Houtte
Pierre Guillot
Perle d'Or
Geo. Pernet
Etoile de Lyon
Luciole
Bon Silene
White Bon Silene
Hermosa
Comtesse de Labarthe
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Mme. Cusin
Duchesse Marie Salviati
Georges Farber
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Souvenir de Francois Gaulain
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Catherine Mermet
The Bride
Niphetos
Clotilde Soupert
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Marie Baumann
Ferdinand de Lesseps
Alfred Colomb
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Gloire de l' Exposition de Bruxelles
Gustave Piganeau
Mme. Renahy
Gen. Washington
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Coquette des Blanches
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La France, Sunset, Perle, 2½-inch, $4.50 per 100; 3-inch, $6.00 per 100.
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Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

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From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and Duchess of Albany, at $5.00 per 100; Meteor, at $6.00 per 100; American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

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Write for special price on 2,000 to 5,000 of the above.		
Ivy Geranium Jean d' Arc		4.00
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Strong heavy plants.....doz. $4 00
Lighter, equal to imported.....doz. 3.00
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DAHLIAS—50 vars., whole roots, proved sorts.....per 100 8.00
SMILAX SEEDLINGS Beautiful stocky plants, for immediate potting, 75 cts per 100; per 1000, $6.00.

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A GREAT LIBRARY.

From a valuable essay delivered recently before the Massachusetts Horticultural Society by Mr. W. E. Endicott, we learn that the library of that society is among those of its class one of the foremost five of the world, while its collection of purely horticultural works is, by far, the finest in existence. The number of plates of plants, fruits, flowers, etc., is estimated at 250,000, and there are not far from 6,300 books and 6000 pamphlets. On the reading desk are to be found fifteen out of nineteen English horticultural periodicals, nine out of ten American, five out of six Belgian, five out of nine French, several Austrian and German, and one each from Ceylon, British Guiana, Italy, Java and the Argentine Confederation, and of many of these the sets are complete up to the present time.

The number of volumes which demand notice for their age, rarity, beauty, costliness or intrinsic value, is so great as to bewilder and amaze any one who shall attempt to select all the noteworthy ones.

By far the most costly work in the library is the Flora Græca of Dr. Sibthorp and James Edward Smith. The expense of its production was no less than $150,000, and only thirty copies of this original edition were sold. It is in ten large volumes and contains 1,000 figures of Grecian plants in their natural size and colors.

Another remarkable production is the Flora Danica. It consists of eighteen volumes containing 3,240 colored plates. The work occupied one hundred and twenty-two years before it was completed.

It would take a volume to describe the many magnificent treasures of which the above are only a sample. Many are the only copies of their kind in America, many are one, two and three, even three hundred and fifty years old, and the number is constantly being added to.

Even all the trade catalogues of the present day are carefully preserved, and publishers of such who have not already done so, will help in the work if they will put the name of the Mass. Hort. Society on their mailing list. A complete card catalogue of the library has been in preparation for some time and is now nearly finished. Mr. Endicott said in closing his paper: "I speak my own mind, and I know I speak the mind of the entire Library Committee and I believe of the Society as well, when I say that we all desire to see the library as fully and as freely used as is consistent with its preservation, that we welcome to its privileges all persons whatsoever who are interested in these subjects, feeling that this is a possession far too precious to be selfish with."

AN AMERICAN ROSE SOCIETY.

The importance of the rose as a factor in the development and expansion of the florist's trade in America will be questioned by none. And that there should be a national organization to supervise the dissemination of new varieties, insure correct nomenclature, and above all to stimulate the production of improved sorts in America all will concede.

We are therefore much pleased to know that the preliminary steps towards the organization of such a society will soon be taken and we predict that the project will meet with enthusiastic support by the rose growers of the country.

The call, which will soon be issued, will bear the names of Messrs. E. G. Hill, J. N. May, M. A. Hunt, Antoine Wintzer, Robert Craig, J. C. Vaughan, Edwin Lonsdale, F. R. Pierson and a host of others equally well known to rose growers.

The new society will encourage the production of new roses in America by offering valuable prizes, in addition to certificates of merit, to American growers of new varieties that show a distinct gain over existing sorts in the same classes.



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Japanese Lotus (Nelumbium Nuciferum) "	1.50
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" Mermets, Brides	8.00@10.00
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" Jacqs	12.00@15.00
" Hybrids	15.00@25.00
Carnations	3.00@ 3.50
Valley, tulips	3.00@ 4.00
Daffodils	3.00@ 4.00
Dutch hyacinths	6.00
Italian hyacinths	4.00
Candidums	4.00
Longiflorum	8.00@10.00
Stocks	2.00
Callas	8.00@10.00
Mignonette, Myosotis	1.00
Spirea	1.50@ 2.00
Nasturtium, Coreopsis	1.00
Smilax	20.00@25.00
Adiantum	1.00
Asparagus	50.00
English Primroses, per dozen bunches	1.00

NEW YORK, April 26.

Roses, Bon Silene	2.00
" Gontiers	2.00@ 3.00
" Perle, Niphetos, Sunset	2.00@ 3.00
" Mermet, Bride	3.00@ 5.00
" Cusin, Watteville, Hoste	3.00@ 5.00
" Bennett	3.00@ 4.00
" La France	5.00@ 8.00
" Albany	5.00@ 8.00
" Beauties	5.00@30.00
" Jacqs	5.00@10.00
" Hybrids	10.00@25.00
Smilax	20.00
Carnations, long	2.00
Mignonette	2.00
Valley, Tulips	4.00
Harrisii	8.00
Violets	.50@ 75
Adiantums	1.00
Lilac, per bunch	1.00

PHILADELPHIA, April 26.

Roses, Brunners	50.00
" Baroness	50.00
" Laings, Magnas	35.00
" Beauties	30.00@35.00
" La France, Albany	8.00@12.00
" Mermets, Brides	8.00@10.00
" Jacqs	12.00@15.00
" Cusins, Watteville	4.00@ 6.00
" Perles, Niphetos, Gontiers	4.00@ 6.00
Valley	3.00@ 4.00
Carnations	2.00@ 2.50
Violets	.75@ 1.00
Alyssum	30
Sweet peas	3.00
Daffodils	5.00
Tulips	3.00@ 5.00
Harrisii	10.00@12.00
Candidums	5.00@ 6.00
Callas	10.00@12.00
Smilax	20.00
Adiantums	1.00@ 1.50

CHICAGO, April 26.

Roses, Perle, Niphetos, Gontier	3.00@ 5.00
" Bon Silenes	3.00
" Mermets, La France, Hoste	4.00@ 5.00
" Bennetts, Dukes, Woottons	4.00@ 6.00
" Albany, Bride	5.00@ 6.00
" Am. Beauties	10.00@25.00
" Jacq	10.00@15.00
Carnations, long	1.00@ 1.50
" short	.75@ 1.00
" long fancy	2.50
Romans, Tulips, Narcissus	3.00@ 4.00
Valley	3.00@ 5.00
Callas	6.00@ 9.00
Harrisii	10.00@12.50
Violets	.75@ 1.00
Adiantums	1.00
Smilax	20.00@25.00

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The Seed Trade

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MR. F. HOWCROFT, of Howcroft & Watkins, London, is making a trip through the United States.

MR. J. B. ROBINSON, for several years a member of the firm of Parker & Wood has retired from the firm and the agricultural business and connected himself with Harrington Robinson & Co., dealers in iron and steel. Mr. Robinson has made many warm friends during his twenty-five years service in the seed trade, all of whom will extend to him hearty wishes for his success in the new enterprize.

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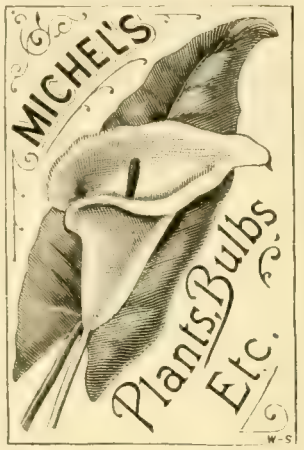
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By acknowledging that you saw this in the AMERICAN FLORIST I will for the next two weeks from the date of this paper, send you for $5.00, 1000 Rooted Coleus Cuttings of at least 25 kinds; the selection of sorts to remain with us. No cull stock. Cash with order.
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UNITED STATES NURSERIES'
IMPORT
BULB,
PLANT AND SEED SHEET
WILL BE MAILED NEXT WEEK to all florists, dealers and seedsmen in the United States and Canada; should any FLORIST reader not receive one and will write us, enclosing his business card, he will receive one by return mail. Below we mention a few of its special attractions, and DEFY COMPETITION:
LILIUM HARRISII,
OUR UNEQUALLED LARGE SIZES: 6-7 8-9 10-11
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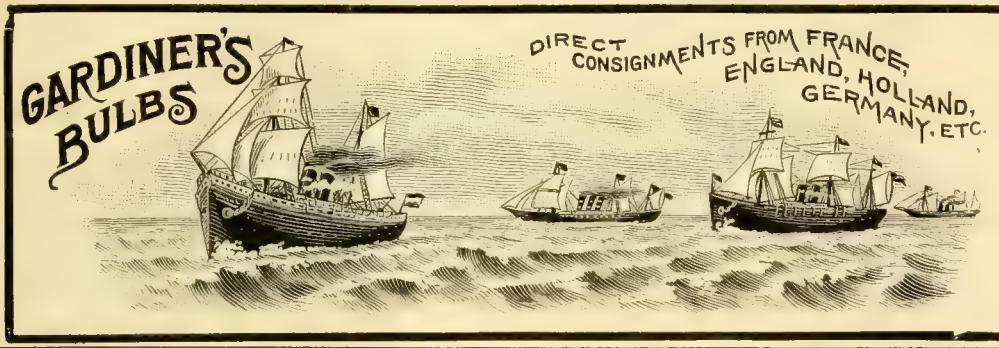
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7 to 9 " "	5.50	48.00	47.00	46 00
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Guaranteed full measurement.				
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Chicago.

Mr. J. A. Pettigrew has recovered from his recent illness and is again in the harness.

Mr. R. Ullrich is also around again though still far from strong.

Among recent visitors to the city were Messrs. E. G. Hill, M. A. Hunt, L. L. May, and representatives of the Holland bulb firms of L. Van Waveren & Co. and G. V. Van Zanten & Co.

It is still impossible to say anything definite about the International Chrysanthemum Show. The matter is yet under consideration and the chances seem favorable for the overcoming of the technicality that stands in the way. A meeting of the executive committee of the Hort. Society was held last Saturday, at which Messrs. E. G. Hill and M. A. Hunt were present, and the matter was talked over considerably, but everything now depends upon the World's Fair Committee. Whatever is done by the committee, the Hort. Society will act quick. If the International Show is possible President Chadwick, of the Hort. Society, stands ready to advance funds for preliminary work and thus avoid any delay on that score. If the greater show is impossible, the schedule of the Hort. Society for a show on its own account will be out within a few days after the decision is made.

The Local Committee of the Horticultural Division of the Department of Agriculture met at the headquarters of the World's Congress on Saturday, April 23. There were present Prof. W. W. Tracy, of Detroit, Mich., E. G. Hill, Richmond, Ind., Chief J. M. Samuels and John Thorpe, and Chairman J. C. Vaughan. Samuel M. Emery and Prof. Wm. Trelease were absent. E. G. Hill was chosen Secretary, and a general discussion followed after a statement covering the outlines of the work by the President, Chas. C. Bonney. A general plan was formulated for preliminary address to be issued soon, and the work for the next month was laid out and assigned to the various members of the committee.

Mr. W. W. Boyington is preparing to tear down his greenhouses at Highland Park and cut the land up into building lots for residences. He has arrived at the conclusion that the growing of cut flowers for market is rather an expensive amusement and will hereafter devote all his time and attention to upholding his reputation as one of Chicago's leading architects.

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LANCASTER BEAUTY VERBENA.—A distinct novelty; very pretty and a good selling sort, $2.00 per 100. Mammoth and other good varieties mixed, at $1.00 per 100, or $8.00 per 1000.
PANSIES.—Good stocky little plants in bud and bloom, at $2.00 per 100, or $15.00 per 1000. 25) at 1000 rates. Almost every florist knows how good the strain is.
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Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

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	Per 100	Per 1000
Mammoth Set, stock plants	$ 3.00	$25.00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	2.50	22.00
" " Rooted Cuttings	1.00	8.00
Lemon Verbenas, 1 year old, strong	6.00	

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1.00	8 00
Feverfew (Little Gem), extra strong	2.00	15.00
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Pansies, fine clumps in bloom, $3 per 100; $25 per 1000. Pansies, second size, in bloom, $2 per 100; $15 per 1000. Chrysanthemums, rooted cuttings, $2.00 per 100; $15.00 per 1000.

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HAIL

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JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Toronto.

Certainly no one except a born grumbler could have anything to say against the weather this Easter, it having been just as fine as possibly could have been wished for, though no doubt those who did not do as much business as they thought they ought to have done will be able to pick it to pieces and find therein the cause of their slackness. What should we do without the weather for a scape-goat?

The Churches that decorate for this festival used larger quantities of flowers and plants this year than formerly and it seemed to me that more taste and common sense was brought into play in placing them than aforetime, though I noticed one or two very badly decorated and disproportionate crosses; most ladies think that a cross is easy enough to "do" and so it may be to those with a good eye, but there seem to be very few who can catch the proper proportions.

Amongst the flowers of course roses, carnations, daffodils, Roman hyacinths and lilies predominated, but in one church I noticed a lot of light bronze chrysanthemums and very pretty they looked too, something quite out of the way for Easter decoration.

Altogether I should say that there was a considerable increase in the volume of trade over last year in all classes of stock, but I intend to enquire more particularly into this.

We used a few years ago to have the impression that orchids were very difficult to grow but I am beginning to have the opinion now with regard to some of them at least that they are very hard to kill. Two sorts which most of the boys know and which have been knocking round this city for the last thirty years or more, nothing short of a good brisk oven and a chaff cutter can destroy the vitality of; Cymbidium aloifolium is one and the other is I believe an epidendrum that bears a bunch of little pink flowers like a feeble head of candy-tuft; they used to be very handy stock to have on hand to give away or to trade to the uninitiated; the latter could be passed off as a dendrobium sometimes and the cymbidium has fine strong foliage and looks as if it might produce something worth having in the way of flowers, but it doesn't. Now, since Bunyard and that ilk have visited the city the racket can't be worked worth a cent and the rubbish heap is likely to be the fate of these two old and faithful friends. Such is life! I keep a plant of each for auld lang syne.

The regular meeting of the Gardeners' and Florists' Association was held Tuesday and as usual it was a lively and interesting one, though not quite so well attended as usual; there is always a falling off at this time owing no doubt to press of spring work and Easter business. Botanic Gardens and World's Fair chrysanthemum show were the "pieces de resistance," and they resisted so much that they were laid over till next meeting.

E.

500,000 CELERY PLANTS.

ALL LEADING VARIETIES.

READY MAY 1st at $2.50 per 1000.
Larger lots very cheap.
Outside plants ready June 20th, at $2.00.

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ONE YEAR, 12x15 inches, fine	$5.00	per 100;	$40.00	per 1000
TWO YEARS, 18x24 inches, fine	6.00	"	50.00	"
TWO YEARS, extra selected, 2½x3 feet, strong	7.00	"	60.00	"
THREE YEARS, twice transplanted, 2x2½ ft., nicely branched	8.00	"	70.00	"

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Our Special Spring Price List to the Trade, page 555 February 4th AMERICAN FLORIST.

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The sun showed himself Saturday for the first time since Good Friday. The dark, rainy and cold weather has been hard on roses. There is now plenty of bulbous stock blooming in open ground.

A very beautiful tree just now in bloom at the Botanical Garden is Pyrus floribunda. The blossoms hang in graceful clusters of 15 to 20 flowers. The petals are bright rose color outside, and a delicate pink inside. The leaves are just large enough to make the green contrast well with the flowers. This tree is worthy of more attention than it now receives. It would be a good thing to have a few trees from which to cut bloom for the cut flower trade.

Three of the six scholarships offered by the Mo. Botanical Garden were vacant at the close of the year ending Feb. 29th. These were filled as follows: Arthur T. Irwin of Fulton, Mo., nominated by the St. Louis Florist Club; Emile Misch of Syracuse, N. Y., and Clyde Blankenship of Berkeley, Cal., the last two by competitive examination. Mr. Blankenship has not yet reached the garden. In accordance with the recommendation of the Director of the Garden, The Board of Trustees has reduced the course from six to four years. This course was contemplated by the Director when the course of study was first planned. After two years experience with the first appointed pupils, it has been found that the work can be satisfactorily done in four years. The course of study is as follows: First year; pupils will labor in the different departments of the garden nine and a half or ten hours a day. The second year, in addition to five hours daily labor instruction will be given in floriculture, elementary botany, small fruit culture, orchard culture, surveying and drainage, and the botany of weeds. The third year, in addition to five hours daily labor of the same sort, they will be given instruction in vegetable gardening, botany of fruits, botany of trees and shrubs, trees in their winter condition, landscape gardening, fungi, and book-keeping. The fourth year, in addition to five hours daily labor of the same sort, they will be given instruction in economic entmology, vegetable physiology, botany of garden plants, botany of ferns, botany of greenhouse plants, forestry, special theoretical gardening, and garden accounts. In order to reduce the number of classes, a part of the above subjects will be given in alternate years.

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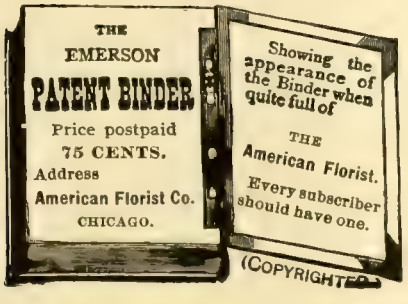
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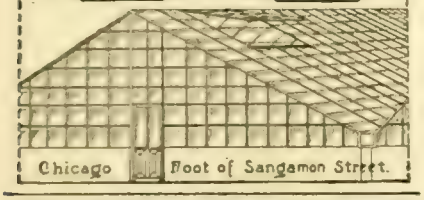
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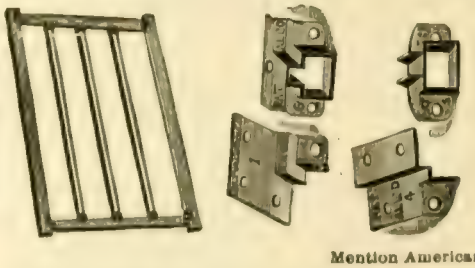
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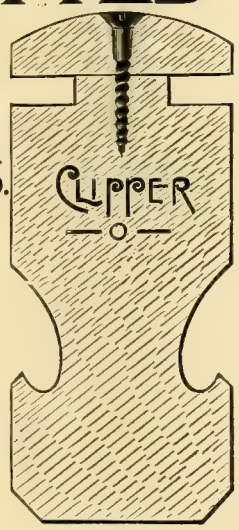
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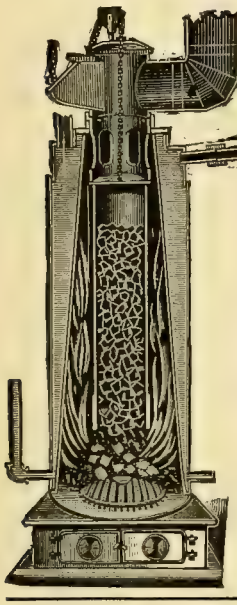
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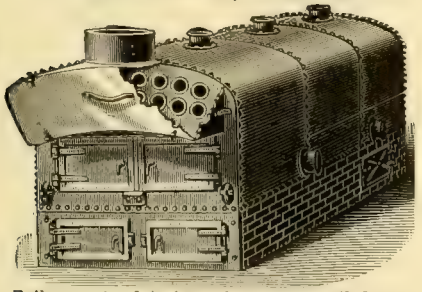
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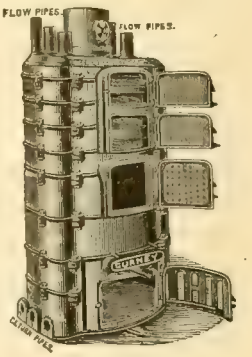
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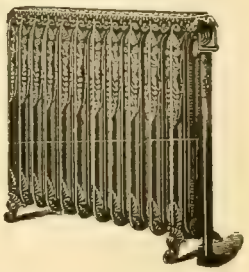
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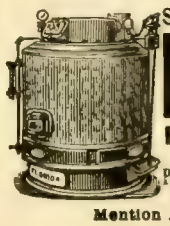
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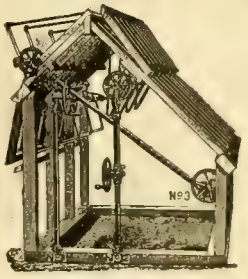
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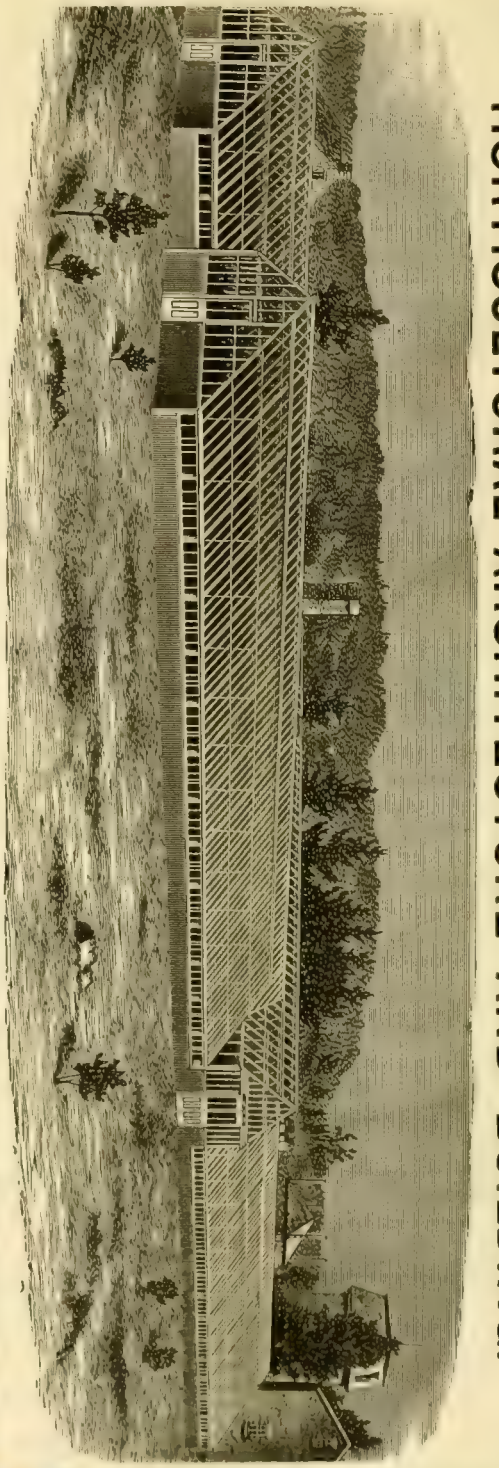
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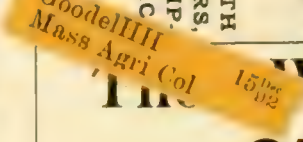
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Vol. VII. CHICAGO AND NEW YORK, MAY 5, 1892. No. 205

THE AMERICAN FLORIST

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L. TEMPLIN & SONS have broken ground for their new greenhouses at Calla, O.

THE LOSS of Wilson Bros., Springfield, O., by the recent fire is estimated to reach $10,000.

AN International Horticultural Exhibition will be held at London beginning May 7, and extending through the summer till October.

Our Telephone.

"Hello, central! Please connect us with Mr. John H. Taylor."

"Mr. Taylor of Bay Side, Long Island, I suppose you want. Oh, I know him! And isn't it a pity his house was burned down? I was up there the other day to see the roses and it did look too bad to see nothing but just the cellar left where the handsome residence had stood. But so long as the roses were uninjured it don't seem quite so bad, does it? And, after all, I don't know whether I most admire the big roses in the greenhouses or the dainty anemones and bloodroots which you now see dotted so thickly all over the ground on both sides of the lovely driveway."

"Well, never mind, central. You seem to be wound up this morning. Kindly connect us with Mr. Taylor without further delay and we will forgive you."

"There he is. Go ahead."

"Good morning, Mr. Taylor. The FLORIST's readers would like to have you tell them something about your roses. How have they done this year? What is your specialty in tea roses? Anything of your experience which you will kindly favor us with will be valuable news for our readers."

"Very glad to tell you anything I can that will be of interest or valuable to your readers. But I have no 'specialty' in tea roses. No one rose is at its best all the year round. We grow Cusin, Gontier, Watteville, Mermet, Bride, Hoste and Perle and would not omit one of them. I don't think it good policy to confine one's self to a single variety. Even when sending the goods to a large commission house as we do, I find the best results are attained by having a fair proportion of all the good market varieties.

"Cusin is a great winter rose and is the best tea we have in the pink color. In the houses it is particularly desirable for the side benches as it is not too rampant a grower and every shoot carries a bud. It is getting a little warm now for this rose and the quality of the blooms is not what it has been. The only trouble with the Cusin is that when it comes deep colored as it does at this season of the year there is a tinge of magenta in it.

"Watteville is too strong a grower for the side benches. Owing to the ease with which it burns it is not much good between April 1 and November 1, but it is grand the rest of the year. Its season may, of course, be extended somewhat by shading.

"Perles are good to have just at present. The demand in winter is not so good, as roses are then used mostly for evening work, for which yellow is not a desirable color.

"Mermets we had difficulty early in the season to get sufficiently deep in color. One of my sports from the Mermet, which singularly enough appeared in the same season as the Waban and Bridesmaid, although not quite as deep in color as either of these varieties is yet a good bright pink in all kinds of weather, but the petals are somewhat cupped and I do not like the form of the bud as well as that of the Bridesmaid.

"With the Waban I find two faults. First, it is hard to get perfect flowers, and second, it is almost impossible to keep mildew off. When it is good it is superb, though. I took a few extra fine blooms in to Thorley and he didn't know what they were. On my asking him whether I should continue to grow it he replied 'By all means.'

"Hoste is a grand rose and profitable to grow; the only substitute for Cook, and I consider it one of the indispensable teas.

"Gontiers have done splendidly with us every year. But the house I take most pride in is a 250-foot house of Brides. The plants are about six feet high and the cut from them has been remarkably even all winter, more so than I have ever before known. It is just a sheet of white every morning and is then a sight well worth seeing."

"How many years do you run your plants?"

"That depends upon circumstances and upon the variety. I have a house of Gontiers now two years old which I shall run another year. I dry it off in summer just as we do hybrids. It gives a constant and tremendous crop all winter through. The canes are enormous, some of them not less than half an inch thick. My two-year old Cusins I think I shall run another season, but you'll never catch me running a two-year old house of Perles again. This is the first year I have tried it. I get strong wood and lots of 'bull heads.'

"We propagate all our own stock, whatever we need for the season's planting. I like the February and March cuttings. They make the best and strongest plants in the fall."

"How about hybrids? Is there still a place for them in the New York market?"

"Yes, some varieties. Luizet, Laing, Rothschild we must have for their color, but I believe Magnas are out of it. The American Beauty has injured Magna. There is no question about it, and it will drive any hybrid of similar color out of the possibilities. But if we grow chrysanthemums we must have something to fill our houses with after the chrysanthemums are off. I struck it just right on Magnas for Easter this season. I let them follow the chrysanthemums and come on naturally without excessive heat and got a great crop of fine blooms."

"Have you been troubled any with the roller worm on your hybrids?"

"Yes, a few years ago they struck us

and it took us three years to get rid of them. We followed them up closely and by constant watching and hand picking we gradually overcame them and this season none have appeared."

"Do you grow the Hinsdale carnation as much as formerly?"

"No; whether it is in the treatment or what not, the Hinsdale has not done well with us lately. It is nothing to what it used to be. Then, besides, they don't seem to want it in town at all. Silver Lake has been my most profitable carnation this season. It is a strong robust grower, pure white. It bears much more heavily than McGowan. The flowers are not as fine as the McGowans, but they bring just as good a price in the market. We got the rust disease badly on the McGowans. Tried 'Little's Antipest' on them with great success. Gave them a very weak solution in three applications and they are now perfectly clean. Paxton is doing well with us, and I intend to go into it more extensively next year. May Queen is the only pink variety we can grow here."

"Have you had good success with lily of the valley the past season?"

"The early batches did not do so well as usual. There was great difficulty in getting leaves. I never had so much trouble before. I think they are in too much of a hurry to ship the stuff to this country in the fall. The great demand for valley for Christmas forcing is partly the cause of this, and they don't wait to allow the roots to get thoroughly ripened."

"We understand you are building some new houses."

"Yes. Lord & Burnham are just completing for me two new iron houses each 200 feet by 20; 18 feet 6 inches is the regulation width of such houses, but I prefer to make them 20 feet; the difference of 18 inches comes off the back center bench, which is the best bench in the house and I don't like to narrow it up.

"The construction of my houses differs in several respects from the ordinary type in such houses. I do not believe in grooved sash bars. If a house is properly built and glazed there will be no drip and no necessity for any groove. The groove only weakens the bar and I see no use in it.

"South ventilation is another idea on which at one time I could find nobody to agree with me, but now many of the large growers, including Mr. E. Asmus, and some of the Madison establishments have adopted it. In all my houses I have provided doors in the back wall which can be used for north ventilation or for filling in soil.

"The new houses will not add materially to the amount of glass already on the place as I intend to drop off my upper range of old sash houses this season. That is, we shall not heat them again. I do not propose to tear them down at present, but shall fill them with roses for summer blooming. I have thought favorably of Luizet for this purpose and one of the houses is already planted with La France. I can get two or three good crops off it, including one in August, and there is always room in the market for a moderate supply of good roses during August."

THE M. C. R. R. Co. are putting up three 20x60 foot houses at Niles, Mich., to grow bedding plants for the ornamentation of their line. This is a step forward.

THE FLORIST'S new address is 322 Dearborn street, Chicago.

New Plants of 1891.

The Kew Bulletin just received is devoted to the "New Garden Plants of the Year 1891." Two hundred and sixty-one "new" plants are enumerated in it, and one hundred and fifty-five genera represented. Orchids are pretty numerous. There are 19 cypripediums, 18 odontoglossums, 10 cattleyas, 5 lælias, 4 oncidiums, and 3 ærides. Among other plants there are 4 each of anthurium, lilium, galanthus and hibiscus, but these are the highest numbers; the other genera are represented by from one to three species or varieties. The whole list is little other than a condensed compilation from florists' catalogues, and the horticultural press. The following are a few of the new plants mentioned.

CALAMPELIS SCABRA VAR. ROSEUS.—A seed novelty this year and the first break in color from the old C. scaber whose flowers are orange-red. Easily raised from seed, at least what I sowed came up nicely. But why spell it "scabra"?

CYPRIPEDIUM BROWNI.—A garden hybrid between C. magnificum and C. leucorrhodum, raised by Pitcher and Manda, of Short Hills, N. J., finds a place among the new 19.

FORSYTHIA INTERMEDIA. — "A garden hybrid between F. suspensa and F. viridissima." A very unfortunate name considering that the specific identity of these two plants is disputed, and all manner of intermediate forms may be secured from seeds of either of them, and that too without any fertilizing contact between them.

HELENIUM BOLANDERI —A little California annual that is not new either in European or American seed-lists.

HIBISCUS CALIFORNICUS.—A hardy herbaceous plant much like a white-flowered form of our eastern swamp rose-mallow (H. moscheutos) and not at all new to cultivation.

HIBISCUS CALYCINUS. — "The correct name of the plant introduced and distributed a few years ago under the name of H. chrysanthus. Native of Natal." A capital plant for outdoor work in summer. Of bushy habit. Bears numbers of large, blackeyed bright yellow flowers in late summer and fall. Strike a few cuttings to keep over winter.

ILEX MONTICOLA.—From the Alleghanies. Does well with us. Still, I question if it will ever become a popular shrub in the north.

IRIS ROBINSONIANA —It's about time this plant was getting old now; certainly we have seen and heard a good deal about it during the last few years.

LILIUM MARTAGON X HANSONI. — "A hybrid between the two species named, raised by C. G. van Tubergen, Haarlem." This hybrid lily is specially noticeable for two reasons: namely, that aside from it and testaceum we are not sure that a hybrid lily (Lilium) has ever before been produced, also that L. Hansoni has not, so far as I know, ever borne seed in cultivation. In this case, it was only the pollen parent. In fact, Mr. J. G. Baker, the great systematic botanist at Kew, writes: "The only clear and undoubted instance (of hybrid lilies) known at present is Lilium testaceum, the Nankeen lily, which is evidently a cross between candidum and chalcedonicum." Of course we all have heard of L. Parkmannii and L. Hoveyii and many of us have seen them in bloom, but of recent years when so many different forms of auratum have come to us from Japan, we begin to ask ourselves were they hybrids at all?

LILIUM ELISABETHÆ. — "This is the same as L. Japonicum."

MAGNOLIA WATSONI. — "A deciduous species with large creamy-white flowers with blood-red filaments. This is a gem, quite hardy, easy to grow and sure to bloom. Indigenous to Japan. Although new to Europe it has been in cultivation in this country for several years, and has before now been mentioned by me in the FLORIST. It is in its best bloom with us during the first fortnight of June.

MALUS PARKMANNI, FLORE PLENO.—A synonym of Pyrus Parkmanni. A beautiful tree or large shrub. It shows relationships to M. spectabilis and floribunda; it is, perhaps, a hybrid between these two species. A few years ago it was a plant novelty in this country and is now well known. It is in full bloom with us about the 6th or 10th of May according to the season, and then, without any exception, I think it is the loveliest tree in our collection. The flowers are only semi-double and more beautiful in the bursting-bud condition than when full open. Although for practical garden purposes we call it Pyrus Parkmanni, its proper botanical name is Pyrus baccata floribunda flore pleno.

PENNISETUM VILLOSUM.—"An ornamental grass of tufted habit with long, dense, plumose, white spikes. Abyssinia." I wonder if this is the same thing as P. longistylum? Although the name has appeared in seed catalogues for years it isn't in Nicholson's Dictionary. To test it, some years ago I bought seed and grew the plants alongside of the genuine longistylum, but could find no difference between them. By the way, what a number of people were interested in that grass bed in the FLORIST, page 663. In a few days I gave away all my spare seed of the Pennisetum and had to disappoint several friends.

ROSA WICHURAIANA.—"A handsome species with dark glossy green leaves and white flowers, suitable for clothing rocky slopes, etc. Japan." This is the Rosa bracteata of European nurseries. Within the past few years it has been largely propagated in this country and is much in demand by landscape gardeners. It is an exceedingly fast growing running species whose nature is to spread out flat over the ground and form a carpet, and not to climb. Its leaves are dark green and shining, and it bears terminal clusters of somewhat small, white, fragrant flowers in July. It has been largely advertised within a year or two.

WELLINGTONIA PYRAMIDATA COMPACTA. —A garden variety. When will the people of Europe drop this "Wellingtonia" name and gracefully accept the proper one, Sequoia? WM. FALCONER.

Cut-Worm Remedies.

The season for the cut-worm is again at hand. When so numerous as they sometimes are in newly turned sod ground, it often is quite difficult to free the ground of them before they have done great harm to plants. In flower beds and forcing houses they are usually not so numerous, but may do equally as great damage by severing rare and more expensive plants.

Where the cut-worms are not too numerous much of the protection depends upon the early detection of their whereabouts. As soon as their work is suspected, a little digging around the plant will often



GRASS BED AT THE NATIONAL BOTANIC GARDEN, WASHINGTON, D. C.

reveal them when they can be killed before doing any great harm.

Many remedies are advocated, some very good, but many entirely worthless. The best are the only ones that need mentioning. To *prevent* attack is difficult and rather tedious when extensive, but often the most practical where costly plants are endangered. Probably the best preventive is to encase each plant in a pasteboard box from which the top and bottom have been removed, or a tin can fixed the same way. These cases should be as small in diameter as possible and still not interfere with the growth of the plant while the protection is needed. They should be pushed into the surface soil sufficiently deep to prevent the cutworms crawling under. When carefully carried out, this method is quite satisfactory. It is also used in protecting young garden plants.

If the cut-worms are found to be numerous in a vacant plot soon to be used, much can be done to rid the plot of them by taking freshly cut clover grass or mullein and dipping it into a strong solution of Paris green and then distributing it in bunches over the ground. If they are hungry, they can be poisoned in this way and the ground can be used with no fear of their depredations. Where sod must be used it is well to turn it over early in the fall and every week or two stir thoroughly especially in the spring till it is needed for use. This brings the larvæ to the surface where they are much more exposed in every way and their numbers diminish.

Some have recently reported that they have had trouble in keeping flower and foliage beds because the cut-worms would come in from the surrounding sod and feed upon the tender plants. To stop this there is probably no better remedy than to soak the surrounding sod in kerosine emulsion. The ground should be wet down several inches. The emulsion will do the grass no harm if properly made, and diluted so that there is only one part of kerosine to fourteen of the soapsuds. For fear all do not know this formula, perhaps it would be well to give it in brief. For every two quarts of water used, take one-fourth pound hard soap, or one quart soft soap, and dissolve in the water by heating to the boiling point. After this, remove from the stove and for each two quarts of water so used add one pint of kerosine oil and then, by the use of a spray pump, pump it violently back upon itself for about five minutes into the vessel used. This should make an emulsion from which no oil will rise when diluted with water. If this sample stands the test, add twice as much water as you have emulsion, or if soft soap is used take as much water as you have emulsion, mix and apply. A pump must be used in making the emulsion as stirring with a stick or spoon will not form an emulsion.

G. C. DAVIS.

Agr'l College, Mich.

A Handsome Grass Bed.

The grass bed illustrated in this number of the FLORIST is 120 feet in diameter. It has for a center the Arundo Donax, the reed so often mentioned in the Bible as "What went ye out for to see? a reed shaken with the wind," etc.

It is a native of Palestine, Egypt, abundant on the borders of the Dead Sea, common in the south of Europe, and grows with us 15 feet high. Its glaucus green color is restful to the eye. Around it are four pieces of Erianthus ravennæ from the south of Europe. Just how far north of this it will prove hardy it is a question.

Next comes four plants of Eulalia Japonica zebrina, the tallest growing of the three forms; the variegated form next; then the very distinct gracilis, or gracillimum of some. We have not seen a description of it except in trade catalogues. The eulalias are much more hardy than the others.

Then comes the variegated arundo growing about four feet. This we plant every year. It is not quite hardy in all places here.

Cyperus alternifolius, from Rio Janeiro, we plant out every year and its fine green is effective. Pennisetum longistylum, an Abysinian grass, planted in clumps near the front, makes an interesting feature. Pennisetum latifolia, from Montevideo, growing a little taller, is a good ornamental grass. Gymnotrix is the old name for pennisetum. The purple stemmed sugar cane adds interest to the group.

Cannas interspersed between, with high colored foliage plants and the whole edged with the best colored alternanthera, makes a cheap, graceful and very attractive flower bed, that even our friend McMillan, of Buffalo, with his refined taste, I think would be pleased with.

Washington. WM. R. SMITH.

Fungi Common to Wild and Cultivated Plants.

In an article with the above heading in the Botanical Gazette, Prof. Byron D. Halsted says:

"It has been shown by means of a long series of examples that the evil influences of wild plants may act at long range. It is not necessary that their roots and those of the cultivated plants should cross each other's paths in the soil or that their branches should interlock and overshadow one another in a deadly embrace. There is a more subtle bad influence than gross thieving or clutching by the throat. It is more in the nature of a poison that is sent out upon the air to be breathed in by the innocent wherever they may unwittingly meet the unseen but deadly germs. Crowding of plants is bad, rank growth of weeds is worse, but the most fatal of all influences is that unseen group that steal away the health of the plants which lack nothing for room and enjoy high and thorough culture.

"After all it is the host of enemies that swarm from the plants outside the garden fence that try the patience of the husbandman. He has learned the methods of re-

medying the others, but the floating spores defy his keenest eyesight to discern and baffle his ingenuity to combat. The ways of the fungi are however being slowly and laboriously revealed by the microscope and conquered by the spraying pump. The former assists the latter, which as yet somewhat blindly fires effective 'small shot' into the enemies' ranks.

"Proper seeding, fertilizing and weeding will do much to assist in warding off the deleterious influences of fungous enemies, for healthy plants, while not proof against their attacks, are less liable to be overcome by them. Let therefore everything be done that is possible before the last resort comes and then the fungicide will have the greatest effect and yield the most returns. If so much of the smut, rust, mildew, mold, rot, and blight of our cultivated plants is propagated by the wild plants hard by, it may be wise for every crop grower to pay attention to what is thriving outside his garden wall. He cannot build it high enough to shut out the spores, but he can do much to diminish the number of these spores. Having done this, he can take up the spraying pump with a brighter hope of future success. There was a carcass, so to speak, in the pasture and he went out and buried it. Fungi are the basis of contagion and they infect at long range by means of their myriads of invisible spores. To learn of their ways and find better methods of resisting them make the burden of many a station botanist to-day."

Interest in Local Societies.

"How can we make the florists of the country take more interest in and properly support local societies?" is the query propounded by one of our readers, and he asks for a general discussion of the subject in these columns. He sends a copy of the list of subjects brought up for discussion at their last meeting and certainly there should have been something among the subjects noted to interest every florist in his state if treated in a practical manner by those to whom they were assigned. Still he says that the attendance has dwindled down to almost nothing. He adds that the whole work of the society falls upon the shoulders of the officers of the society and that it seems impossible to instill any active interest into the rank and file.

This problem is not a new one by any means. And the difficulty is not confined to organizations of florists alone. The work in any organization is always done by a few enthusiastic members who take up the burden and carry it on. The other members are dormant to a great extent until some unusual event occurs which may at last awaken their enthusiasm for a time at least. But when the reaction occurs the old standbys must take up the burden again to prevent the ship from going down. Even one bright, active individual may make the difference between success and failure in an organization, and two or three can work wonders. But the mass of the membership can rarely be depended upon for active work. But even if only a dozen attend the meetings the organization is doing good and should not be abandoned. The existence of a trade organization in every city large enough to support one is positively demanded by *your* interests as well as those of the others in the trade, and because some of your neighbors may be constitutionally tired is no reason that you should cease your efforts to keep up the credit and the dignity of your profession.

No organization is perfect. Some are better than others, but a perfect organization will never be had until there is a body of perfect men to form its membership. Every organization has its fool. Every one has the member who talks on every subject he knows nothing about until his hearers' ears ache. Every one has members who could give a vast deal of acceptable instruction and advice, but who persist in maintaining silence. Every one has in its membership intelligent men who become disgusted at the first exhibition on the part of the fool and the animated windbag and come no more to the meetings, wronging the other members as well as themselves by their failure to do their share toward bringing out the intelligent members and keeping in subjection the elements that threaten the life of the organization.

It is a curious fact that men whose conversation is always bright and enjoyable are frequently dry as dust when they address an audience of over two. They seem to think that they must then adopt a different mode of expressing their thoughts, or use different words, and in the selection of the proper words and phrases they accidentally omit the ideas. As a result they send forth a gaily colored wagon but without any load, and as it's the load and not the wagon his hearers want they are generally sadly disappointed. Oratory is needed on mighty few occasions in this hard, matter of fact world. What we want are plain unvarnished facts and the language used in ordinary conversation can convey such facts far more effectively than the most brilliant oratory.

But keep up the work. Don't let the organization die. Every meeting opens the way for something better in the future. But don't look for perfection, because it is unattainable here among organizations of any kind. Simply do the best you can.

Leaf Spot of Foliage Plants.

When the leaves of a plant, grown particularly for its beautiful foliage, are blighted, from whatever cause, the value of such a specimen quickly disappears.

Leaves are made unsightly in many ways. Insects may eat holes in them and thus sadly disfigure the plant if not entirely ruin it as a thing of beauty. Other and perhaps smaller insects may burrow within the pulp of the leaves and while not making any holes they cause brown irregular lines to appear like the trails of microscopic serpents. These last are not easy to combat for they are within the leaf and not reached by a spray of some arsenical compound.

There is another class of enemies aside from the insects that work within the substance of the leaves and cause them to become blotched and decayed. These are eel-worms or nematodes, which are microscopic worms that breed rapidly in the tissues and feeding upon them cause unsightly patches, if they do not entirely destroy the plant. These eel-worms breed also in the soil and finding their way into the roots cause galls to form and thus diminish the activities of the root system.

Still a third group of enemies to plants consists of the various kinds of fungi. These are minute plants that grow within the substance of the host and destroy it.

The accompanying engraving is from a photograph of a leaf of Anthurium grande, of course much reduced in size, the natural one being fully two feet in length. This leaf was sent to the experiment station because of the dead patches which occupied a considerable part of the otherwise grand blade of the leaf. These brown patches are most abundant midway of the chief veins and near the outside of the leaf. They are caused by the fungi as above stated and upon the leaf shown there were not less than three distinct forms, placed in as many genera. It is not the place here to consider the microscopic differences in detail, the chief point being to call attention to the fact that the brown and unsightly spots are not due to insects, not to nematodes, not to the weather or lack of heat or light, but to a parasitic fungus that preys upon the living substance of the leaf and destroys it. The surroundings may favor or discourage the development of the fungus just as warmth and moisture stimulates any plants to greater growth, but the fungus must come from a germ as surely as a wheat plant must come from a grain of wheat.

The fungi are made up of a multitude of fine threads which run in all directions in the leaf and after a time form pimples for the production of spores. These spores are like seeds in that they can be removed from one place to another, and then if conditions favor will grow into a plant like the one from which it came.

The spread of the trouble may be checked by using some substance that will kill the spores or prevent their germination when in contact with them. Such substances as fungicides are now generally used for the mildews and blights of the grape, apple, pear and other crops of the orchard and vineyard. There is no reason why the grower of foliage plants should not take the same precautions against the destructive attacks of fungous enemies.

It has been seen that the anthurium leaf, out of which all its beauty had gone, was taken as an object text from which to write. The reader while he has read the above lines may have kept the bad example of neglect in sight and perhaps felt sufficiently awakened to the importance of using what light there is for him in keeping his foliage plants free from the blights that spoil the leaves.

BYRON D. HALSTED.
Rutgers College.

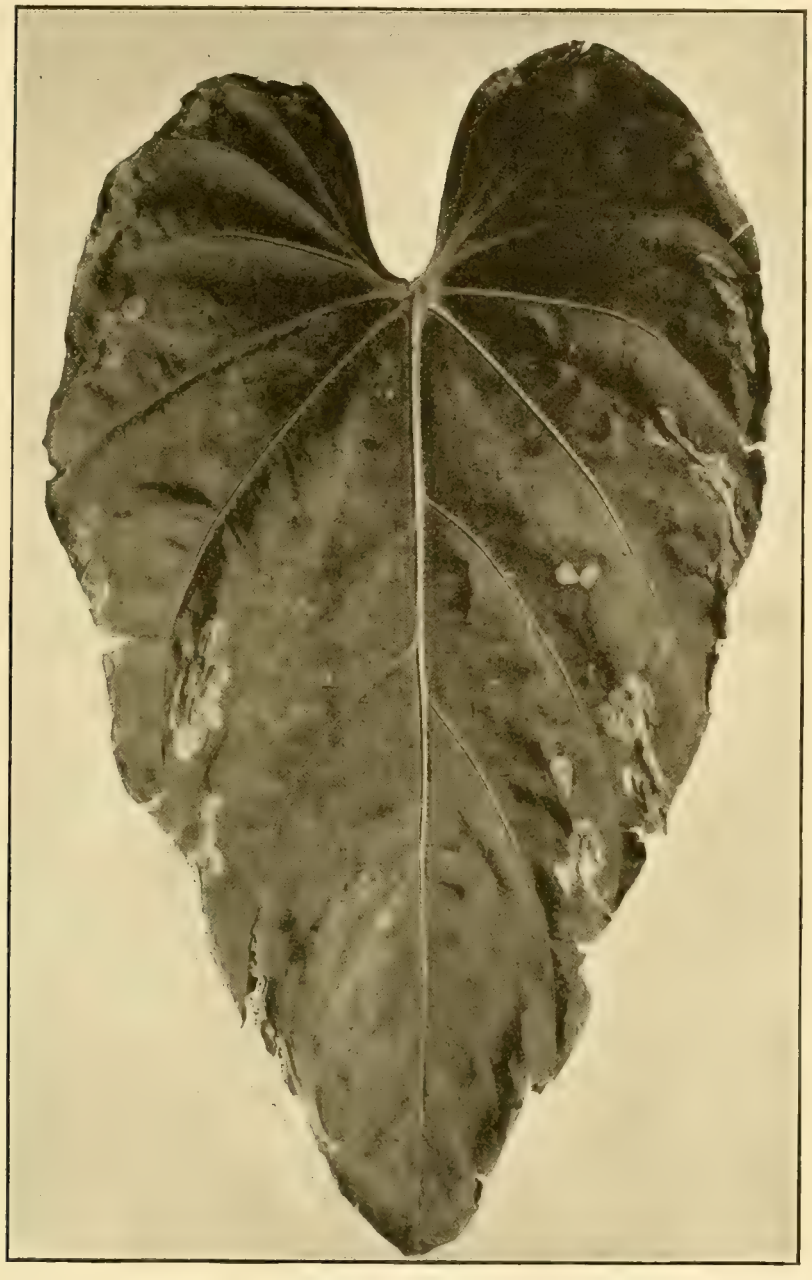
New York.

There is a very general complaint about poor trade for the past week among the cut flower wholesalers. While the retailers do not claim to be very busy yet they do not all admit that it is extremely dull, and probably one main cause of the dullness in the wholesale line is to be found in the overstock of flowers coming in. Most of the rose growers are having heavy cuts at present, and as this is the time of year when roses can not be held over from day to day the street fakirs who can only buy when stock is plenty and prices low get in their fine work. They appreciate the fact that at such times the big overstock can not be unloaded excepting with their help and they make the most of it.

Large roses do not seem to be in great demand. There are a good many of them in the market, some splendid specimens, many very inferior.

American Beauty is still to be seen with 3-foot stems and big foliage, but it is getting decidedly off color as compared with its winter appearance. Lilies and callas are very plenty, lilacs exceedingly poor in quality, lily of the valley scarce and inferior and violets about done. Carnations still sell well if white or pink. Red ones go slowly.

The shipping trade appears to be wound up for the season, an occasional telegraphic order being about the only re-



LEAF OF ANTHURIUM AFFECTED BY LEAF-BLIGHT.

minder that there are buyers outside of the city. The rapid fall in prices has had the usual effect on consignors and they are getting restless, several changes from one commission house to another having taken place within a week.

The resort at 34th street ferry where the flower market is located is not large enough to hold the heaps of stock of all kinds and the crowds of "Greeks" who swarm there looking for bargains, and sometimes part of the trading and bickering has to be done on the sidewalk.

Smilax is still one of the scarcest commodities in the market, there being little on sale, and that of poor quality. Rudolph Asmus, who has a house coming in, says the demand is such that they have to cut it while entirely too small; people must have it. The crop is shortened in some directions by the appearance of that aggravating little worm which caused such havoc a few seasons ago. Mr. Asmus is also growing some fine Jacqs.

Ernst Asmus is sending in handsome Prince Camille de Rohan. It is a rose of remarkable richness, both in color and texture, though hardly so fragrant as the Jacq.

Some very showy hybrid amaryllises are now in the market; it seems as if there should be a big future for these plants in decoration. Empress of India is perhaps the best, it is very large and of extremely firm substance.

Just now the retailers are doing considerable steamer work, either baskets or designs. A good deal of funeral decorating is done in spite of the "Please omit flowers" notices. Speaking of funeral work recently Mr. Hafner commented on the large increase in the use of colored flowers, naming as an example a bunch of Jacq roses, tied with ribbon of corresponding color.

Moss roses and sweet peas are among the seasonable flowers now attracting attention; both very good. Arbutus and buttercups (Caltha palustris) and Mountain laurel are wild flowers noted both in the stores and on the streets. Moss roses arranged simply with their own foliage have been used lately with good effect in dinner decorations.

There has been a big demand for white orchids all through the season and not enough are grown to supply the demand for weddings and funerals. Thorley's windows have been decorated beautifully with orchids, anthuriums and lapagerias. A handsome group of Cattleya Mossiæ among which a black cat lay asleep attracted a great crowd.

A good idea noted in growing decorative palms is to cover the pots with lycopodium. Once started it runs like a weed, covering the soil and hanging over the pot, adding materially to the appearance of the palm, and consequently to its salableness. Costs no more either, for most places have plenty of lycopodium running under the benches.

Ernst Asmus speaks very highly of the new dark carnation Pomona which he has been giving a trial. It is one of Starr's seedlings.

Discussing carnations lately Dailledouze Bros. spoke very hopefully of their new white French variety, Miss Moore, which made its first appearance at one of the club meetings during the winter. Like many Long Island growers, Dailledouze Bros. look on Silver Spray as their best white; it seems to suit them better than Lizzie McGowan; the latter appears first favorite in New Jersey. It is a well established fact among carnation growers that the same variety can not be grown with equal success in every locality.

The house of anthuriums at Pitcher & Manda's is a magnificent sight now. Many grand specimens of the decorative foliaged varieties are to be seen, and the numberless hybrids of the Andreanum and Ferrierense type are showing a great variety in shades of color and in form. The shades run all the way from a delicate pink to deep blood color. Among the novelties seen is a fine plant of Pandanus amaryllifolius, a species with no thorns and of graceful form. From the collector has come a rediscovered cycas, Zamia Lindenii. There is quite a number of the plants and they are beginning to grow rapidly.

At Mr. Hicks Arnold's conservatory in 84th street there is a magnificent show of blooming cypripediums now.

The spring auction sales at Elliott's and Young's are well attended.

Sander's orchid sale on April 29 drew quite a crowd of the boys and was considered by Mr. Dimmock a very satisfactory one for this time of the year. Cattleya labiata found a ready sale at "florists' prices."

An auction sale which attracted attention this week was the collection formerly belonging to John Finn. Mr. Finn was well known as a grower of decorative plants, and also as an exhibitor in the old days of the Madison Square Garden.

There was a nice lot of the hardy rose novelties, R. Wichuraiana and the Dawson hybrid from W. C. Strong. These plants were all in Neponset paper pots and were in every respect vigorous and clean.

A special meeting of the Florists' Club was called for April 29, to make arrangements for their work in connection with the Actors' Fair. The flower booth, or rather floral theater, gives scope for ample decoration, being about 75 feet long; a tall May-pole stands at the back, while in front the roof is supported by handsome turned pillars of white and gold. A

quantity of laurel is used for garlands, and the booth is further decorated by both plants and cut flowers. The trade generally feels very generously towards the theatrical profession, and every one is willing to help.

The meeting was attended by quite a number of the prominent members, and Mr. H. A. Siebrecht, who is chairman of the special committee, made a report of progress and showed some diagrams of the proposed floral booth. He read a list of names of those growers and others who had signified their intention of furnishing plants, etc. Mr. Siebrecht was requested to see that the part taken by the club in the affair be given proper recognition in the daily papers.

The two commission houses, F. D. Hunter and James Purdy, have formed a union under the firm name of Hunter & Purdy, and will locate at 51 West 30th street, where Mr. Hunter has been doing business.

The retail store on Broadway recently occupied by J. G. Bebus is vacant, he having decided to try his fortunes at the wholesale business in partnership with Mr. Patterson at 12 West 27th street.

The plant market at Union Square is gaining strength with the lengthening days and the locality is a busy one every bright morning.

President James Dean, of the Society of American Florists, is mourning the loss of his mother, who died at the residence of her son David at Astoria, on Friday, April 29. Mrs. Dean was advanced in years and has been in failing health for a long time. Mr. Dean will have the hearty sympathy of his many friends in his bereavement. The funeral took place on Monday, May 2.

A son of Mr. Ernst Asmus has been taken suddenly ill with pneumonia.

Mr. W. A. Manda will visit the European trade, sailing from New York May 11.

Philadelphia.

The season has begun to show signs of weakening, still there was quite a good deal of business the past week, wedding decorations forming a large part of the work.

At a house wedding all the prominent palms about the rooms had attached large square bows of different colored ribbons, said to be the latest Parisian idea.

While flowers have been plenty they have found ready sale and prices have not fallen much. La France, Brides, Mermets bring 6 to 8, Perles, Gontiers, Sunsets 4 to 5; Jacks 10 to 15; hybrids and Beauties 20 to 40; carnations 1½ to 2; longiflorums 8 to 10; tulips and daffodils 4; a few extra fine single trumpet major from Harris 6; valley is being pushed up to 5, and 6 is predicted next week; but there will be a drop soon for outside valley will be in before long.

The past season has evidently been a prosperous one, as in every direction one can hear the hammer and saw and the sound of the mason's trowel.

John Burton is erecting three houses, 150x20. These are for his *new* pink American Beauty. He has a fine stock of this variety and many think it will attain as great popularity as its much renowned sister. It has not as yet been named, but we hope to have an invite to the christening which will no doubt be a very interesting event.

Messrs. Meehan, Butler and Meyers, also of Chestnut Hill, are busy with new houses. At Rowlandsville C. F. Evans & Bro. are erecting three houses 25x60 in which to grow roses for summer and early fall. Even in the dull season there is a demand for good roses and to meet this quite a number of houses are being planted. Messrs. Robt. Craig and Jacob Becker have houses planted with Marie Guillot and Duchess of Albany for this trade.

A plant that has always been scarce in this market and that sells well, particularly at Easter, is heather (Erica persoluta), it is beautiful when in full flower and being so compact is nice for table decoration. Quite a number of these plants were bought by Messrs. Harris and Craig from Mr. Dirwanger, of Portland, Maine, who makes a specialty of it. They were stocky little plants and kept in a house almost without fire, were easily brought in for Easter. Although it has been imported from Europe a number of times it has never been a success, always being received in poor condition. Robert Craig thinks there would be a large sale for well grown plants and predicts a great future for it.

Mr. W. Atlee Burpee was married to Miss Simmons, of Philadelphia, at the West Spruce Street Presbyterian Church Saturday, April 30.

Mr. Alex Scott, of Penrose Nurseries, furnished the decorations which were on an elaborate scale. In the alcove back of the pulpit was a pyramid of Easter lilies about 20 feet high; in this group alone there were some 300 pots. Extending from the base of this to the edges of the platform were palms, hydrangeas, azaleas and other plants gracefully arranged, while at the end of the aisle in front of the pulpit was an altar rail of roses and other white flowers. The windows were all banked with plants in flower and the columns twined with laurel and tied with clusters of lilies. There were eight large wagon loads of plants in the decoration which was pronounced the finest ever seen in the church. It was Mr. Scott's present to his friend Mr. Burpee and he spared no effort to make it as handsome as possible.

A short time ago Mr. Burpee was given a dinner by some of his bachelor friends at the Bellevue. He was warmly congratulated and presented by each one with some sort of kitchen utensil accompanied by an appropriate speech. By the time his friends were through he was completely overwhelmed and his stock of housekeeping hardware was truly immense. It was a very enjoyable occasion and will long be remembered by those present.

Cards are out for the wedding of Mr. Chas. F. Evans to Miss A. R. Kenny at West Arch Street Presbyterian Church Thursday evening, May 12.

Things are lively at the alleys now. The new contest inaugurated last Wednesday is exciting great interest. Longinette made 512 in three games, while Westcott and McLean were next highest with 452 and 453. K.

Buffalo.

Usually after a storm a calm is expected and last week's business was less exciting, but by no means bad. The revival of balls, dinner parties and other social events kept the florists busy, more so than last year at this time. Prices were correspondingly good. The remarkable cold weather kept outside stuff—daffodils, tulips, etc., entirely out of the market, and those grown under glass met with a ready sale at good winter prices.

Reports from all quarters confirm my remarks of week before last that the Easter business was very satisfactory with all hands. A fine plant or box of cut flowers is at present the ideal Easter gift and all classes indulge in them. There is, however, a little change needed in some of the plants grown for Easter. The public tire after a while of the same old plants year after year. Of lilies there are about enough grown to meet the demand; of spireas too many. Azaleas sold well and so did hydrangeas. Cytisus does not go as well as formerly; it is a poor house plant. I will not venture to say what the Easter plants of the future will be; bigger lights will do that, but some other plants will have to be brought forward, that is certain.

In interviews with several of the boys I learned the following: That Buxton's violets gave out at the last moment and he was unable to fill several of his orders. Palmer & Son had 16 messengers running steady for 24 hours. Dan Long was well pleased with his business and also well pleased that another Easter will see him out of the hurry and flurry of the retail trade. W. Belsey sold clean out. His greenhouses are as good as a store. Milley wholesaled his stock and could have disposed of much more. He was the lucky smilax man of the week. By the bye, Wm. B. Milley is the only florist here, or in a good many other cities, who can stand on the path and tie up a 10-foot string of smilax. How is that for high? Rebstock did such a business and worked so hard that on Sunday at 5 p. m. he took a Turkish bath, retired to his bachelor apartments and hibernated for three solid days and nights. Laurence & Giddings did well and did some fine church decorations. Adams & Nolan were both much prostrated with overwork, but Adams turned up at the bowling meeting on the following Monday very weak in the flesh but chipper. Christensen was delighted with the business he did, both at the greenhouses and store. The figures he gave me of his week's business crashed on my brain with such a weight that I was not able to retain them. Mepsted, Scott's down town manager and right bower, worked perhaps as hard as any one. He says he worked till 4 a. m. Sunday, then jumped into a carriage, was driven three miles to his home, rushed indoors, took 40 winks, 5 grains of quinine, comforted his wife, entered his carriage and returned to the store a fresh man in less than two hours. The carriage was of course at his employer's expense.

Mr. and Mrs. Charles L. Dole, of Lockport, N. Y., have called on us. They are in good spirits over their Easter trade and say the demand for good plants in their city was great. Mr. Dole is planning to build an addition to his houses.

All kinds of flowers met with a ready sale, but carnations, roses and violets took the lead. Tulips went a little slow. Orchids were offered by several florists, with very little demand, although there has been several good orchid orders since. As there were no absurd high prices asked for any kind of flowers stock of all kinds was entirely cleaned up.

Mr. Peter Crowe, of Utica, made his appearance in town this week and in company with your correspondent visited several of the city greenhouses, and then we started for Lancaster, Erie Co., to call on Mr. W. J. Palmer. We found the veteran superintending his very large establishment. He carried a hoe with him, but it was more as a staff than a weed exterminator that he was using it. Mr. Palmer says that tulips in Buffalo have had their day except in limited quantities. He has thousands of magnificent tulips with no demand for them. He is cutting large quantities of good

roses. La France, Brides and Mermets were looking well, although Mr. P. says what with building a range of new houses and an extraordinary scarcity of water last fall his roses did not receive the attention they should have had. Carnations are grown at this place to perfection and with the exception of Grace Wilder, which is just between crops, all kinds were yielding immense quantities of the finest flowers. The varieties grown are Silver Spray, Portia, Tidal Wave, Harrison, Grace Wilder and Buttercup. The latter fascinated the writer more than any other because they were grown simply to perfection, not a bad flower among them and flowering like old La Purite did 20 years ago. With the exception of some lilies, spiræas and a few such plants to supply the store in the city, the whole of the glass, about 60,000 feet, is devoted to growing flowers for his retail trade. G. S.

Boston.

Everybody is complaining of dull trade this week. The quantity of cut flowers coming in is not so large, but there seem to be no buyers. Roses of the ordinary market varieties sell all the way from $2 to $8 per hundred, according to the variety, the customer, and the occasion. Carnations, strangely enough, seem to hold up in price and feel the depression much less than the roses appear to. Lily of the valley is running short and is in fair demand. Violets of the regular winter variety are done, but the beautiful dark blue Cape Violets, so called, are in and sell well, as they deserve to. Tulips are coming in from outside, hence are cheap and in poor demand. There are some good hybrids about, notably Brunners, which bring from $15 to $25 per hundred. Among the more uncommon things now seen are gladioluses of best quality which bring from $8 to $10 per hundred. Another novelty of the simple kind is the blue-flowered Centaurea (Bachelor's Button or Corn Flower).

The street fakirs are giving their attention principally to the "Plymouth May Flower," and these pretty but cheap little blossoms seem to be the favorites for corsage wear at present.

That old Boston favorite, the rose Souvenir de la Malmaison is beginning to come in in quantity.

The plant auctions have commenced in earnest, and the two rival establishments —Hatch, at 111 Federal street, and McCarthy, at 129 Kingston street, will exercise their lungs and their persuasive powers every Wednesday and Saturday at 10 a. m. in the interests of their consignors until June.

One of the most beautiful customs here at Easter is the distribution of flowers at the various hospitals by the Boston Easter Flower and Music Mission. Over 1500 unfortunates were thus kindly remembered on Easter Sunday morning.

The Fitchburg R. R. Co. has arranged to have the grounds at all passenger stations between Boston and Fitchburg laid out with shrubbery and flowers. The work will be begun at once.

Thos. W. Weathered's Sons have secured the contract for the construction of a range of three greenhouses for stove plants, roses and carnations, for Mr. John P. Spaulding, of Dorchester. Work on the foundations has already begun.

The wife of William Edgar, of Waverly, died May 2, of pneumonia.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Chicago.

Roses, and in fact nearly all stock, is a drug on the market. Late in the day roses have been sold at as low as $15 to $20 a thousand. The quality of the roses suffered greatly during the few hot days we have had, especially La France and Mermets, which are very poor in color. Jacqs are coming in more freely and keep up better in price than most other stock, good flowers bringing from 10 to 12.

Northrup, of La Grange, has been bringing in some good outdoor grown Dutch hyacinths that have sold readily at $5 a hundred, a good price for outdoor flowers. But the bulk of the hyacinths coming in are of poor quality and can be had at from $2 to $3 a hundred.

Klehm and Janes are bringing in sweet peas and the former is cutting some very good flowers.

The fakirs are out in full force, selling roses at 25 cents a dozen. And the fakirs are not all confined to the curb. Some of the storekeepers seem to be competing with the fakir in his own field and have their windows plastered with "cut rate" prices that smack strongly of "Greek."

Trailing arbutus (Mayflower) has been in during the last week. This week will about finish it.

Among recent visitors to the city were Messrs. W. C. Barry, Rochester, Emory E. Smith, San Francisco, Julius A. Schnapp, New York, G. W. Currey, Nashville, Tenn.

A. H. Saxon, gardener for W. H. Rand, will build four houses, each 75x11, at Downer's Grove, and start into the business of raising carnations and violets.

The Florist Club has arranged for a meeting place in Kennicott Bros.' new storeroom, 34 and 36 Randolph street.

Mr. Thorpe was unable to be present at the last meeting of the Florist Club and the essay upon the chrysanthemum was not forthcoming. No business of importance was transacted and an early adjournment was had. At the adjourned session some very curious scores were constructed.

Mr. O. P. Bassett has returned from California much improved in health. He was much impressed with the roses to be seen at Santa Barbara in April.

The tulips are in bloom at the parks but the stems are very short owing to the cold spring.

Changes in business location were numerous May 1. Geo. Klehm has gone back to his old place, 74 State street, Joseph Curran has taken the basement under 175 Wabash ave., and Frank Benthey, who formerly had the main floor at this number, has gone out of business, and it is said he will take a position in the Hort. Department of the World's Fair. The W. D. Allen Floral Co. has moved south on State street, beyond Adams street, the farthest south any florist has yet dared to try it on that street. The old store of this Company at 65 State street, has been taken by a new concern, with the title, "Central Floral Co.," which is under the management of Andrew Miller, who was until lately manager for the former tenants at that number. It is rumored that Mrs. Krick, who preceded the Allen Floral Co. at this number, and who retired from the business when they took possession, is interested in the new concern. It is also reported that John Bohan will go out of business as a wholesaler and that his present location will be taken by M. Olsen.

The Prince Bros., who have a city store on Adams street, will make large additions to their greenhouse plant at Downer's Grove this season.

The international chrysanthemum show is still on the tapis. Several meetings of the executive committee of the Hort. Society have been held during the last week to consider matters in connection with the project, but all the red tape has not yet been broken through. We will certainly have a definite announcement next week.

Geo. W. Miller has sold his place in Lake View to some real estate men who will cut the land up into building lots. Thus another landmark in the trade will disappear. Mr. Miller will build a large new establishment in some suburban town where he can have good shipping facilities. He has sites in view at both Hinsdale and Lake Forest with a leaning toward the first named place. He will still maintain his shipping trade in plants but the larger part of the new establishment will be devoted to cut flowers. In the construction of the new place he proposes to try a very daring experiment. The houses will be similar to the regulation three-quarter span forcing houses, but with the short span to the south instead of the long one as is usual. He is firmly convinced that this arrangement will give better results and proposes to demonstrate the truth of his theories. His idea is to have the glass on the short span at such an angle that the sun's rays will strike it as nearly square as possible during the winter months. He believes that with the south slope at the angle now usual the sun's rays are deflected when that orb hangs low in the horizon in winter and that we get the full benefit only in the summer time when we do not wish it. The outcome of this experiment will certainly be looked forward to with interest by all growers.

Baltimore.

The club met in their new quarters, and very pleasant they are, with convenient desks and seats, electric lights, soft carpets, etc., as the advertisements say. But after a few minutes no one paid any attention to their surroundings, the business on hand proving more interesting.

First of all another batch of passive or associate members were admitted to the club by ballot. Then another gold medal premium for the chrysanthemum show was exhibited, offered by President Fraser for the best chrysanthemum plant, grown by a young man not over 18, in the employ of a florist.

After some little routine business the question box was opened and the first question was a poser, "Will five 2-inch pipes (hot water) heat a span roof house 16 feet wide, to grow roses?" Almost every one present had an idea of his own, and hastened to express it; the question gradually narrowing down to a discussion of the relative merits of large and small pipes for water heating. To settle the matter President Fraser proposed a debate at next meeting and the question for debate was stated: "Resolved, that it is more economical in fitting a house 100x20 feet for heating with hot water to use 2 inch pipe than 4-inch pipe." Mr. Hess being appointed to lead the affirmative, Mr. Ekas the negative.

The next question, "What is best shading for houses in summer?" called out about a dozen opinions among which were, "Naptha and white lead," "Lime and water," "Puddling clay and water," "$^2/_3$ linseed oil and $^1/_3$ turpentine."

After discussing the question, "Do callas pay?" and "Is the present form of flower pots the best?" without coming to any

decision, the club adjourned to the second Monday in May.

Society has had a time of it beginning with "Fasching Thursday" which was Monday this time, the dances which were performed and witnessed by the elite of the city, at the Academy of Music, taking place on Monday night and an extra matinee Tuesday afternoon. Eight thousand dollars were secured for charity and a great lot of flowers were used up to help the florists.

The dedication of the new Oddfellows' Hall brought a great number of visitors to the city on Tuesday, and altogether the week has been a good one with the exception of one day, Friday, which was wet.

The grass is growing, anemones blooming in the fence rows, bedding stuff beginning to sell, and with no more firing and good demand for cut flowers, the heart of the suburban grower is expanding daily. MACK.

The Easter Trade Compared With That of Last Year

LATE REPORTS.

TAUNTON, Mass.—Sales and prices about same. Lilies poor, other flowers about as usual.

SALEM, MASS.—About 40% larger. Bulb stuff not so good. Prices fully up to last year except on candidums. More plants sold. Supply much the same.

ANDOVER, MASS.—Nearly double. Increased call for lilies. Prices about same. The hot weather of early April brought lilies in too early. Other things were good.

NEW HAVEN, CONN.—About the same. More call for carnations and Bon Silene roses. Prices a little lower. More demand for lilies and azaleas in pots. Supply larger.

MARBLEHEAD, MASS.—About same. More call for carnations and roses. Price of carnations higher, about same on other flowers. More call for cut flowers than pot plants. Supply larger and quality better.

BRATTLEBORO, VT.—Increase of about 10%. Greater demand for candidum, roses and carnations. That for Harrisii about same. Prices about same. More call for blooming plants, especially hydrangeas. Supply larger, quality about same.

LOWELL, MASS.—One third larger. Inceeased sales of pinks, less call for set pieces. Retail prices about same. Lilies sold better; hydrangeas were a drug. Supply larger and of better quality. Orders came in later than usual and caused a rush at the last moment.

NEW ORLEANS.—About 30% larger. Loose flowers were more in demand than designs. Prices about same. Short supply of longiflorum and Harrisii, in fact none in this market. Easter becomes more such as in former years. Christmas used to be the day for decorations in churches in this city.

BURLINGTON, VT.—One fourth larger. Less call for Harrisiis. Prices little lower on lilies. More call for potted plants. Supply equal in quantity but better in quality. Five years ago Easter sales were confined to a few churches, now every one must have something in the way of flowers. Many Easter boxes of flowers were sent to friends.

ROCHESTER, N. Y.—Probably 10% larger. Could have sold more but ran out of stock. One florist notes an increase in the call for small hydrangeas and other moderate priced plants and another in the demand for violets. Carnations were also in great demand. Prices generally about same as last year. One notes an increased call for azaleas among plants. Supply was of better quality but short in quantity. The cold freezing weather previous to Easter made dealers cautious about laying in a large stock.

News Notes.

NEWPORT, R. I.—Mr. Carl Jurgens sails May 5 on his annual European trip.

WE ARE NOW in our new quarters, No. 322 Dearborn street, Chicago. Please address mail accordingly.

CANNONSBURG, PA.—Mr. J. D. Jarrett has sold his greenhouses and business to Mr. John Gibbs of Emsworth, Pa.

PATERSON, N. J.—Mr. John R. Johnson, recently foreman at United States Nurseries, has been appointed to take charge of and lay out the Paterson city parks.

DESMOINES, IA.—A very destructive hail storm struck this city during the evening of May 2, and much damage to greenhouses resulted. J. F. Marshall lost about 1000 lights of 10x12 single thick glass. There was a high wind and heavy rain, but no frost.

NEW DORP, STATEN ISLAND.—Jas. Dennis, formerly of Mt. Auburn, Mass., and for many years gardener on the Adams estate at Watertown, Mass., died of erysipelas on April 22. He has recently been employed on the Vanderbilt place here under Robt. Bottomly.

SPRINGFIELD, MASS.—J. E. Taylor, well known as an amateur horticulturist, died on April 21. He was secretary of the Hampden Co. Horticultural Society from 1862 to 1881 and then president until 1891. He was one of the original promoters of that organization and has always been a worker in its interest.

WASHINGTON, D. C.—From information gathered it appears that fully 50 per cent. more flowers were sold than ever before at Easter. Retail prices in the market advanced on Saturday until by noon they were about double what was asked in the morning and some of the stores also took advantage of the situation to increase prices for Bermudas and callas. Everyb dy sold out clean and Sunday and Monday being dull weather days, stuff remained scarce nearly all the week.

The Art Palace at the World's Fair.

Grecian-Ionic in style, the Fine Arts Building is a pure type of the most refined classic architecture. The building is oblong, and is 500 by 320 feet, intersected north, east, south and west by a great nave and transept 100 feet wide and 70 feet high, at the intersection of which is a dome 60 feet in diameter. The building is 125 feet to the top of the dome, which is surmounted by a colossal statue of the type of famous figure Winged Victory. The transept has a clear space through the center of 60 feet, being lighted entirely from above. On either side are galleries 20 feet wide and 24 feet above the floor. The collections of the sculpture are displayed on the main floor of the nave and transept, and on the walls both of the ground floor and of the galleries are ample areas for displaying the paintings and sculptured panels in relief. The corners made by the crossing of the nave and transept are filled with small picture galleries. Around the entire building are galleries 40 feet wide forming a continuous promenade around the classic structure. Between the promenades and naves are the smaller rooms devoted to private collections of paintings and collections of the various art schools. On either side of the main building, and connected with it by handsome corridors, are very large annexes, which are also utilized by various art exhibits. The main building is entered by four great portals, richly ornamented with architectural sculpture, and approached by broad flights of steps. The walls of the loggia of the colonnades are highly decorated with mural paintings, illustrating the history and progress of the arts. The frieze of the exterior walls and the pediments of the principal entrances are ornamented with sculptures and portraits in bas-relief of the masters of ancient art.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

J. C. VAN LINDLEY, Pomona, N. C., president; W. J. PETERS, Troy, O., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; A. R. WHITNEY, Franklin Grove, Ill., treasurer. The seventeenth annual meeting at Atlanta, Ga., June, 1892.

Fungicides and Insecticides.

Bulletin No. 17 of the Hatch Experiment Station of the Mass. Agricultural College has just been issued and contains a large amount of valuable information regarding Fungicides and Insecticides and other matters of great interest to nurserymen. These Bulletins are sent free to all individuals who may request the same. This April number contains eleven fine plates of fruit trees and vines reproduced from photographs. The closing chapter contains so much that is timely that we gladly give it space here:

Summing up the results of the work of the past season, we arrive at the following conclusions: That the apple scab, pear leaf blight and cracking of the fruit, the peach and plum fruit rot, the plum leaf blight, and plum black wart, the grape powdery mildew and black rot, the raspberry anthracnose and the potato leaf blight and rot, may be wholly or largely prevented when the solutions of copper are properly applied. That by the combined use of the Bordeaux mixture and Paris green the above fungi are prevented, the tent caterpillars and canker-worms are killed, and the injury to the apple and pear from the codling moth, and to the plum and peach by the plum curculio, may be largely prevented. That if the spores of the plum wart become established in the tree, the copper solutions do not stop their growth, but that by painting with "kerosine paste" they are destroyed at once. That the peach foliage is very susceptible to injury from copper solutions and that these solutions must be applied at from one-third to one-fourth the strength used upon the apple and pear. That peach buds can be protected by bending the trees over to the ground and covering with some light, thin material. That the amount of copper adhering to apples and grapes, that have been properly sprayed with copper solution, is so small that no injury can possibly occur from their free consumption. That the Siberian crab



THE ART PALACE AT THE WORLD'S FAIR.

apple tree does not make a good stock upon which to graft the varieties of our larger apples. That girdling the grape vine during the season of 1890 in Dr. Fisher's vineyard resulted in a weakened growth and a diminished crop in 1891. That young trees may be protected from injury by mice by painting with Portland cement and Paris green.

OUTLINE OF PLANS FOR USING FUNGICIDES AND INSECTICIDES FOR 1892.

FOR THE APPLE.

Spray for the destruction of the spores of the apple scab, and leaf blight, with sulphate of copper, (Blue Vitriol), one pound to twenty-five gallons of water, or sulpate of iron (Copperas) one pound to two gallons. For the destruction of the tent caterpillar, canker worm and bud moth use the Bordeaux mixture, one-half strength, with Paris green, one pound to 150 gallons, just before the blossoms unfold, and for the same and the codling moth, as soon as the petals have fallen. Make a third application of the Bordeaux mixture and Paris green in about two weeks from the time the petals fall, should there have been heavy rains since the last application; then use the ammoniacal carbonate of copper, one pound to fifty gallons of water, at intervals of from two to four weeks, according to the weather, until the middle of August. We would recommend the trial of sulphate of copper, one pound to 500 and 800 gallons of water, after the middle of June. Should no rain occur after the use of any fungicide or insecticide no further application need be made until it does rain, but if the interval has been long, spraying should immediately follow a heavy rain.

FOR THE PEAR.

For the pear scab, leaf blight and cracking of the fruit, and codling moth, the same treatment should be given as for the apple, except that no Paris green need be used until after the petals have fallen, and only two applications of that need be made. If the pear tree psylla should appear, spray the trees thoroughly with the kerosine emulsion, one part to twenty parts of water.

FOR THE PLUM.

We would advise the same treatment, as given to the apple and the pear, for the plum leaf blight, black wart and the fruit rot. For the plum curculio, use the Bordeaux mixture, one-half strength, with Paris green, one pound to 200 gallons. One application of the ammoniacal carbonate of copper should be made after the middle of August, to prevent the rotting of the fruit and the leaf blight.

FOR THE PEACH.

To destroy the plum curculio, spray with the Bordeaux mixture, one-fourth strength, and Paris green, one pound to 200 gallons. For the fruit rot, spray with the ammoniacal carbonate of copper, one pound to fifty gallons of water. Try the sulphate of copper, one pound to 1000 gallons of water, for the fruit rot.

FOR THE GRAPE.

Spray with the concentrated solution of sulphate of copper every part of the vines and trellis before the buds unfold. Just before the blossom buds unfold, spray with the Bordeaux mixture, one-half strength, with Paris green, one pound to 100 gallons. As soon as the petals have fallen, spray again with the same; then at intervals of about two weeks use the ammoniacal carbonate of copper, one pound to twenty-five gallons. Try the sulphate of copper, one pound to 500 and 800 gallons of water at the same intervals.

FOR RASPBERRY AND BLACKBERRY.

For the anthracnose of the blackcaps, and the yellow rust of the blackberry, use the concentrated solution of sulphate of copper, before the buds open. Then spray with the Bordeaux mixture one-half strength or the ammoniacal carbonate of copper before the blossom buds unfold, and two or three times after the fruit has been gathered, at intervals of two or three weeks. The first disease attacks the canes principally and more attention in spraying should be given to them, than to the leaves.

FOR THE STRAWBERRY.

Spray with the Bordeaux mixture, one-half strength, and Paris green, one pound to 100 gallons, for the leaf blight and the "spotted paria," as soon as growth begins in the spring. Just before the blossoms open use the Bordeaux mixture, same strength, *but no Paris green*. After the fruit has been gathered Paris green and the Bordeaux mixture should be used if the bed or field is to be carried through another season.

FOR THE POTATO.

As soon as the larvæ of the potato beetle begin to appear, spray with the Bordeaux mixture, one-half strength, and Paris green, one pound to 100 gallons. Use the same mixture as often as they appear in sufficient numbers to be injurious. If the weather should be warm and moist, applications should be made at intervals of from one to three weeks after the vines have blossomed, of the Bordeaux mixture, one-half strength, or the ammoniacal carbonate of copper, one pound to fifty gallons of water, even if there are no larvæ present. The sulphate of copper, one pound to 500 gallons, should also be tried on a small scale to test its value.

They Will be Continued.

Mr. Falconer's brief notes on "Early flowering shrubs" under the heading of the "Nursery Trade" in the AMERICAN FLORIST for April 21, give data on the relative order in which, and the date at which, the first flowers open, etc., which I have long wished to obtain. I wish you could induce him to continue these notes throughout the season. They would be extremely valuable to all of us. His list of plants for observation is the best in the north, if not in the whole country. In the height of the season so many kinds bloom simultaneously that no strictly consecutive order can be given. But where they won't follow in single file let them march abreast in the procession. Habit of growth, aspect of foliage, etc., might be noted to give fullness and variety as in the FLORIST article referred to above. WM. MCMILLAN.

Buffalo, N. Y.

THE PROGRAM for the Atlanta convention of the American Association of Nurserymen is now in the hands of the printer and will soon be issued by Secretary Green. We learn that the Georgians are preparing to give the visitors a royal welcome and to show them not only the "New South" in its most attractive garb, but such an exhibition of southern hospitality as they will long remember. They propose further to demonstrate that the climate of Georgia has been much maligned and that the anticipated discomfort from exceedingly hot weather there in June is a myth.

MR. W. C. BARRY, of Ellwanger & Barry, Rochester, visited Chicago this week to arrange for a large exhibit at the World's Fair. Mr. Barry believes that the nursery business this spring will average well with previous seasons. While the "grip" interfered to some extent with sales through agents still the average will show up satisfactorily, the long planting season, owing to the cool spring, assisting materially in lengthening the list of sales.

REPORTS from the vicinity of Boston indicate that wistarias, magnolias and other early blooming shrubs have suffered severely from the recent frosts, in some cases the flower buds being completely destroyed. Small evergreens have also fared badly from the effects of the long dry spell combined with the cold winds.

MR. W. C. STRONG, of Waban, has opened a city office for the transaction of his nursery trade at 57 Bromfield street, Boston.

IF ANY members of the S. A. F. paid money at Toronto for group photos that were not afterward sent to them, they will please advise us of the fact.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED As assistant foreman, by a young man who has been through the mill on one of the largest establishments in the U. S. Address METEOR, care American Florist.

SITUATION WANTED—As foreman; a practical knowledge of roses, carnations, violets and the forcing of bulbs, also decorative and bedding plants; 22 years' experience; good references. State wages, etc. FLORIST, 127 N. Clark St., Chicago.

SITUATION WANTED—By experienced florist and gardener, single, American, age 38, good references if required; understands roses, carnations, bulbs and mum growing; private place preferred. Address H, care American Florist.

SITUATION WANTED As foreman on commercial place by an experienced gardener; have worked at the business the past 16 years, and am competent to fill a first-class position. A good place and salary required. Address Box 10, care American Florist, Chicago.

SITUATION WANTED—By a first-class florist; German, 25 years of age, growing up in the florist business, and has thorough knowledge in growing roses, carnations, cut flowers, propagating palms, general stock and well up in design work. Private place preferred. Good wages wanted. Address A, care American Florist, Chicago.

WANTED Man that understands palms, ferns, etc. Steady place and good wages. Address O. P. BASSETT, Hinsdale, Ill.

WANTED—A first class working florist; fair wages and prompt payment; none but sober men wanted. Address H A L, care American Florist.

WANTED At once, an experienced florist, who thoroughly understands the business; state wages. CRABB & HUNTER, 509 Madison Ave., Grand Rapids, Mich.

WANTED A No. 1 experienced rose grower. Steady position to right party. Address, giving references, wages expected, B. J. MENDENHALL, 1540 4th St., Minneapolis, Minn.

WANTED—A practical florist looking for a good location for business, proof profits over $100 per month, home trade, should address TWIN CITIES, care American Florist.

WANTED A strictly sober and reliable man; must be a good grower of cut flowers of all kinds; a good salesman, and fair knowledge of design work. Apply with references to R, care American Florist, Chicago.

WANTED At once, a steady, sober and reliable single man; must understand the growing of general stock, and be willing to work under instruction. References required. Wages $25 to $35 per month and board. Address WM A BOCK, North Cambridge, Mass.

FOR SALE OR LEASE—Will lease or sell a growing business, with ample grounds and dwelling; greenhouses consist of about 4,000 feet of glass. Address FLORIST, 709 E Broad St., Richmond, Va.

FOR SALE.

Nine greenhouses, containing 16,000 feet, of glass, with 8 lots of land, each 40x175 feet elegant dwelling with 11 rooms; barn, wagons, cart, horse and harnesses. The above property is located in one of the most beautiful western cities, within 5 miles of the city hall, within one square of electric and cable cars; the same will be sold cheap, as the owner is not able to run the same himself. The above houses have only been built 5 years; modernly constructed, 12x18 double thick best quality glass; heated by steam; abundance of water both from wells and cisterns. They are filled with palms, ferns, roses, carnations and bedding plants of all descriptions, and all will go with them. Address J M, care American Florist, Chicago.

FOR SALE.

10 shares "*Florists' Exchange*" stock. Apply to

THOMAS YOUNG, JR.,
20 W. 24th St., NEW YORK.

FOR SALE—Greenhouse Fixtures.

31 Windows several uniform sizes; 18 windows odd sizes; all painted and in good condition; containing about 2,400 feet 8x10 glass. Also water heater and about 850 feet iron pipe with connections and valves. Must be sold to close out business. A splendid opening for a good greenhouse commanding extensive sales of cut flowers and designs.

The above fixtures will be sold cheap, at a single sale or in parcels to suit purchasers. For further information, apply to H. FUND, Executor of Fred Schoibal deceased, Madison, Wis.

PELARGONIUMS.

Extra fine, in bud; stocky 12 inches tall. August struck 6-inch pots. Finest I ever grew

L. J. SMITH, MADISON, WIS.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

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NURSERIES: MENLO PARK, CALIFORNIA.

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TREES, PLANTS, SEEDS, BULBS.

WHOLESALE FLORISTS.

Nos. 427 and 429 Sansome Street, SAN FRANCISCO, CALIFORNIA.

NEW CROZY CANNAS

will make you money **FASTER** than any other plants for the next year. We are headquarters for

	Each.		Each.
Madame Crozy, 3½ feet	$.60	**J. D. Cabos,** 4 feet, purple leaves, clear apricot flower	1.00
Star of '91, 3 feet	.50	**Alice Lefebvre,** 3 feet, cherry	.75
Alphonse Bouvier, grand flower, vermilion	1.50	**Edward Michel,** 3 feet, orange flowers	.35
Childsii, 3½ feet	.20	**Henry de Vilmorin,** 4 ft., red and yellow	.25
Gustave Senneholz, 2½ feet, salmon	.50	**Perfection,** 3 feet, yellow spotted red	.35
Louis de Merode, 3 feet, amaranth	.35	**Maurice Rivoire,** 4 feet, bronze foliage, carmine flowers	.25
M. Lefebvre, 4 ft., leaves veined purple	.35	**Prof. Charguerand,** 3 feet, crimson	.35
Miss S. Hill, 2½ ft., amaranth	.75		
M. Duterail, 2½ ft., saffron	.50		

NEW YORK: 12 Barclay Street. **J. C. VAUGHAN, CHICAGO.**

EASTERN ORDERS PREPAID TO NEW YORK CITY.

GRAND NEW CANNA "VENTURA".

Habit distinct, largest flowers of any sort yet offered. Self color. A beautiful blending of carmine and scarlet. Petals 1¼ to 1½ inches across by 3 inches long, tapering to center of flower and curving gracefully outward. Spikes large; flowers not crowded; foliage handsome dark green with darker line on edge of leaves; height 3½ to 4 feet. Splendid bloomer; vigorous grower.

75 cents each. Special rates for large quantities.

SEND FOR TRADE LIST. Mention this paper

THEODOSIA B. SHEPHERD, Ventura, California.

CANNAS.

ADMIRAL COURBET $2.50 per doz

A variety that is not nearly so well known as it deserves to be. The flowers are nearest to pure yellow of the "Crozy" Cannas. They are beautifully spotted with scarlet.

EMILE LECLERC, yellow, spotted orange, 60c per doz.; $1.00 per 100.

PRESIDENT FAIVRE the very best old variety having dark leaves—flowers are crimson, $1.50 per doz.; $10.00 per 100.

PREMICES DE NICE, is the most effective yellow for beds and massing, $1.00 per doz.; $6 00 per 100; $50.00 per 1000.

Don't delay ordering any longer than you can possibly help.

EDWIN LONSDALE, Florist,

Wyndmoor, near Chestnut Hill. PHILADELPHIA, PA.

CLEMATIS.

Strong heavy plants	doz. $4 00
Lighter, equal to imported	doz. 3.00
ROSES H. P. 2 year, own roots, choice kinds	per 100 10 00
DAHLIAS 50 vars., whole roots, proved sorts	per 100 8.00

SMILAX SEEDLINGS Beautiful stocky plants, for immediate potting, 75 cts per 100; per 1000, $6.00.

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You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

AGERATUM

White and Blue, 50 cts. per 100.

ALTERNANTHERA

P. Major and Aurea Nana, 50c. per 100

HELIOTROPE

White and Purple, 60 cts. per 100.

Rooted cuttings by mail prepaid.

CASH WITH ORDER.

S. O. STREBY,

Lock Box 77. *UPPER SANDUSKY, OHIO.*

GERANIUMS.

	Per 100
2½-inch pots, mixed	$6.00
3-inch pots, mixed	7.00

ALL STRONG PLANTS.

R. C. FRANK, Beardstown, Ill.

Bouvardia Plants

FOR SPRING SETTING.

DAWSONI, white; ELEGANS, salmon pink; PRES. GARFIELD, double pink.

Strong, healthy plants, from 2½-inch pots, ready May 1st, at $4.00 per 100 Cash with order.

SAM'L NICHOLS, Cohasset, Mass.

ROSES.

We offer **below** Roses, from 2-inch pots, at $30.00 per 1000, our selection; and $40.00 your own selection.

Reine Olga Wurtemburgh	Chas. Rovolli
Pride of Washington	Sombreuil
Triumphant	Mme. de Watteville
Etoile de Lyon	Marechal Niel
The Bride	Gloire de Dijon
Mlle. F. Kruger	Lady Washington
Compte de la Barth	Queen's Scarlet
Hermosa	A. D Charles
Malmaison	Louis Phillip
Perle des Jardins	Pink Daily
Waban	Mme. Alf. Carrier
Catherine Mermet	Mlle. Anette Seaut
Marie Guillot	Tennessee Belle
Mlle. Laurette Massimy	Bennett's Seedling
Miss Edith Gifford	Champeny
Bon Silene	

Below sorts we offer at $5.00 per 100, or $45.00 per 1000.

Mme. Laing	Boule de Niege
Perle des Blanches	Glory of Cheshunt
Anna de Diesbach	Boildieu
Paeonia	Louis Van Houtte
Gloire Lyonnaise	Gen. Jacqueminot
Count of Oxford	Magna Charta
Marie Baumann	Mme. Victor Verdier
Coquette des Blanches	Pride of Waltham
Coquette des Alpes	Anton Verdier
Lady Emily Peel	Etc., Etc.

Roses are in fine condition and will give satisfaction. Sample mailed if desired.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

ROSES.

As I must make room I will sell **50,000** of the best greenhouse and bedding Roses, in perfect condition; fine young plants from 2 and 2½-inch pots, at **$30 per 1000.**

The following varieties to select from:

Queens Scarlet	Souv. de Victor Hugo
Clotilde Soupert	Paquerette
Papa Gontier	Souv. de Wootton
Safrano	Marie Van Houtte
Niphetos	Pierre Guillot
Solfaterre	Perle d'Or
Mignonette	Geo. Pernet
Catherine Merment	Etoile de Lyon
Gloire de Dijon	Luciole
Mlle. Frances Kruger	Bon Silene
Marie Guillot	White Bon Silene
Mme. Lambert	Hermosa
Mme. Jos. Schwartz	Comtesse de Labarthe
Mme. Scipion Cochet	Comtesse Riza du Parc
La France	

Also the following Hybrids at **$40 per 1000:**

Anna de Diesbach	Magna Charta
Giant des Battles	Alfred Colomb
Coquette des Blanches	Ulrich Brunner]
Queen of Queens	Dr. Hogg
Mme. Masson	Paul Neyron

I also have large plants of the above and other varieties in bud and bloom, in 4, 5 and 6-inch pots, at from $15.00 to $25.00 per 100.

The best and newest of Chrysanthemums, Carnations, and general greenhouse stock.

Safe arrival guaranteed of all plants shipped by Express.

Trade List mailed on application.

JACOB SCHULZ, Louisville, Ky.

ROSES.

From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and Duchess of Albany, at $5.00 per 100; Meteor, at $6.00 per 100; American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

CHRYSANTHEMUMS,
leading varieties, 2½-inch pots, $5 per 100.

We are headquarters for the Meteor and Climbing Perle des Jardins.

ALL FINE HEALTHY STOCK.

JOHN HENDERSON CO.,
Flushing, N. Y.

Mention American Florist.

ROSES.

The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100, Waban, $6 00; Duchess of Albany, and Meteor, $5.00 per 100; La France, Bride, Sunset, $5.00 per 100; Perle, Mermet, $4 50; Bennett, $8 00 per 100.

Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

C. A. SMITH FLORAL CO.,
77 South Seventh St. Minneapolis, Minn.

My old time Specialty, the Rose MME. CUSIN, per 100 plants, $5.50.

Also THE BRIDE.....per 100 $5.50
MME. WATTEVILLE, " 5.50
THE WABAN.....per 100 $ 8.00
AMERICAN BEAUTY..... " 10.00

Also **BRIDESMAID,** SUPPLY LIMITED.

From 2-inch pots:
12 plants.... $ 9 00
50 plants.... 25.00
100 plants.... 40.00

"This is the most beautiful pink rose known."
John N. May.
M. A. Hunt.

From 3½-inch pots.
1 plant.... $ 1.50
12 plants.... 15.00
25 plants.... 25 00

SUNNYWOODS GREENHOUSES. **FRANK L. MOORE, Chatham, New Jersey.**

ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

FRANCES B. HAYES, HYBRID BOURBON. **AND OAKMONT,** HYBRID REMONTANT.

Extra fine Selected Stock for the Trade.

JOHN N. MAY, Summit, N. J.

WABAN ROSE.

Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

WABAN ROSE CONSERVATORIES,
Edmund M. Wood & Co., NATICK, MASS.

Forcing Roses.

All the leading varieties—Beauty, Guillot, Bride, Mermet, Perle, and others now ready for shifting. You will find it to your advantage to plant nothing but carefully selected stock.

Send for list before placing your order. **M. A. HUNT, TERRE HAUTE, IND.**

ROSES.

100,000 Roses for florists' planting, strong, healthy plants of the leading varieties for forcing. Per 100, out of 2½-in. 3-in. 4-in.

PERLE, SUNSET, WABAN, LA FRANCE.....$ 6 00 $12.00 $15.00
MERMETS, BRIDES, NIPHETOS, PAPA GONTIER, MME. CUSIN, MME. WATTEVILLE, MME. HOSTE and GEN. JACQUEMINOT... 5 00 9 00 12 00

20,000 CHRYSANTHEMUMS, 100 varieties, including Novelties of '92, and the best standard sorts. Send for catalogue.

A. N. PIERSON, Cromwell, Conn.

ROSES.

MERMET, BRIDE, NIPHETOS.....2-inch, $3.50 per 100; 3-inch, $7.00 per 100
LA FRANCE, ALBANY.....2-inch, $4 00 per 100; 3-inch $8.00 per 100

VERBENAS. MAMMOTH STRAIN, 2-inch pots.....$20.00 per 100; $2 50 per 100
" " Rooted Cuttings.....$8 00 per 1000; $1 00 per 100

COLEUS, ALTERNANTHERA, ALYSSUM, CENTAUREA.....$2.50 per 100
MOON VINES and MANETTIA BICOLOR.....$1.00 per 100

JOSEPH HEINL, Jacksonville, Ill.

ROSES.

We have the finest plants and largest assortment in 2½-in. pots ever in the northwest.

	Per 100		Per 100
Waban	$6 00	Niphetos	$ 6 00
Mme. de Watteville	6.00	Sunset	6.00
Wootton	6.00	Bride	6 00
Meteor	6 00	Perle	6 00
Mme. Hoste	6.00	La France	6 00
Mermet	6.00	Am. Beauty	10.00
Duchess of Albany	6.00	Mrs. J. Laing	10.00

Also a large stock of VERBENAS, at $4.00 per 100.

R. J. MENDENHALL,
MINNEAPOLIS, MINN.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES NEW ADVERTISEMENT. ROSES

La France, Sunset, Perle, 2½-inch, $4 50 per 100; 3-inch, $6.00 per 100.
Brides, Mermets, 2½-inch, $4.50 per 100.
Marie Guillot, M. Niel, $2½-inch, $4 00 per 100.
Hermosa, 2½-inch, $4 00; 4-inch, $8 00 per 100.
10,000 Everblooming Tea Roses, 2½-inch, $4 00 per 100
5,000 Hardy English Ivy, 2½-inch, $4.00; 4-inch, $8 00 per 100.
3,000 Strong Ampelopsis Veitchii, 5-inch pots, 30 inches high, nicely branched $12 00 per 100.

La Roche & Stahl,
13th & Chestnut Sts., PHILADELPHIA.
GREENHOUSES, COLLINGDALE, PA.

Roses. Orchids.

Mermets, Brides, and Mme. Hoste, strong plants from 2-inch pots, ready to shift into 3-inch, $4.00 per 100.

Send Stamp for Special Orchid Bargains.

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GERMANTOWN, PHILADELPHIA, PA.

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Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

IF you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

THROUGH some oversight the Sherwood Hall Nursery Co. (Timothy Hopkins) was omitted from our California directory list. They should be added to the San Francisco list with the address 427 and 429 Sansome street. Also at Menlo Park, California.

Mr. Geo. W. Caldwell, "the woodsman," of Evergreen, Ala. became a Benedict April 17. The bride was Mrs. Fannie A. Snead, from an old Alabama family.

THE FLORIST now has one of the finest arranged and appointed trade paper publication offices in the country. The new address is 322 Dearborn street, Chicago.

ROSE PLANTS.

All the Standard Varieties, best for forcing. Strong, healthy plants in 2-inch and 3-inch pots propagated and raised from best wood. Price list sent on application.

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GEO. W. MILLER,
WHOLESALE * FLORIST,
1748 N. Halsted Street,
Chicago, Ill.

ROSES AND PALMS A SPECIALTY.

To the readers of the AMERICAN FLORIST:
By acknowledging that you saw this in the AMERICAN FLORIST I will for the next two weeks from the date of this paper, send you for $5.00, 1000 Rooted Coleus Cuttings of at least 25 kinds; the selection of sorts to remain with us. No cull stock. Cash with order.
I. F. FELTHOUSEN, Florist Schenectady, N. Y.

CYCAS LEAVES,
Fresh, $1.00 each.
J. C. VAUGHAN, BOX 688, CHICAGO.

SPECIAL OFFER. Per 100
Var. Rose Geraniums, 2½ inch $5 00
Begonia Manicata aurea, 2½-inch 10 00
Begonia Rex, assorted 4 00
Bouvardia Elegans and Davisonii, root cuttings from flats 1 00
JOS. E. BONSALL & SON, Salem, O.

HUNTER & PURDY,
WHOLESALE DEALERS IN
Cut Flowers,
51 W. 30th Street, NEW YORK.

FRANK D. HUNTER. **JAMES PURDY,**
Formerly 112 W. 40th Street.

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Supply the trade with all
FLORISTS GOODS,
Seeds, Bulbs, Imported Plants, Supplies, Etc., Etc. For prices examine Wholesale Catalogue.
Address with business card,
136 & 138 West 24th Street,
STATION E. NEW YORK.
Mention American Florist.

SURPLUS STOCK.

	100	1000
Cinnamon Vine small, 1 year, by mail	$1 50	$10.00
Hyacinthus Candicans, 2 years	1.00	8.00
" " 1 year, will mostly flower, by mail	.50	4.00
Canna Noutoni, started	4.00	
" Emile Leclerc, dormant	2 00	15.00
" Fine mixed sorts, "	1.00	8 00
Cooperia Pedunculata flowering bulbs	3.00	
Dahlias, fine mixed, divided roots	1.50	12 00
Madeira Vine, fair sized tubers (100 by mail, 60c.)	.50	3.00
Tritoma Uvaria	3 00	
Achillea "The Pearl", pots	2.00	
Sage, Holt's Mammoth, pots	3.00	

Catalpa Speciosa Seed, (sow May 10th to 25th), 1 lb. 50 cts.; 10 lbs. $4.00.
Catalpa Speciosa Seedlings, 6 to 10 inches 1.00
Russian Mulberry Seedlings, 6 to 10 inches 1.00
E. Y. TEAS, IRVINGTON, IND.

TRY **DREER'S GARDEN SEEDS**
Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.
HENRY A. DREER, Philadelphia
Mention American Florist

GRINUM AMERICANUM.
As the water is now down we are able to furnish unusually fine bulbs of this beautiful white native Crinum. Large bulbs bloom at intervals throughout the season. Extra selected bulbs, $5 00 per 100; $40 00 per 1000. Second size, $2.50 per 100; $20 00 per 1000. American Treatea, $5.00 per 1000; $1 00 per 100 by mail, postpaid.
Write for price list of Amaryllis, Crinums and Pancratiums for next season's delivery.
THE BROOKS SISTERS, Sorrento, Fla.

BOUVARDIAS,	$4.00
VERBENAS,	3.00
HYDRANGEAS,	5.00

DRACÆNAS Indivisa, Latania Borbonica.
WILLIAM A. BOCK, North Cambridge, Mass.

FOR SALE.
APPLE GERANIUM PLANTS.
We have a large stock of young plants of Apple Geranium in 1 and 2-inch pots. They can be had for the next three weeks at $5 00 per 100. Address
BROTHERS' INDUSTRIAL GARDENS,
MOBILE, ALA.

FRESH IMPORTATION
JUST ARRIVED.
CYCAS REVOLUTA (dry stems), PALMS, Laurels (Bay trees) and foliage plants.
Wholesale catalogue of bulbs now ready.
Write to F. W. O. SCHMITZ & CO.,
Box 29. JERSEY CITY, N. J.

OUR CUT FLOWER BUSINESS
Demands all our growing capacity, we have therefore decided to close out our entire stock of plants this season. We start the ball rolling with the following. Speak quick if you want them:

	Per 100
Dahlias, single tubers	$ 3.00
Tuberous Begonias, from the finest European collections	5 00
Clematis, pot grown, 8 inch pots	40.00
Hydrangea Thos Hogg, we have a lot in the right condition for Decoration day, 6 inch,	20.00
Rose, American Beauty, splendid clean young stock	8.00
Fuchsias, all the standard sorts ready for spring sales, 4-inch	8.00
Washingtonia Robusta, this is a splendid easily and rapid growing palm, it takes but a short time to make a good specimen. Should be in every greenhouse. We have a large lot of it in 4-inch pots, and in order to reduce stock will sell a quantity at	20.00
Latania Borbonica, we also have more of this elegant palm than we need and will sell a few 5 and 6-in. stuff in fine condition	100 00
Chamærops Humilis, will sell a quantity of those for a short time, 4 inch stock.	15.00
Marguerites, large flowering white, bushes 2½ to 3½ feet high	15 00
Carnations, 5-inch, in bloom	15.00
Callas, 5-inch pots	9.00
" 6-inch pots	11 00
" 8-inch pots	15 00
" strong clumps from bed, not divided	25 00

Chrysanthemums. We have a large stock of the select varieties that are most desirable for the commercial florist. Give us a list of what you want in Chrysanths and let us make you a price on it.

Cut Flowers.
For the balance of this month we offer

ROSES—Brides and Mermets	3 00
" La France	5.00
" American Beauty	8.00
Carnations—Garfield, long	1.50
" Garfield, short	1.00
" Hinze's White, long	1.50
" Hinze's White, short	1.00

Bear in mind this stock is all grown on the place and handled but once. Cut flower buyers know the importance of this. Stock guaranteed A1. No charge for packing.

Vases in Iron, Rustic, etc., best makes, will sell for a song to close out. Window Boxes, we still have a quantity left if you want any this is the chance of a lifetime. Price 1c. per lineal inch in length.

ADIANTUM CAPILLUS VENERIS—The coming Adiantum for the cut flower trade. The reasons why because it is
Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.
Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.
Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.
In buying see that you get the true variety, as it has many aliases. If you are short of room now we will book your order and ship any time up to May 15th. **Price, strong plants, $8.00 per 100.**

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BAY CITY, MICH.

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Spider Lilies, Cut Ferns, Cut Flowers, Native Plants of all kinds. Low prices.
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If you do not receive our regular monthly price-list write for same
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All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

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4TH & WALNUT STREETS,
Cincinnati, O.

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The Pioneer Florist of the Northwest.
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CUT FLOWERS IN SEASON,
At Retail and Wholesale
And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist. Send for Catalogue.
R. J. MENDENHALL,
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TRAILING ARBUTUS.
WE ARE HEADQUARTERS FOR THIS BEAUTIFUL WILD FLOWER.
WIRE your orders early so we can "rush" them as they come in from the woods.
WISCONSIN FLOWER EXCHANGE,
131 Mason Street, MILWAUKEE, WIS.

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INVISIBLE BOUQUET PIN
75 CENTS PER GROSS.
INDISPENSABLE TO THE RETAIL FLORIST.
Send for my Primer, free.
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The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Wholesale Markets.

Cut Flowers

BOSTON, May 3.

Roses, Gontier, Niphetos	2.00@ 3.00
" Perle, Sunset	3.00@ 5 00
" Mermets, Brides	6 00@ 8 00
" Malmaison, Wootton	3.00@ 5.00
" Jacqs	8.00@10 00
" Hybrids	15 00@25 00
Carnations	2.00@ 3 00
Violets	75
Valley, Daffodils	4.00
Narcissus, single	2 00
Tulips	2.00@ 3 00
Gladioluses	8 00@10 00
Harrisii lilies	6 00@ 8.00
Candidums	2 00@ 4 00
Astilbe	2.00@ 3.00
Stocks	2.00
Smilax	15 00@20 00
Adiantum	1.00@ 1 50
Asparagus	50.00

NEW YORK, May 3.

Roses, Bon Silene	1.00
" Gontiers	2 00
" Perle, Niphetos, Sunset	2 00@ 3 00
" Mermet, Bride	2 00@ 4 00
" Bennett	2.00@ 4.00
" Cusin, Watteville	2.00@ 4.00
" Hoste	2.00@ 5 00
" La France	3 00@ 5.00
" Albany	5.00@ 6 00
" Beauties	15.00@35.00
" Jacqs	6 00@10 00
" Brunner, Baroness, Neyron, Christy	50.00
" Moss per dozen	4 00
" Diesbach	25 00
Smilax	20 00@25 00
Carnations, long	2 00
Mignonette	1.00@ 2 00
Romans, Narcissus	3 00@ 4.00
Valley	3.00
Tulips	2.00@ 3.00
Harrisii	2.00@ 5 00
Violets	.50
Adiantums	1.00
Lilac, per bunch	50

PHILADELPHIA, May 3.

Roses, Brunners	40.00
" Baroness	50.00
" Laings, Magnas	30.00
" Beauties	25.00@30 00
" La France, Albany	6 00
" Mermets, Brides	6.00
" Jacqs	12.00@15.00
" Cusins, Watteville	4 00@ 5 00
" Perles, Niphetos, Gontiers	3 00@ 4 00
Valley	4 00@ 6.00
Carnations	1 50@ 2 00
Sweet peas	2.00
Daffodils	2 00@ 5 00
Tulips	2.00@ 5.00
Harrisii	5.00@ 6.00
Daisies	.50
Smilax	25 00
Adiantums	1.00@ 1.50

CHICAGO, May 3.

Roses, Perle, Niphetos, Gontier	3.00@ 5 00
" Bon Silenes	3 00
" Mermets, La France, Hoste	4 00@ 5.00
" Bennetts, Dukes, Woottons	4.00@ 6 00
" Albany, Bride	5.00@ 6 00
" Am. Beauties	10.00@25 00
" Jacq	10.00@15 00
Carnations, long	1.00@ 1.50
" short	.75@ 1 00
" long fancy	2.50
Romans, Tulips, Narcissus	3 00@ 4.00
Valley	3 00@ 5 00
Callas	6 00@ 9 00
Harrisii	10.00@12 50
Violets	.75@ 1.00
Adiantums	1 00
Smilax	20 00@25 00

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Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
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Wholesale Florists
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We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

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WHOLESALE DEALERS IN AND SHIPPERS OF
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34 W. 29TH ST., NEW YORK.
SUCCESSFUL SHIPPING OUR SPECIALTY.

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FLORIST,
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Roses Shipped to all Points. Price list on application.

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The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.

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FLORISTS
1122 PINE STREET
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A complete line of Wire Designs.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
A 1 IVY LEAVES.
BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

How Shall We Advertise Seeds?

Doubtless the majority of advertisers who have an extended experience feel, as we do, incompetent to formulate any definite plan that will be really useful to others. The values of mediums are continually changing, while methods that were successful in the past fail to bring adequate results in the present. With the changed conditions of to-day and the increased competition in the mail seed business, we no longer expect to obtain direct results from display advertising as we did formerly.

Ten years ago nearly all our expenditure in newspaper advertising was devoted either to offering collections of seed or "booming" rare novelties; one of our most notable successes in this line was the Cuban Queen Watermelon, which we advertised very prominently in 1881 and 1882, and from which the direct results showed a good profit, but it must be considered that at that time no new watermelon had been introduced for many years and such a variety was indeed a novelty. Since then many new varieties, not only of melons, but of all other vegetables, have been introduced, consequently "novelties" have, in a measure, lost their attractiveness. Fifteen years ago, when we first advertised a special introduction collection of seeds, our advertisements were productive of most excellent results, as many as sixty thousand collections having been sold in a season. Since then this plan of advertising has been so generally copied that it is no longer effective.

Anyone glancing at the magazines and papers of ten to fifteen years ago, and comparing the limited space occupied by seed advertisements in comparison with the columns and pages now carried by the same journals, will see how unreasonable it is to expect corresponding results. In the meanwhile, by the continued issue of ever improving seed catalogues, the rural public have been so educated that they are not only able but desirous of making their own selection of seeds for their special requirements, and the "ready made" collections do not appeal to them as formerly.

While our business has been largely built up upon newspaper advertising, our honest opinion is that now it is impossible, as in some years past, to trace any direct profit from new customers procured from our annual advertising. By this we mean not only in direct returns, but also in the orders which these new applicants send from the catalogues,—and these we are largely enabled to trace by means of a distinctive order sheet. And yet we would by no means entertain the thought of discontinuing, or even of reducing, our advertising, as in its cumulative effects and indirect influence we regard it as essential to the continued success of our business. We are firm believers in the moral influence of persistent newspaper advertising; by the time our advertisement appears in January, we have already mailed to our own lists several hundred thousand of our spring catalogues. Now the effectiveness and continued life of these catalogues in the homes of the recipients is, to our mind, largely influenced by the continued appearance of our advertisements in the religious and home journals. Of course these customers do not mention any paper in writing, but we would prefer that some other house than our own should try the experiment of omitting advertising for one season and testing the results.

One other point in advertising seeds for a mail business, and a very important one, is the judicious distribution of seed catalogues. Every advertiser of "something for nothing" knows the existence of a very large class of postal card friends who write for every handsome catalogue published. Several of our competitors in the seed business overcome this waste distribution by charging for their catalogues, but this plan has never appealed to us from the fact that it puts the sender to such trouble. The plan which we have adopted for several years past, and which we purpose to pursue again this season, is to have our advertisements carefully worded, dwelling upon the quality of the seed rather than the excellence of the catalogue, then offering the catalogue free *to intending purchasers*. This plan, while not productive of the excessive number of replies which would be obtained from enlarging upon the beautiful catalogue, colored plates, hundreds of illustrations, etc., brings a much better class.

We further guard the circulation of our catalogue in many advertisements by the statement that while free to intending purchasers, others desiring the book for information should enclose ten cents, which is less than actual cost of publication.

From careful records kept for several years of advertising in this manner, we find the average cost of returns twenty-two cents per applicant.—*W. Atlee Burpee in Publicity.*

R. T. KNAPP succeeds Fred. O. Smith in the seed business at Norwalk, O.

MR. J. C. VAUGHAN, Chicago, has opened an eastern branch at 12 Barclay street, New York.

VISITED CHICAGO: F. Howcroft, London; H. W. Buckbee, Rockford, Ill.; J. E. Northrup, Minneapolis; Albert McCullough, Cincinnati.

MR. W. ATLEE BURPEE and Miss Simmons were married at the West Spruce Street Presbyterian Church, Philadelphia, Saturday, April 30.

MR. EDWARDS ELY, well known for many years as a seedsman, in Newark, N. J., died on April 22 aged 67 years. His specialty was the market garden trade. His son, Frederick, will carry on the business.

FROM this date please address all mail for the FLORIST to 322 Dearborn street, Chicago.

OFFERS

Will be received for about **100,000 Harrisii Bulbs**, all sizes; being balance for sale this season.

The undersigned is the only large grower in Bermuda with pure and unmixed stock.

No Flowers are ever shipped.

GEO. W. WEST, Shelly Bay, Bermuda.

DUTCH BULBS.

JOHN BARTH BOS,

OVERVEEN, near Haarlem, HOLLAND.

ESTABLISHED 1818.

Large grower of Hyacinths, Tulips, Narcissus, Crocus, Lilies, etc.

Before ordering bulbs, write me for a catalogue.

UNITED STATES NURSERIES'

IMPORT

BULB,

PLANT AND SEED SHEET

WILL BE MAILED NEXT WEEK to all florists, dealers and seedsmen in the United States and Canada; should any FLORIST reader not receive one and will write us, enclosing his business card, he will receive one by return mail. Below we mention a few of its **special attractions, and DEFY COMPETITION:**

LILIUM HARRISII,

OUR UNEQUALLED LARGE SIZES: 6-7 8-9 10-11

Other Dealers' Sizes: 5—7 7—9 9—11

Note difference in Size of Bulbs. Ours contain no small bulbs whatever, whereas those usually sold contain at least 50% of the smallest size that we exclude altogether.

Roman Hyacinths,

13 to 15 centimeters (5⅛ to 5⅞ inches) in circumference.

Von Sion Narcissus Our Specialty.

PAPER WHITE NARCISSUS,

LILY OF THE VALLEY,

Three year old, sand-grown, Berlin Pips.

TULIPS for forcing, HYACINTHS for forcing and bedding, AZALEAS, PALM SEEDS, SEED CONTRACTS, CYCLAMEN SEEDS, and ASPARAGUS PLUMOSUS.

PITCHER & MANDA,

SHORT HILLS, N. J.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN. CONN.

To Seed Growers.

I want to contract with reliable growers for flower and vegetable seeds, and tuberose and other bulbs. Write, mentioning your specialties.

F. N. PERKINS, Kenton, O.

BULBS. BULBS.

We book orders now for

Lilium Auratum, Speciosum Album, Speciosum Rubrum, Longiflorum, etc., Chinese Narcissus and CALLA BULBS.

Cycas revoluta, fine imported stems, 10 cents per lb. Araucarias and Australian Palm Seeds.

Send for Catalogue. *FELIX GONZALEZ & CO.,*

303 to 312 Wayne St., San Francisco, Cal.

C. G. VAN TUBERGEN, Jr.,

HAARLEM, HOLLAND,

Grower and cultivator of choice Dutch Bulbs, Hyacinths, Tulips, etc., etc.; also of various bulbous plants, guaranteed true to name. Beautiful and attractive for gardens and conservatories. Orders solicited. Catalogues free on application to his agents,

C. C. ABEL & CO., P. O. Box 920, New York.

Daffodils. Daffodils. Daffodils.

Nothing can be more simply mentioned through the AMERICAN FLORIST than a statement that Wm. Baylor Hartland, Cork Ireland, can supply direct via Liverpool, Daffodil Bulbs prepared for forcing purposes in the States. References to some of the largest buyers on application, and bulb delivery guaranteed in August. A preliminary offer for Von Sion, &c., post free. Packing, etc. on the most approved method for a long journey.

WM. BAYLOR HARTLAND, Ard-Caires, Cork, Ireland.

FORCING BULBS,

HYACINTHS, TULIPS, DAFFODILS,

AND ALL OTHER BULBS FOR FORCING AND OUTDOOR, IN VERY FINE QUALITY, AT REASONABLE RATES.

If any of our friends have not received a copy of our Catalogue of 1892, should write for one at once.

Please ORDER ON RECEIPT of our Catalogue.

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, HOLLAND.



WE can give you the inside track on forcing bulbs, both in quality and price. Write us at once. Special Wholesale Price List now ready. Don't fool with poor stock. Get your supplies from us.

J. GARDINER & CO.

BULB GROWERS AND IMPORTERS,

PHILADELPHIA, PA.



BULBS.

Closest IMPORT rates f. o. b New York City can be had from our N. Y. office, 12 Barclay St. We request the opportunity of estimating for shipment from New York.

J. C. VAUGHAN,

And 12 Barclay Street, NEW YORK. CHICAGO.

Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS,

AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

H. H. BERGER & CO.

ESTABLISHED 1878 SAN FRANCISCO, CAL.

ROMAN HYACINTHS, PAPER WHITES,

Lilium Harrisii, Berlin Pips Lily Valley, Tuberoses, Azalea Indica, etc.

PRICES QUOTED and ORDERS BOOKED FOR SUMMER AND FALL DELIVERY.

C. H. JOOSTEN, Importer,

3 COENTIES SLIP. NEW YORK.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

LILIUM HARRISII, ETC.

We are now booking orders at the following low prices:

	Per 100	Per 1000	Per 10,000	Per 50,000
LILIUM HARRISII, 4 to 5 inches circum	$ 2 50	$19 00	$17 00	$16 00
" 5 to 7 " "	3.25	25 00	24 00	22 00
" 7 to 9 " "	5.50	48 00	47.00	46 00
" 9 to 11 " "	10 00	90.00		
Guaranteed full measurement.				
LILIUM LONGIFLORUM, Bermuda grown, at same rates.			Per 1000	Per 1000
" CANDIDUM, fl. simples, st ong.	3 50	25 00		
ROMAN HYACINTHS, white, 4 inches circum	2 00	13.00	12.00	11 00
" " white, 4½ to 5½	3 00	20 00	19 00	18 00
" " white, 5 to 6	3 50	25 00	24 00	23 00
DOUBLE ROSY, rosy, tendre selected	2 50	16 00	15.00	
ITALIAN, blush white, selected	2 75	19 00	18 00	
BLUE ROMAN, selected	2 75	18 00		
TOTUS ALBUS (Paper White) Narcissus, selected	1.25	7 00	6 50	
" " gr. fl. Narcissus selected	2 00	12 00	11.00	
DOUBLE ROMAN NARCISSUS, selected	1.50	10.00		
FREESIA REFRACTA ALBA, selected	1.25	8.00	7.50	
ORNITHOGALUM ARABICUM, selected	2.50	20 00		
TRUE BERLIN VALLEY PIPS		9 00	8.00	7 50

Half quantities at same rates.

HULSEBOSCH BROS., Bulb and Plant Growers,

OVERVEEN, near Haarlem, HOLLAND.

Address for the U. S., A. HULSEBOSCH, P. O. Box 3118. NEW YORK CITY.

R. VAN DER SCHOOT & SON,

HILLEGOM, - HOLLAND,

Largest Growers of

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.

HEADQUARTERS FOR HIGH GRADE FORCING BULBS.

Wholesale Importers should write us for Prices.

OUR NEW TRADE LIST NOW READY.

IMPORT PRICES NOW READY.

HARRISII, ROMANS, FREESIAS, VON SIONS, VALLEYS, ETC.

W. W. BARNARD & CO.

6 and 8 North Clark Street, CHICAGO.

St. Louis.

A week of sunshine has given all classes of flowers good color, and put it in the hearts of the people to buy flowers. The supply and demand are about equal, and prices hold good. The plant trade is now very brisk.

Mr. Tesson is building another rose house of the same dimensions as the one in which he has been growing such fine roses, but none of the roses from this house will get outside of the city. They will all be wanted here.

Two orchids are now in bloom at the Missouri Botanical Garden. Cypripedium pubescens in the bog and Calypso borealis in the wild garden. The latter is an especially interesting little plant.

Mr. James W. Dunford, who has been the St. Louis correspondent of the AMERICAN FLORIST, has resigned his position as assistant head gardener at the Missouri Botanical Garden, and has gone to Elgin, Ill., where he will lay out the grounds of the North Western Insane Asylum.

Prof. Trelease, who is now in California studying the Yucca, has sent the Garden some rare plants, among them Yucca Whipplei and Opuntia basilaris. J. C. D.

"How They do It in England"

With the above comment a reader sends us the following advertisement clipped from an English horticultural paper:

IF you look through my advertisements and send even a 1s 3d order it will be a help to me and you won't miss the amount. In these hard times have little to depend upon for a living, hence my asking your patronage.—W. M. REAMSBOTTOM, Geashill, King's Co.

This appeal must have brought a host of orders.

For Spring Potting.

The best time to pot off small Palms and Foliage Plants is NOW, and they will then be ready to fill houses with for summer, after bedding plants are cleared. Cheap plants as follows:

	Per 100
Aralia Sieboldi, 2-inch pots	$10.00
Pandanus utilis, 2-inch pots	10.00
Areca lutescens, 2-inch pots	10.00
Dracæna terminalis, 2-inch pots	8.00
Latania borbonica, seed boxes	4.00
Cocos Weddelliana, seed boxes	8.00
Cocos plumosa, seed boxes	8.00
Asparagus plumosus, 3½-inch pots	40.00
Begonias, tuberous, single, finest flowers, distinct colors	10.00
Begonias, tuberous, double, very fine	20.00

(Begonias are started, but can be mailed for next three weeks)

JOHN H. LEY,
Tropical Nursery, Anacostia, **WASHINGTON, D. C.**
Mention American Florist.

ORCHIDS.

The Finest Stock in the World.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

ENGLISH IVY.
In 2½-inch pots, cheap
Send for price list of Bedding plants, etc.
JOS. H. CUNNINGHAM,
Delaware, Ohio.

Please mention the American Florist every time you write any of the advertisers on this page.

HOLLYHOCKS.

Chaters' Unrivalled Strain of Double Varieties.

PURE WHITE, PINK, YELLOW, BLUSH, DARK ROSE, CRIMSON, MAROON, ETC., Separate.

	100	1000
Extra strong, fine plants, in 3½-inch pots	$ 5	$45
Hardy Phlox, grand collection of varieties, year old clumps	6	50
Dwarf Phlox (Phlox Amœna), fine clumps	8	75
Oriental Poppy, year old roots	6	50
Sweet William, superb strain, year old clumps	6	50
Lobelia Cardinalis, year old plants	6	50
Platycodon grandiflorum (Large Bell Flower), one year old roots	6	50
Great St. Bruno's Lily (Anthericum liliastrum major) strong roots	6	50
Astilbe Japonica (Spiræa Japonica), strong clumps	6	50
Coreopsis lanceolata, strong clumps	8	70
Scotch Pink, year old clumps	8	70
Eulalia gracillima univittatta, strong clumps	8	70
" **Japonica Variegata,** strong clumps	6	50
" " **Zebrina,** strong clumps	7	60
Day Lily, Blue, fine plants	6	50
" " **White,** fine plants	7	60
Glaucium luteum (Horned Poppy), year old roots	6	50
Hemerocallis Dumortieri (Golden Day Lily) clumps	6	50
Ragged Robin (Lychnis Viscaria fl. pl.), strong clumps	8	70
Mountain Fleece, year old roots	8	70
Blackberry Lily (Pardanthus Sinensis)	5	40
Spiræa filipendula fl. pl., clumps	10	
" **ulmaria fl. pl.,** clumps	10	
Tunica saxifraga, year old plants	6	50
Yucca filamentosa (Adam's Needle), two year old roots	3	25
Ampelopsis Veitchii, two year old, 5-inch pots, 4 to 5 feet	9	80

25 at 100 and 250 at 1000 rates. Packed free of charge when cash for full amount accompanies the order.

J. T. LOVETT CO., Little Silver, N. J.

25,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION. Fine pot plants $2.50 per 100; $20 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circulation.

Our sales reached nearly 200,000 last year, and we can assure our customers that our plants are fully equal, and assortment of varieties surpass those of last year.

J. L. DILLON, Bloomsburg, Pa.

ROOTED CUTTINGS

FUCHSIAS. Storm King, Phenominal, Purple Prince, Elm City, Noveau Mastadonte, Black Prince, Chas. Blanc, Minnesota, W. E. Wait, $1.10 per 100 by mail.

HENDERSON'S NEW RED COLEUS

FIRE CREST.

I have a few plants in 2¼-inch pots to offer at 60 cents per dozen.

CASH OR C. O. D.

SEND FOR LIST.

S. B. FIELD, Roselle, N. J.

Tuberous Begonias.

SEEDLING PLANTS.

Single mixed	per 100	$2 50
Separate colors	"	3.00

BY MAIL.

Order now, they will stand better than later.

BRAUER & RICHTER, McConnelsville, O.

Orchids.

Established and Fresh Imported—Specially Cattleyas; very useful for cut flowers, at greatly reduced prices.

Best quality of Orchid Peat. Write for price list.

FREDERICK MAU,
P. O. Box 322. **SOUTH ORANGE, N. J.**

Verbenas

FOR ALL.

Perfectly healthy. Ready for immediate shipping. Having added many new and very attractive sorts to both our Mammoth and General Collection, we feel confident to say our collection is unsurpassed.

	Per 100	Per 1000
Mammoth Set, stock plants	$ 3.00	$25 00
" " Rooted Cuttings	1.25	10.00
General Collection, stock plants	2.50	22.00
" " Rooted Cuttings	1.00	8.00
Lemon Verbenas, 1 year old, strong	6.00	

SPECIALTIES IN ROOTED CUTTINGS.

Coleus, old standard and new fancy sorts	1.00	8 00
Feverfew (Little Gem), extra strong	2.00	15.00
Salvia splendens, extra strong	1.25	10.00
Moon Vine	2.00	
Ageratum, blue and white	1.25	10.00
Achyranthes Emersonii, etc.	1 00	
Heliotrope, light and dark—no rust	1.25	10.00
Begonias, assorted, fine	2 00	
Gazenias, splendens and variegata	2.00	

WOOD BROTHERS,
FISHKILL, N. Y

VERBENAS.

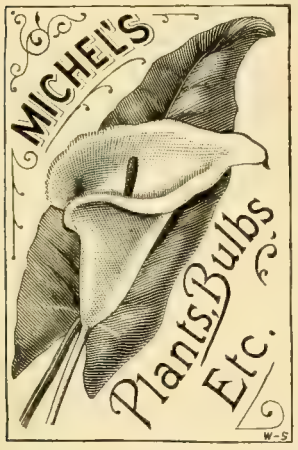
My Verbenas are perfectly healthy and include the Mammoths. From 2½-inch pots, $2.50 per 100; $20.00 per 1000.

PANSIES AND OTHER STOCK.

Pansies, fine clumps in bloom, $3 per 100; $25 per 1000.
Pansies, second size, in bloom $2 per 100; $15 per 1000.
Chrysanthemums, rooted cuttings, $2.00 per 100; $15 00 per 1000

Address **J. G BURROW, Fishkill, N Y.**

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.



Write for wholesale list.

MICHEL PLANT AND SEED CO., ST. LOUIS, MO.

FIRE YOUR ORDERS IN FOR AURORA

And other stock. I have the cleanest, healthiest cuttings I have ever had, mostly plants established in soi , at the sam price as rooted cuttings in sand.

EDW. SWAYNE, Carnationist,
KENNETT SQUARE, PA.

PURITAN.

NEW WHITE CARNATION.

Seedling with us 1888. Has been well tested and promises to be one of merit. The flowers are large, beautiful form and of great substance.

PLANT HEALTHY, VIGOROUS AND PRODUCTIVE.

PRICE:
Rooted Cuttings.....$8 per 100; $70 per 1000.
From 2¼-inch pots, $12 per 100; $100 per 1000.

Send for catalogue with full description of this and other varieties.

WOOD BROTHERS, Fishkill, N. Y.

50,000
ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.

Also an unlimited quantity of pips of the above varieties. Send for price list.

JOSEPH RENARD, Unionville, Chester Co., Pa.

DO YOU GROW
CARNATIONS?

We have Ben Hur, Golden Triumph, Puritan, Aurora, Pearl, Grace Darling, Silver Spray, Tidal Wave, Mrs Fisher, Lizzie McGowan, Daybreak, Nancy Hanks and seventy other varieties. Send for trade list.

GEO. HANCOCK. Grand Haven, Mich.

Mention American Florist.

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also **AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN**, besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

HARDY WATER LILIES AND LOTUS.

Egyptian Lotus (Nelumbium Speciosum), each,	$1 50
Japanese Lotus (Nelumbium Nuciferum) "	1.50
Nymphæa alba candidissima	1.50
Nymphæa odorata rosea	1.00
Nymphæa Marliacea chromatella	1 50

Tropical varieties; Night blooming varieties, and other choice aquatics. Catalgues free.

WM. TRICKER, Dongan Hills, (S. I.) N. Y.

ROOTED CARNATIONS.

HINZE'S WHITE.....Per 1000, $10.00; Per 100 $1.25

Cash with order. Cuttings put in Jan. 1, on Feb. 8 **99 per cent. were well rooted.**

DE WITT BROS., BRISTOL, PA.

E. G. Hill & Co.,
RICHMOND, INDIANA,

Still have a fine stock of the FOUR New Carnations offered by us this year.

BEN HUR—The finest of the Wilder color.

MRS. ROBT. HITT—A greatly improved Tidal Wave, both in color and size.

WHITE DOVE—The finest of all the whites.

ATTRACTION—Crimson scarlet.

You need the above for stock next season. Per 100, $12.00; per 1000, $100.00. Five hundred at thousand rate.

Other varieties of Carnations, New and Old, at lowest prices.

CHRYSANTHEMUMS, NEW AND OLD.

With the increased interest every florist sh uld stock up with the newer and better kinds. Let us send you 100, our selection, new and recently introduced varieties, only $4,00. Send for complete list of Chrys.

In the way of **New Geraniums** we lead the **WORLD.** You need the newer of these splendid varieties of recent introduction.

THE BRUANT RACE are invaluable as bedders in our hot and trying climate. 100 of these in 10 varieties only cost you $4.00; or 100 in 20 varieties, $6.00.

Try our new **SUN PROOF** white bedding variety **Mrs. J. M. Gaar.** This equals **Queen of the West** or **Gen'l Sheridan** as a bedder. It is the finest introduction in Geraniums of recent years. One plant 25 cts.; 6 plants $1.25; 12 plants $2.25. 12 of the very latest Geraniums for $2.00, in 12 varieties.

Forcing Varieties of H. P. Roses.

MAGNA CHARTA, HEINRICH SCHULTHEIS, ANNA ALEXIEFF and GENERAL JACQUEMINOT, 100 $4.50; 1000 of above for $40.00.

Other Roses, New and Old, in immense quantities. Send for our list.

E. G. HILL & CO.,
• • • • RICHMOND, IND.

ROOTED CUTTINGS.
CARNATIONS AND VERBENAS.

LIZZIE McGOWAN.—More good and fewer poor points than any white Carnation ever sent out. Strong well rooted cuttings at $2.00 per 100. Also a few other varieties. Prices on application, or get revised list.

LANCASTER BEAUTY VERBENA.—A distinct novelty; very pretty and a good selling sort, $2.00 per 100. Mammoth and other good varieties mixed, at $1.00 per 100, or $8.00 per 1000.

PANSIES.—Good stocky little plants in bud and bloom, at $2.00 per 100, or $15.00 per 1000. 250 at 1000 rates. Almost every florist knows how good the strain is.

CANNA.—Emile Leclaire, as pretty as an orchid, yellow with brown markings, $3.50 per 1000.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

CARNATIONS.

Finest NOVELTIES of the year, and best Commercial varieties.

COLEUS.

Best assortment in the country. All the good Bedders.

"JOHN RALPH."

The new Fancy Coleus is a gem. Fine color and foliage. Pot plants, 6 for $1.

GET MY LIST BEFORE YOU PURCHASE.

ALEX. McBRIDE, Alplaus, N. Y.

— ROOTED CUTTINGS ONLY. —



NOTICE.

Our Special Spring Price List to the Trade, page 555 February 4th AMERICAN FLORIST.

REASONER BROS., Oneco, Fla.

Send 10c. for full catalogue.

Mention the American Florist when writing to advertisers on this page.

BUY YOUR

LILY OF THE VALLEY

FROM A RELIABLE QUARTER.

I offer for delivery from Nov. 15 to Dec. 15, the **VERY BEST, THOROUGHLY MATURED, TESTED HAMBURG FORCING PIPS**, f. o. b. cars Baltimore.

$1.25 per hundred.
$5.00 per five hundred
$8.50 per thousand.
$80.00 per ten thousand

Order now and be sure you will be satisfied.

Special prices for larger orders.

THEO. ECKARDT,
RIDER'S P. O., Baltimore Co., Md.

The World's Fair.

The World's Fair grounds are beginning to show some signs of spring. The grounds surrounding the Horticultural Building have been well prepared for planting, having a deep surface layer of rich soil, covered with sod taken from the old Jackson Park lawn. The walks are being well gravelled.

The Horticultural Building is practically completed and it presents a noble appearance. Its magnitude is fairly overwhelming. Never was such a magnificent building devoted to horticulture at any previous exposition and in it will be such a display as the world has never before seen.

Last Monday Mr. W. C. Barry, of Ellwanger & Barry, the well known nurserymen of Rochester, N. Y., visited headquarters to arrange for the exhibit by his firm. Their display will pretty well cover the field of ornamental nursery stock, including specimens from each department of their business in the ornamental line. It will probably be the largest and most varied exhibit by any one nursery firm. Mr. Barry was much impressed with the immense amount of work that had been done and the magnitude of everything connected with the exposition. He will plant part of his exhibit this spring and the remainder next fall and the following spring.

The great rose garden, of which we gave a plan in a recent issue, is being rapidly planted with the hardy sorts of roses received and things all through the Hort. Department are rapidly taking form. Some 2000 climbing roses are on the way from the Dingee & Conard Co. to train over the wire trellis that surrounds the rose garden. "Uncle John," as Mr. Thorpe is familiarly known among the exposition people, is as busy as a bee and as happy as a lark overseeing the work of planting that is going on briskly all over the grounds at this time.

The greenhouses are filling up with seedlings and young plants—not forgetting the chrysanthemums—and progress is to be seen on every hand. The heating apparatus for the greenhouses, consisting of four of the largest size Furman steam boilers, has been installed. The Horticultural Building itself will also be heated, but the apparatus will not be installed until some time this summer. According to estimates submitted it will take no less than *ten miles of pipe* to heat the great structure.

Now is the Time to Buy

DRACENAS FOR SPRING SALES

We offer the following sizes:

3-inch at.....$8.00 per 100
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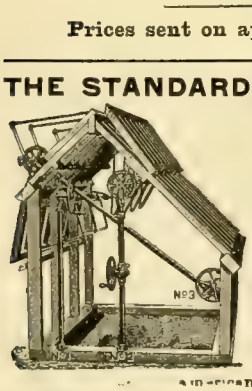
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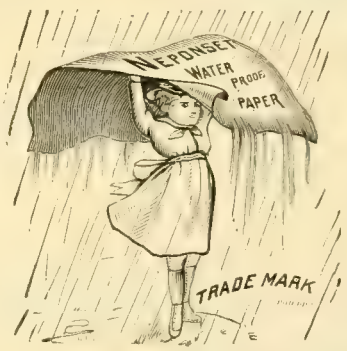
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Hold	1,000	1000	1000	1,000	500	5 0	500 pots.
and Weight	19	23	32	42	32	44	61 lbs.

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	10 cts.	11 cts.	14 cts.	17 cts.	22 cts.	40 cts.	60 cts.
For 1 dozen	2¼-in.	2½-in.	3-in.	3½-in.	4-in.	5-in.	6-inch pots.

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CELERY CULTURE, complete, 50 cts., or given with all orders for 5,000 plants.

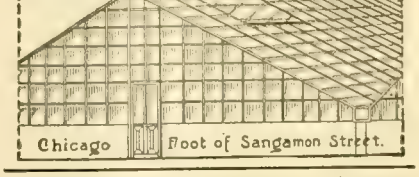
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Worcester, Mass.

Another Easter has come and gone and we are all a little better off financially but worse physically.

The trade in Worcester was considerably larger than last year. Prices were good and the supply fully sufficient. Harrisii brought $3 a dozen at retail readily and best roses $4. There was quite a call for Harrisii in pots, and 8-inch pans of tulips, narcissus and hyacinths went like hot cakes.

Every year there is a noticeable falling off in the demand for made-up stuff; loose flowers have the call. The demand for long stemmed carnations has increased wonderfully and it looks now as if the carnation would soon rival the rose. Trade was a little dull before Easter, but indications point to a better business after this.

Several churches bought their lilies direct from Bermuda this year. It was rather poor stuff; lilies were small with about eight inches of stem and the leaves had all turned yellow. They are usually satisfied with home grown lilies after one trial, and in fact the same money put in Harrisiis in pots would make a great deal better showing. A. H. LANGE.

Toronto.

Trade still keeps pretty lively in this town and the weather has been cool and fine; cool enough to prevent the buds from swelling much so that spring will be delayed to a later date than last year.

The accounts of the increased Easter business from your various correspondents in last week's issue were perfectly exhilarating and show I think that the clubs by holding shows, etc., etc. have done a vast amount of good to the trade and to all engaged in the horticultural profession. The founders and officers (past and present) of the various clubs should feel highly gratified that their efforts are beginning to bear fruit.

I omitted to mention in my last notes that at the meeting of the association I was directed to thank the AMERICAN FLORIST for the valuable gift of a copy of the FLORIST'S directory. E.

SASH BARS

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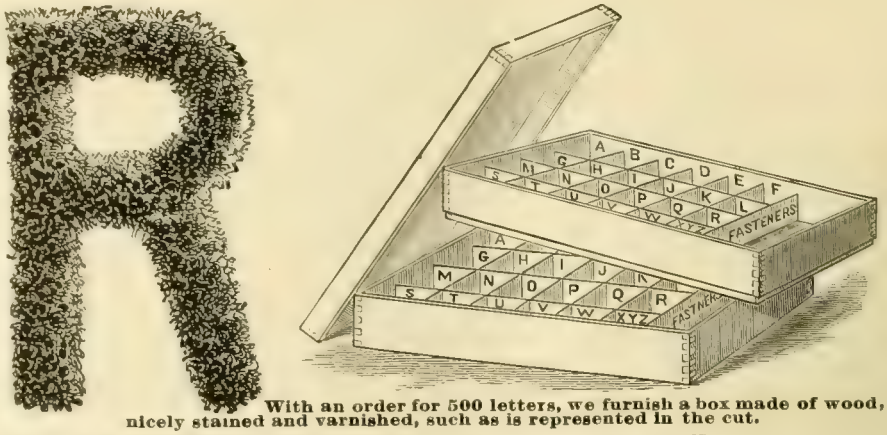
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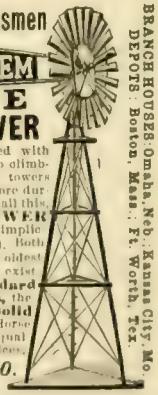
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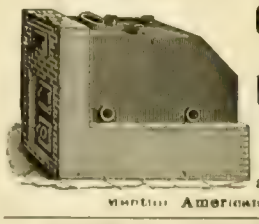
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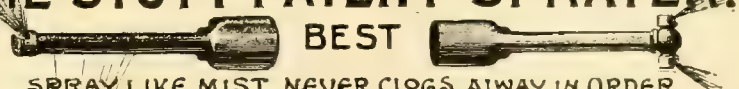
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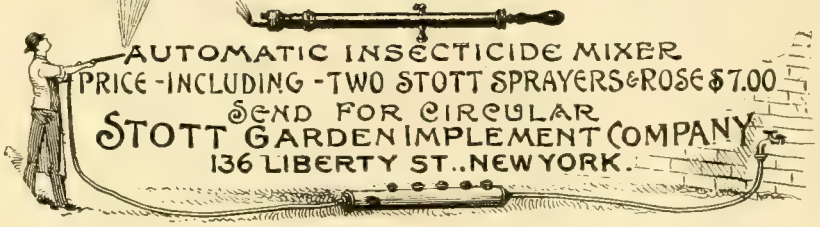
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SPRAY LIKE MIST, NEVER CLOGS, ALWAY IN ORDER

STOTT PAT^D SYRINGES.



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PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Syracuse, N. Y.

It has been my pleasure to record increasing sales year by year at Easter. Certainly the one just passed has eclipsed by far all previous ones. The volume of trade was simply enormous, and surprised the florists. Flowering plants of all kinds sold readily and at good prices. There was not a great demand for set pieces, loose flowers having the call. At almost all the Sunday schools plants were given away. This of itself made a large drain on the florists. Another very pleasing new feature was the beautiful floral decorations in the windows of the large dry goods and other stores, which help so much to educate the people, and the Central New York Horticultural Society feel that their efforts in this direction are meeting with great success.

The gardeners in the private places made great preparations for a good supply of flowers, which were appreciated. Mr. Meneilley, who has charge of Mr. Hamilton White's greenhouse, had a magnificent crop of Niels and other roses. He has also some fine seedling carnations of great promise of which I shall have more to say in the near future.

Mr. Bartholome, who was for some years head gardener to Mr. Theo. Dissel, started for himself last fall and has one of the best built greenhouses I have seen. It is 120x20. He grows mostly carnations. His Silver Spray were simply grand, and his pansies too were remarkably good. He intends building a rose house this summer. Henry Morris, of Elmwood Park, has also made additions to his greenhouses.

The following changes have taken place in private establishments during the year: Mr. William Hawson, late of Oswego, head gardener to Mr. Theo. Dissel; Mr. Campbell, head gardener to Major Alex H. Davis. H. Y.

THE FLORIST is still growing and a removal to larger and more convenient quarters was necessary. It found these at 322 Dearborn street, where mail should now be addressed.

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CLEAR CYPRESS SASH BARS

HOT BED AND VENTILATING SASH

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Done with expert ability for Florists, Nurserymen, Seedsmen. Write to
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STANDARD FLOWER POTS.
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THE LARGEST PLANT FOR THE MANUFACTURE OF FLOWER POTS IN THE WORLD.
And it is equipped with all the Latest Improved Machinery, which has been built especially for us.
WE ARE NOW MANUFACTURING,
And with our enlarged facilities we shall be enabled to supply goods in unlimited quantities, and thus very soon fill all orders promptly with a POT FAR SUPERIOR to any yet offered to the public.
Send for catalogue and price list.
A. H. HEWS & CO., N. Cambridge, Mass.

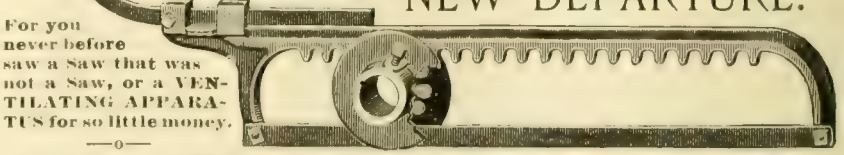
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As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
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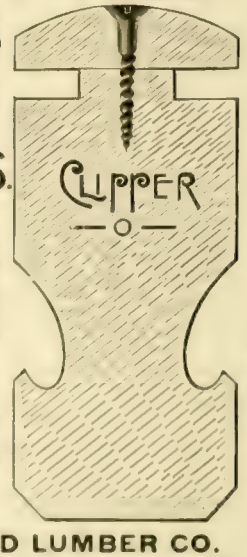
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Price list for any number.

2 -inch,	per 1000,	$3.25	5-inch,	per 100,	$ 1.88
2¼ "	"	3.50	6 "	"	2.20
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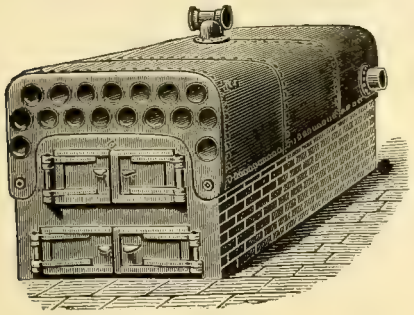
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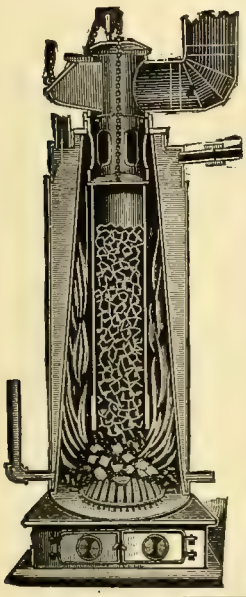
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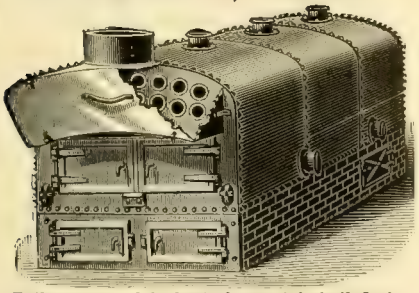


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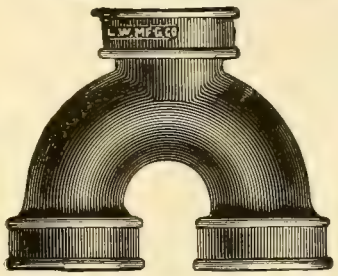
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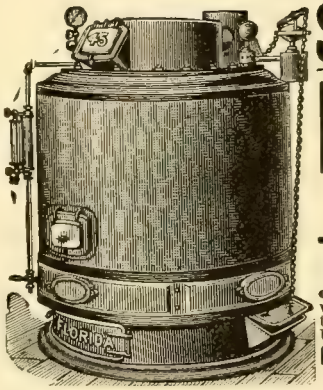
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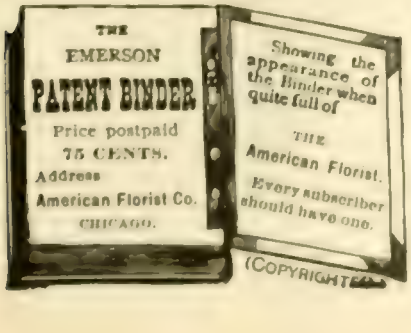
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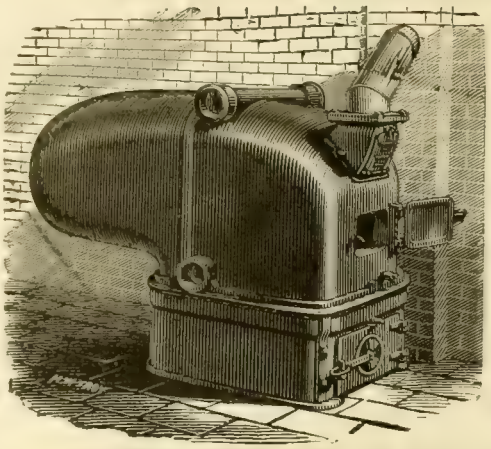
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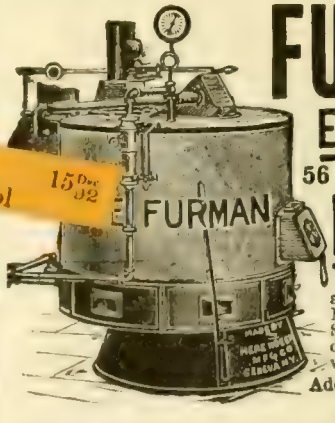
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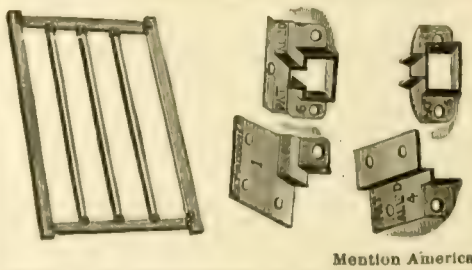
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Vol. VII. **CHICAGO AND NEW YORK, MAY 12, 1892.** **No. 206**

THE AMERICAN FLORIST

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YOU CAN'T AFFORD to do business without a copy of our new trade directory and reference book.

THE Society of Minnesota Florists has decided to hold a three day rose show at Minnetonka the latter part of June.

REPORTS show that the cold rainy weather has seriously retarded the opening of spring bedding plant sales in the west.

Proper Names for Colors.

THE WABAN ROSE.

It is very often the case that one may be misled by the indiscriminate use of terms which do not exactly express what is meant. We hear of such things as "Yellow whitewash," "A light shade of kid in gloves," "Oval dishes" and "red hair," and we never smile! The absurdity of such expressions never occurs to us. Who ever heard of a *shade* being light, or a *white* being yellow? And why should the elliptical shaped dish be termed oval, and the light russet brown hair red? Yet however loose such terms may be we must acknowledge that we obtain a very clear notion of their meaning. And why? Through custom! But to speak correctly, if red is a color whose extremes are scarlet and crimson, then the girl whose natural hair is actually scarlet is a splendid character for the dime museum. She is a unique.

Now, expressions with such wide latitude as these are legitimate perhaps when employed with their usual aptitude, in our ordinary walk in life, but technically, when we come to serious business their use is absolutely inexcusable; they promote confusion and distraction; they are dangerously indefinite.

When we come to color description we are at a loss to know what names to use; everybody seems to have a different idea about the scope and limitation of some certain name, and as a natural result one rarely receives any adequate and clear impression of the color some one else is attempting to describe. For instance, some of our commonest of color terms are indefinite to a bewildering degree, they are too general, they need some limitation. "Sky blue" is an indefinite term, there are a thousand different blues in the sky, which may be seen under a thousand varying conditions of light and atmosphere, but the intense blue of the sky at the zenith on a clear day is an unvarying standard color. Then why not describe such a color in just such a way? There should be no question, no doubt as to our meaning, when we describe a color, and such definiteness is quite within the bounds of what is possible; the one thing *necessary*, though, at the beginning is an absolutely reliable standard, a standard which shall be familiar to everybody. Thus the blue which I have spoken of exactly meets the requirements which a perfect understanding between two or more persons when talking about color demands.

In the choice of some particular flower for an accurate color description, the Waban rose for instance, there are more ways than one of arriving at the truth. But if the truth is reached we do not care much about the way that led to it. We will admit that there are longer and shorter ways, but it by no means follows that the shortest way is the best. If, therefore, the way I have chosen to describe certain colors may seem circuitous it must be remembered that I have tried to circumvent obstacles and avoid precipices.

The Waban rose and its foliage have certain distinct qualities of color which I think will be found exclusively its own property. In no other rose do I find the same delicate play of pink color. To sum up its description in precise terms I would describe the "Waban" as follows:

1. The pink is composite, it shows a bluish tincture at the outer edges of the petals and a decidedly yellow effect toward the juncture with the stem.

2. The greenish-yellow color at the stem juncture has a strong influence with the pink under strong light.

3. Under artificial light the pink is of a quality which gains almost immeasurably in depth or intensity and loses in broken tone.

4. Under strong sunlight the pink gains in its intensity, retains the bluer tones which are entirely lost under artificial light and shows its delightfully broken tones in almost infinite variety.

5. On account of the varied character of the pink the flower under all conditions has a soft appearance of color, which under artificial light is greatly accentuated and glows in an intensity of yellowish pink when the light is strong.

6. The green foliage leans strongly toward yellow tones.

In a word, what, from this description, can we say of the Waban's color, which will comprehend its chief characteristic? This, I think: It is a pink rose, broken in color tone in which the yellow tincture prevails.

Now, for the sake of accenting these peculiarities which I have just described let us compare with the Waban another type of rose color which is in strong contrast with it.

The Mme. Gabriel Luizet possesses nothing in common with the Waban in point of color tone, yet both are, generally speaking, pink roses. Look for one instant at the Luizet, its pink is cold beside the Waban, there is no glow in it. The characters of these two pinks differ as greatly, even to the eye of a superficial observer, as do the types of beauty with which we are familiar in the American and the Spanish lady. It is unnecessary to go into particulars and draw out comparisons, the difference is radical, it is complete. But a few of the distinctive features of color in the two roses we may perhaps consider with some profit.

The Luizet rose possesses a lovely pink which suggests to me a surface quality, with no softness but a great deal of refinement; there is an "all one" definiteness about it; there is no uncertainty at all. The Luizet seems to say, "I have an ideal pink in my mind, I produce it here

in my face and in my bosom, and I propose to stick to it." The Waban might say: "There are so many beautiful tones of pink I like that I don't know which I should prefer to wear, so I will deck myself in a little of all and arrange them in such a way that the world never dreamt of before." The Luizet arrays herself in a green, bluish in tone, but as uncompromisingly certain as her pink. The Waban contents herself with a green at once yellowish, but as variable and as artistic in tone quality as her pink is.

Now, what shall we call the pink of the Waban, and how shall we name that of the Luizet. Here there is a slight difficulty, because there is no absolute pink in nature which will serve as a standard like that which the zenith blue of the sky furnishes. I must go to my paint box, or to the prism, for my color standard. For the Luizet I should choose as a match my pink madder, but greatly diluted with white; from the prism I would choose that red which was nearest the crimson and farthest removed from the scarlet and say that *that* color diluted with white would produce the matching pink.

There is, then, no scarlet pink in the Luizet, but a pink near the crimson pink, greatly diluted with white. There *is* scarlet pink, pure pink and crimson pink in the composite pink of the Waban, but in this rose the pure pink has the ascendancy in daylight and scarlet pink (which is derived from the yellow light) in artificial light.

Under the conditions which I have described the Waban shows an aptitude for certain surroundings which will produce immense artistic effects in the hand of a skillful florist, but he should be careful, for perfectly apparent reasons, to keep the other beauty, the Luizet, away from it.

F. SCHUYLER MATHEWS.

Notes from the Bedding Trade.

Although the standard bedding plants remain unchanged year after year, we constantly find some valuable newcomers, and the energetic retailer naturally keeps his eyes open for any novelty in his line. Not that he can always go in for them at once, for a retail florist whose trade is largely local usually finds his largest trade in plants he can sell for a moderate price; he can often dispose of three plants at a quarter each sooner than one at fifty cents.

Without doubt one of the greatest things of recent introduction is the now well known strain of French cannas; no dealer in bedding stuff can afford to be without them. But the price still seems high to many small amateurs, and people who buy one year do not need to buy again the next, because the tubers increase like a hill of potatoes; when you have them one year you have them for all time. Still, they are some of the showiest plants we have, and will continue to sell in any place where there is much planting.

It is generally asserted by those in a position to judge that by another season the tuberous begonias will carry everything before them. They have proved a grand success in bedding, and the growth is so luxuriant, the coloring so brilliant that they make a grand hit everywhere. It would be difficult to find anything making a finer show outside, and any retailer would find it a paying speculation to plant a generous bed of them on his own place this year. Such an advertisement, though not so far-reaching as printers' ink, would prove effective with every one who sees it.

A decided novelty noted at Peter Henderson and Co.'s, is the Tom Thumb strain of single dahlias. The one great objection to the single dahlias has been their stalkiness, which has entirely disappeared in this class, for their natural height is only twelve to fifteen inches. The plant forms a compact little bush, flowering profusely, and the blooms are as large as on the ordinary plant. Another fine dahlia is the new Ami Barillet, with very rich dark foliage, bronzy purple in color. Speaking of dahlias, which always seem in favor with the public, Maid of Kent may be noted as one of the best striped ones—clear red and white, and although the stripes may vary, they never run out entirely to one color.

The coleus never loses its standing, being without doubt one of the best foliage bedding plants we have, and many of the old sorts are as popular as ever, in spite of their newer rivals. A great many growers now buy their coleus and other soft stuff in the form of rooted cuttings, as this enables them to get Easter stuff out of the way before starting with bedding plants. Among new coleus "Fire Crest" is a very good red, slightly marked with yellow; the leaves are deeply toothed and its habit seems very desirable. Ad other new variety is "Shelley's Yellow," which is most excellent in color and habit, and is said to be more vigorous than Golden Bedder. A thoroughly strong yellow coleus is highly desirable, for we are often disappointed in this respect.

Among climbing or trellis plants, which are always in demand, it would be hard to find anything to excel the old-fashioned Solanum jasminoides grandiflorum, which is now enjoying a new lease of favor. It flowers most abundantly both indoors and out, and its starry flowers are most attractive. It is well suited for growing against a wall.

For a basket plant nothing ever excels the ivy-leaved geraniums. Apart from their beauty they can be dried out cruelly without serious damage. Some very desirable new double varieties have clear pink or red flowers of large size, a decided improvement on the old sorts.

A good many people like the musk as a basket or window box plant, and there is a new variety with double flowers which is a great improvement over the old one. By the way, a most charming thing noted at Peter Henderson's was a variegated tropæolum, which is likely to be a great success in baskets or vases; it is not yet sent out in the trade. The leaves were a silvery green, bordered with clear white, a very dainty thing. It originated in England, and ought to command high favor for there is plenty of room for good running and climbing plants. One of our old stand-bys in that direction is Vinca major, especially the variegated form, which grows so luxuriantly that it is not only always handy for planting, but may be used at a pinch for decorating.

Among market plants some who grow exclusively for that class of trade find the very dark varieties of Phlox Drummondii sell well; they are sold in little clumps, four or five plants in a pot. The paler sorts are hardly so well liked, being more suggestive of the wild phlox.

This spring the new daisy Snow Flake has proved its popularity, being most admirable for early bedding. Daisies and pansies are always the first of our bedding plants, decorating places which must be filled with summer stuff later in the season, and there is usually a good deal of call for them in early cemetery work.

This season very few calceolarias have been noted; yet the dwarf yellow seems generally liked. It is sometimes said that it is rarely so well grown here as abroad, though some seasons a good many fine plants are to be seen.

It is worth noting that the fuchsia always retains a hold on the affections of so many amateur growers; big firms dealing largely in mail orders note this especially. Yet the fuchsia cannot really be called a success with us, particularly outside, for the hot summers dry it right up. However, as one large grower remarked, whenever the fuchsia does flower, the bloom is worth looking at; it is always well shaped and well colored, and the plant is attractive so long as it continues to exist, so people always admire it.

Blue flowers are singularly scarce among bedding plants, the standards in this class being lobelia and ageratum, but the old browallia will be found useful; its flowers are produced freely, and are a very distinct color. It is not very often seen, however.

The dwarf white ageratum is found generally satisfactory, being a good thing for edging.

We see a good many of the hardy garden pinks used now, proving a desirable thing in bedding. The newer strains are really fine, giving their best effect when planted in a mass. As they are found in striped, ringed and solid colors they give the opportunity for varied effects, and bloom so continuously that the bed is always attractive. A good many have been sold in the auctions, but it would be hard to find any plant not sold at auction now. These sales are a great convenience to many who have a large retail bedding trade, since their space is naturally taken up before Easter by flowering stuff. There is rarely sufficient room in such places to accomodate both classes of stuff, while the succession of plants can be managed very nicely.

EMILY LOUISE TAPLIN.

Miscellaneous Notes.

BY WM. FALCONER.

EASTER, A SUGGESTION.—Let me suggest the use of the white rock cress (Arabis albida) and the white moss pink (Phlox subulata alba) as flat, bordering or carpeting plants in Easter decorations. The rock cress was in bloom out of doors with us Easter Sunday, and the moss pink beginning to burst a few buds—now it is a sheet of snow. Both plants are hardy as a dandelion, of the easiest possible propagation and cultivation, the cress being multiplied by seed and the pink by division, slips or cuttings. Have one or two year old plants—mats—in a sunny cold frame (simply to hasten their blooming), and so as not to touch one another, and bring them into bloom for Easter. They might be grown in sunk pots or flats, or if planted out in the earth in the frame they might be lifted and put into pots or flats for the occasion, or lifted and the earth shaken partly away from them as we do in the case of selaginella, and use them for carpeting or bordering. They are dense, flat, and white as snow.

WALTER'S WHITE PHLOX.—Mr. Thomas Roberts, of Green Grove Springs, Florida, sends me a small box full of blossoms of this beautiful native plant. The flowers after a four days' journey by mail reached me in perfect condition, not a floret had drooped and they kept in good condition in water, after getting here, for four days



THE FLORAL CARNIVAL AT SANTA BARBARA, CAL.

more. Mr. Roberts writes: "It is quite hardy and blooms perpetually here, more profusely perhaps at this season than any other, unless cut back. Because of its snowy whiteness and its good keeping and shipping qualities I deem it worthy of introduction as a factor in cut flower work." The typical Phlox Walteri has bright purple flowers, but this variety which is occasionally found wild, has pure white flowers, on long slender stems. Wouldn't they come in handy hereabout at Easter?

MUSHROOMS in a hurry.—From spawning till bearing takes, according to my practice, six weeks. But I am getting old in years and ways and undoubtedly a laggard in practical fungology. A year or two ago a farmer in Pennsylvania took to raising mushrooms "in four weeks," but he was so secretive about showing how he did it (showing a man how and telling him how are not always equal information) that he wouldn't invite me to visit him after I asked him to. But revenge is sweet and now I've got it, for up starts a mushroom spawn in Washington that will grown mushrooms in "15 to 20 days!" This "Simplex" spawn from the Capital beats the Quaker just as much as the Quaker beats me.

MUSHROOMS AND STRAWBERRIES.—A gentleman from the brick regions of this state called to see me about mushrooms the other day. He has a large cellar, and last year went into the mushroom growing business for the money that is in it. He put in 700 square feet of bed surface and has cut 1,000 pounds of mushrooms from it. He sold his crop to dealers in New York at 80 cents a pound, and now, April, he is getting 90 cents. It was useless for him coming to me for advice, as his success (over 1½ pounds to the square foot) is greater than mine; I am content with 3-5 to ¾ of a pound. And now he has got strawberries on the brain. Five to six dollars a quart for these berries in midwinter has touched him in a tender spot, and he has visions of a Fragaria gold mine. But I shook my head. I didn't mention roses at a dollar a piece or flowers of any sort lest you might have to add a new name to your directory, I simply advised him to stick to his mushroom bonanza and let other things alone.

Floral Carnival at Santa Barbara, Cal.

We present in this issue a group of views of the recent floral carnival at Santa Barbara, Cal., from photographs kindly sent us by Mr. Joseph Sexton of that city. As will be seen from the views the display was unusually elaborate and must have required an enormous quantity of flowers.

DO YOU WANT a list of the l[illegible] to continue superintendents of Ameri[illegible]ame over from find such a list in our nev[illegible]tioned. There and reference book. [illegible]s Meredith, H.



Eel Worms in Roses.

Club roots, mentioned in my last, were fully described by Prof. Halsted in the FLORIST (page 660), and as he very justly remarks they will occupy our thoughts and energies for some time.

If any of your readers, finding club roots on their roses, will select some that are beginning to turn brown and with a sharp knife cut them open in transverse sections, put a drop of water on the same, slightly pressing the puply matter with a fine pointed instrument, then put the glass on which this should be done under a microscope with a magnifying power of from 200 to 300 diameters they will find plenty of small worms; if not the first time they certainly will after one or two trials. And by taking some of the freshly formed white looking tubercles and cutting them into thin slices, putting them on thin pieces of glass under the same power, the same kind of eel-like worms can be seen imbedded in the flesh-like looking material; in fact, it is their presence which causes it.

Prof. Halsted says there are from one to several hundred eggs deposited in each of these bulb-like little lumps. I have myself counted over 100 extracted from one, and that of course in rather a rough way of investigating, and, I doubt not, if I had the time to thoroughly test it very many more could be found. In some of the sample roots sent me I have found them much more abundant than in others; this may be as much due to the condition the roots are received in as anything.

But now comes the great point at issue, how to destroy this terrible pest. Some years ago I thought the ordinary rose bug (Aramagus Fullerii) the worst enemy the florist could possibly have to contend with, but they are insignificant compared with this. It behooves us to get into immediate training to wage a war of extermination against this, our common enemy, but I doubt not many will start by asking how to begin it. Well, I frankly confess I am as much in the dark as any one, for, though I have been trying experiments for some time, I have not yet arrived at anything definite in the matter. Mr. Halsted suggests cooking the soil for all who have been troubled with it; as chemicals appear to be out of the question, for the simple reason that the worm must be destroyed in the soil before using it at all, it can readily be seen that anything in the way of a drug to reach every particle of the soil would mean an enormous expense, and if cooking, or rather roasting the soil, has to be resorted to some of our inventive florists would confer a boon upon his fellows by getting up some kind of an apparatus that would simplify the matter. Where large quantities of compost have to be so treated it means a big job under any circumstances, and treating the soil alone will not answer the purpose as the pests are to be found in all kinds of decaying vegetable matter including manure, though its retailer's home—so far as present investigation to pl[illegible]ws—is in the roots of native his own place, etc.

tisement, thou[illegible] did not affect roses, but printers' ink, w[illegible]een troublesome to the every one who se[illegible]

roots of violets and many other cultivated plants. I saw a bed of violets myself completely ruined by it 20 years ago, and it has often struck me very forcibly that this club root has considerable to do with the present violet disease. But, to return to roses, it appears that to destroy the worm it is necessary to heat the soil at least up to 200 degrees Fahrenheit, hence my reason for suggesting an apparatus equal to the demands. No toy will answer the purpose, and to burn the compost simply means to destroy the bulk of its vegetative properties, rendering it practically useless without the addition of more manure. This is too serious a matter to be entertained.

Having received many communications relating to this subject I take this means of replying in full to them all, and hope that all who are interested will investigate the matter as fully as possible, not only as regards the animal itself but in all matters appertaining to it, as by that means something definite may be arrived at.

We are promised, and believe shall have, a very able paper on this subject at Washington next August, by one of the best informed men in the country, and it may help us very materially to solve this problem effectually if all who can will go there and take up the subject and thoroughly discuss it; meantime it would be a very great help to have the matter discussed thoroughly in this paper, as the more light we can get on it the better we can see to work.

Since writing the above I have noticed the item of "Root Knot on Begonias," where Mr. Robert Shore (page 626) says, "if there are nematodes in the soil you will see them jumping around." Mr. Shore must be blessed with a wonderful eyesight if he can see them without artificial assistance, for the simple reason that quite a number of people have tried to see them here through the strongest kind of a pocket lens that I can find, but no one has so far been able to detect the slightest sign of them until they are put under a microscope, and even when under a lens magnifying 300 times the largest will not appear more than half to three fourths of an inch long. Is not Mr. Shore mistaken in the matter? Possibly he has reference to some other insect which it is easy to suppose does the mischief, but in reality has no connection with the root galls whatever. His advice to give lime water is all right for any that may be in the soil, but for those in the galls it is simply useless, because if given strong enough to penetrate the roots it means killing the plants also. Better take his other advice—take the cuttings off, put them into clean soil and burn all the balance, including the pots they were growing in.

J. N. MAY.

Summit, N. J.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted. You will find such a list in our new trade directory and reference book.

DO YOU WANT a list of all the national and local trade organizations in America with names and addresses of officers, time and place of meeting, and much other information, and with historical sketches of the more important ones? You will find such a list in our new trade directory and reference book.

Palms.

Lack of available space in many establishments prevents the repotting of the stock of palms until after the Easter business is concluded, and in some cases bedding plants also interfere to a greater or less extent, but whatever be the obstacle the time rolls around, and the fact remains that the less delay in this operation at this season the better it will be for the stock.

The usual trade species of palms are not very fastidious in the matter of soil, a moderately light and reasonably rich loam being all that is necessary for most of such species, providing that proper care be given to the drainage of the pots, and also some attention to the watering of the freshly potted subjects, in order to avoid souring the soil before the plants have a chance to root in it.

And wherever it may be necessary the plants should be thoroughly cleaned before repotting, so that the new growth will be perfect and free from insects. Syringing with some of the various insecticides is doubtless beneficial if the operation is done regularly, but if a plant becomes badly infested with one of the many troublesome varieties of scale it will take more than syringing to clean it, and a thorough dipping and sponging may be needed, after which the spraying with insecticide may prove sufficient for a considerable length of time.

Some differences of opinion exist as to the value of the many different bug and scale preparations now in the market, but one strong objection to most of them is their cost, and after testing a number of such preparations I have concluded that the most satisfactory in my experience has been a *weak* kerosene emulsion, this being a home-made remedy of very small cost.

The formula recommended is as follows: One pound whale oil soap boiled up in one gallon of water, and while the solution is boiling hot add three (3) gills of kerosene, the proper dose being half a pint of the above emulsion to one gallon of water, the solution to be made with warm water.

It will be readily seen that with whale oil soap at six cents a pound and kerosene at ten cents per gallon this will not be an expensive mixture, and it can be used for dipping, sponging or for syringing with little or no risk of injury to young foliage.

Of course some attention has been given to shading before this time or else the palms will have suffered, for while too much shading will make the foliage thin and tender, full exposure to the sun is also hurtful to most of the species when under glass.

The cheapest shading is whitewash, which may be applied in thin coats as required, but one great objection to this is the fact that the lime removes all paint from the woodwork of the house to which it is applied, and consequently has an unsightly effect, though it must be admitted that the wood so exposed appears to become so impregnated with the lime that decay is little if any faster than when properly painted.

Naptha and white lead makes a good shading for external application and does no harm to the paint, and an inside shading of tobacco cloth or some similar light material may also be used with good effect and is not very expensive.

At this time of the year a comparatively high temperature may be given to induce a more rapid growth, and should be accompanied with copious syringing on each bright day, but it should always

be remembered that in order to produce satisfactory stock for house decoration the plants should be gradually hardened off by lower temperature and free ventilation during the latter part of the summer, else many and loud will be the complaints from customers during the following winter of the tenderness and lack of vitality in their palms. W. H. TAPLIN.



Chrysanthemums.

BY EDWIN LONSDALE.

[*Read before the Florists' Club of Philadelphia.*]

When the word "Chrysanthemum" is mentioned our minds naturally revert to the "Queen of Autumn," although there are several distinct species belonging to this popular genus, conspicuous among which may be mentioned C. frutescens, the Marguerite or Paris daisy, and the ox-eyed daisy, (C. leucanthemum) of Great Britian, which is now spread very generally over many parts of America. The Paris daisy blooms most of the year, whereas the "white weed" of our fields, blooms the latter part of May, June and July.

Our "Autumn Queen" is known botanically as C. sinensis and is supposed to be a native of China, although it is not found in a wild state anywhere, nor is it recorded that it was ever found growing naturally wild.

It is not positively known even at what period the chrysanthemum first became the object of admiration in the far East, but according to Chinese chronology we may safely put it at about 2,300 years ago. The celebrated Chinese philosopher Confucius, who lived about that time, said in some of his writings: "The chrysanthemum has its yellow glory." In Japan it is of more recent introduction, but it can be traced back to 1186 A. D. in which year the swords of the reigning Mikado were decorated with figures of the flower.

The first European author to mention the chrysanthemum was Breynuis; this was in the year 1689. It was referred to as Matricaria Japonica maxima. In 1764 a small flowering species was found growing in a garden at Chelsea, now a part of London; this is the first recorded evidence of its presence in English gardens. Only twelve (12) sorts were known in England in 1820. Four years later the number was increased to twenty-seven (27).

In November, 1846, the Pennsylvania Horticultural Society held an exhibition when most of the plants shown were chrysanthemums. There were seven collections exhibited in competition: First premium for twelve named varieties was awarded to Benjamin Gullis, gardener for Jacob Snider Jr.; second to Archibald Henderson. Benjamin Gullis also received a premium for the best American seedling. So it will be seen that Philadelphia was growing and showing good chrysanthemums and raising seedlings nearly fifty years ago.

The first chrysanthemum show held during the present era was in 1883. The Florists' and Growers' Association of Philadelphia was in existence at that time. A special meeting was held Sept. 29 of that year for the purpose of considering the advisability of holding a chrysanthemum show. The opinion generally expressed, was, that it was not worth while making the attempt. But there was one among the number who clung to the idea that a chrysanthemum show could and should be held. This was Mr. Robert Kift who has been aptly called Philadelphia's Chrysanthemum Champion. He secured a promise from the principal growers and probable exhibitors of that time, that if the premiums would be guaranteed they would consider the matter of an exhibition favorably. The Pennsylvania Horticultural Society had very little faith in the idea. After much coaxing $100 was promised toward a premium fund by that society. A little later $100 more was added. After much well directed effort Mr. Kift succeeded in obtaining from that public-spirited firm, Wanamaker & Brown, a guarantee for the full amount of the premiums—about $400—with the understanding that the plants could be made use of, by them, to decorate their place of business after the close of the exhibition.

The great contest that year for the first premium was between John Stewart, gardener for George Bullock Esq., and Peter Vallandigham, gardener to Wistar Morris, Esq. The honors fell to Mr. Stewart. The judges had a difficult task before them. Mr. Stewart's plants were the most uniform in size and neatly trained, but Mr. Vallandigham's plants had the larger and finer flowers. The main hall was completely filled with various collections on that occasion, but, if my memory serves me correctly, Mr. Vallandigham's plants were the only ones on exhibition that had been what is known as *pot grown*. It was the general way of cultivating the chrysanthemums in those days to plant them in the open ground in spring, allow them to grow there all summer, and a few weeks before the exhibition opened they were lifted, and potted and trained into shape. This was one of the pioneer shows which was to start the whole country thinking about chrysanthemums.

In reference to this and to the New York show, Mr. John Thorpe said in the *Gardeners' Monthly* the following February, that, "The popularity of the chrysanthemum is of the most universal character, which will undoubtedly grow steadily and become permanent, so much so as to warrant my predicting, it will not be long ere we see every city, large and small, forming societies for the exhibiting of it all over America. There is no plant more showy, lasting, or beautiful."

It is a proud day for Mr. Thorpe to see his prediction so unquestionably fulfilled in so short a time.

In 1884 there was a marked improvement in the plants exhibited, and up to the present time it has been conceded that Philadelphia has the honor of exhibiting the best grown plants of chrysanthemums that have appeared in this country. It was in this year that John Shaw first made his appearance as an exhibitor. He was at that time gardener at the Friends' Asylum, Frankford, when he opened the eyes of all the growers and the public at large, as to the possibilities of the culture of the chrysanthemum. His deftly trained plants and fine flowers were the marvel of all beholders.

It was in 1885 that William K. Harris conceived the idea of getting up a premium worth trying for. He succeeded in getting six others besides himself to make a fund by contributing $20 each, making $140, to be divided thus: first premium, $100; second, $40. The contributors were W. K. Harris, David Ferguson & Sons, Craig & Bro., John M. Hughes, gardener to George W. Childs, Esq., Henry A. Dreer, Alfred Warne, gardener to Clarence H. Clark, Esq., and Walter W. Coles.

Only the two last named made an exhibit in that class. David Ferguson & Sons had some fair plants on exhibition on that occasion, but they were hopelessly out of the race for a premium. After securing the best available talent to act as judges, it was decided that W. W. Coles was entitled to the coveted first prize. Among the first prize collection were the then new varieties, only a short time before imported direct from Japan by H. Waterer. There were Gloriosum, (this being an early variety was just past its best); President Arthur and Syringa were both in excellent condition. Mrs. Charles Wheeler, W. K. Harris, Gorgeous, Duchess, Snowstorm, Moonlight, Fimbriatum, Mrs. William Mencke and Jessica. Many of them are unapproachable to-day in their respective classes. Jessica is one of the best early whites we have, and Gloriosum and Gorgeous are both early yellows, still in cultivation. Mr. Warne's Duchess and Mrs. Charles Wheeler, were the best in his group. The training of Mr. Warne's plants was very neat, but Mr. Coles' individual flowers were far superior in every way.

The collection of new varieties which was disseminated in the spring of 1884 proved to be the best lot that ever left Japan at one time. Most of them are especially adapted to the American climate, much more so than the so called Chinese varieties which were and still are so popular in England. These Chinese sorts were well nigh failures in this part of the country. Great difficulty was experienced in treating them so that they would retain the foliage until after the flowering period. The new collection referred to laid the foundation of what has been remarkable in the production of new varieties.

The best seedlings which have been raised here have either sprung directly from plants which were a part of that importation or indirectly in the second and succeeding generations. In addition to those named in Mr. Coles' winning collection there were Mrs. Frank Thomson (this is known as W. G. Grover in England), David Allan, Mrs. George W. Childs, Robert Bottomly (this is known in England as Lady Trevor Lawrence and Mrs. Beale). Mrs. George Bullock is claimed to be a synonym of Domination, but I can not understand why this should be, for Domination is described as *flesh colored pink*. Mrs. Bullock never assumed that color with us, excepting when the bloom first commences to unfold. It quickly assumes a pure white color and it is in the stage of a flower fully expanded that it should be described as to color. There is a mystery about this that I would very much like to see cleared up. The Mrs. Bullock was first exhibited under the name of Milkmaid. It was in the collection shown by Mrs. Bullock's gardener, Alexander Kerr, and it was through him I think that the name was changed from Milkmaid to Mrs. George Bullock.

Excuse this digression. To continue with the varieties which came over from Japan at the time mentioned. There were Golden Prince, Miss Meredith, H.

Waterer, Lord Byron, Bicolor, Hon. John Welsh, F. L. Harris, President Garfield, Minnie Miller, Delicatum, J. Collins and some others. Many of the varieties produced seed quite freely, so much so that seedlings are springing up in nearly every greenhouse in every corner of this great country. At first the seed saving was purely a haphazard business, but in these days more judgment is exercised and the probabilities are that the limit to the improvement has not yet been reached.

What we term the petals of the flower are generally spoken of as florets by experienced writers, especially is this the case in the old world. The everyday florists and gardeners can not bring themselves to call them florets, even if it is correct, but an effort has been made to establish the term petal-florets, as this seems to convey a more comprehensive idea. The reason they are called florets is because each petal is an individual which can perfect seed regardless of what is done in any of the other florets in the same flower. At the base of each petal will be found an ovule or seed in embryo. If the petals are clipped off close to the stigma it will be seen that the divided pistil necessary to the production of the seed is there complete. These are termed ray-florets, those in the center are disc-florets. The ray-florets bear the seed or are seed bearing florets, whereas the disc-florets furnish both the pollen florets and seed bearing florets.

Some years ago it was stated that it was impossible to effect a cross between two varieties. That notion is now exploded. It is a tedious operation it is true, but the man of patience can accomplish it if he is careful. In order to be quite sure that no other pollen grains than those the operator desires to be used reach the stigma of the proposed seed parent, it is safer to isolate the plant so that no foreign pollen grains which may be floating in the atmosphere may have an opportunity to frustrate our intentions. To facilitate the setting and ripening satisfactorily of the seed place the plant in a warm and comparatively dry atmosphere.

Select as a seed parent a good healthy grower. I have often thought the Mrs. Bullock would make an excellent variety from which to save seeds on account of its dwarf habit yet robust constitution. The petals should be clipped close to the stigmas, and with a pair of tweezers carefully remove the stamens, this should be done before the pollen cases are sufficiently ripe to burst, or all our time and trouble will go for naught.

The late Mr. Henry Bennett, of England, whose success in raising new and valuable roses is known far and wide, said in connection with the selection of the probable parents of new and improved varieties for commercial purposes, that we must pay particular attention to secure a high quality in the pollen parent. We are more likely to obtain better results from a moderate variety as a seed parent and a high class pollen parent than we are if the parentage is reversed. "Of course," he goes on to say, "the better the parents the better the results." That rule will hold good all through the vegetable kingdom, be it roses or chrysanthemums.

If the plant which is intended for seed bearing be isolated from all other varieties as recommended it will be better to have the flower of the variety which is to furnish the pollen conveniently near with the stem in a bottle or other vessel containing water, so that occasionally during the day it may be gently shaken over the flower head which has been prepared ready to receive the pollen. It is better to follow this plan, as all the little stigmas may not be in a receptive mood at the same time.

A paper bag or a piece of tissue paper should be kept over the flower operated upon so as to keep insects away, or to avoid the possibility of the air carrying pollen grains of some undesirable variety to the stigmas. By far, most of the seed saved is left to insects and chance and it is wonderful how many very superior varieties originate in this way. More well directed efforts should be expended in the production of earlier varieties for outdoor decoration; varieties that will flower before very severe weather sets in. Gloriosum ought to be one of the best for this purpose, as it can generally be depended upon to produce its golden blossoms early in October.

Violet Root Galls.

There are many diseases of the violet. The leaf-spot is due to a fungus, in fact there are no less than three kinds of fungi that cause the spot of the leaf of the violet. Without the microscope these fungi can not be distinguished, but to one who is familiar with them they may be known by the general appearance of the spots themselves. It is not to our purpose here to enter into any consideration of this subject.



VIOLET ROOT GALLS

There are other fungi that produce indefinite brown patches of the leaf and cause much damage. It is rare to find a violet plant affected with but a single kind of fungus and sometimes six or more may be met with upon a single leaf.

One of the serious pests of the violet is the eel-worm or nematodes. These are microscopic worms that multiply in the substance of the violet roots and cause enlargements called galls that may be very numerous and sometimes of considerable size.

The engraving is from a photograph of a violet plant that was dead and from all appearances fell a victim to the nematodes. The foliage was all dead and mostly gone while the roots were badly knotted and distorted from the presence of multitudes of the galls of the eel-worms.

These worms enter the tender roots from the soil and there increase rapidly. Their presence seems to poison the tissue and induces an abnormal growth similar to that which takes place upon many sorts of leaves when stung by gall flies and other insects. Many plants have their roots affected in this way and the same species of nematode probably inhabits scores of kinds of plants.

So far as known the gall trouble of the roses is the same as that of the violet and if this be true it follows that the infection may pass from one kind of plant to another. It would not be well to grow violets in soil where roses had been galled or *vice versa*.

There is no remedy for a plant that is badly infested, for nothing harmless to the plant can be used to kill the worms. The main point is to keep the nematodes out of the roots. The soil therefore should be free from them and this is a difficult matter. The soil could be heated to a high temperature and the worms would be killed. Freezing will accomplish the same end; but either of these two extremes is not always possible. Lime water is said to kill them. The less the manure used the better so far as the galls are concerned. Violets could probably be grown profitably with no manure. With the soil free from the worms and the plants also there ought to be no trouble in having violets exempt from the nematodes. In setting out plants it is well to look at the roots and reject all with galls.

Underground troubles are the least readily investigated but none the less fatal. If a plant looks pale and there is a drying of the edges of the leaf it is always well to look for mischief at the roots.

BYRON D. HALSTED.

Rutgers College, April 27, 1892.

Gardeners' and Florists' Club of Boston.

The members of the Gardeners' and Florists' Club with their friends, many ladies included, were present to the number of 250 or more at the May meeting of the club to listen to a lecture by Prof. Geo. L. Goodale, of Harvard College, upon "Noted gardens of the world." The lecture was illustrated by means of the stereopticon, the many views shown being selected from an extensive collection of photographs secured by Dr. Goodale while on a tour last year and shown now for the first time.

Colombo on the Island of Ceylon was the subject of the opening views. Here were seen beautiful avenues of ficuses, groups of musas and cocoanut palms, vast expanses of nelumbium and the famous cinnamon gardens. From Colombo a transition was made to the center of the island and the country which was the home of the old tyrant kings of Ceylon, where the scenes of tropical verdure were entrancing in the extreme. The entrance to the Garden of Peradenia was indescribably beautiful. Here were seen grand groups of arecas and cocoanut palms, avenues of Oreodoxa regia and Ficus elastica, the latter with giant buttressed and distorted trunks that would put into the shade our noblest elms and oaks. The lofty yet graceful clumps of bamboos were a genuine surprise and gave an idea of the tremendous growth of these magnificent plants.

After a peep at the rice fields the grand scenery in the highlands of Ceylon and the Experimental Gardens of Hak-galla the audience was in imagination carried across the sea to Victoria, Australia, where were shown magnificent forests of eucalyptus interspersed with noble tree ferns; thence to the Botanic Gardens at

Sydney and at Melbourne where some lovely views of luxuriant vegetation were displayed.

The lecturer incidentally remarked that there was some sort of a botanic garden in almost every town of consequence in Australia and that the inhabitants take great pride in them and regard them as the principal attraction to be shown to visitors from abroad. He also called attention to the extent of Australia, which is apt to be popularly underestimated, but really comprises 25,000 more square miles of territory than the United States exclusive of Alaska.

The next place visited was New Zealand and the Botanic Gardens at Auckland. Here, too, the views were superb. Splendid tree ferns such as dicksonias and alsophilas, towering fuchsias, tangles of climbers and twiners were among the most conspicuous features of the landscape.

Then came the Island of Java and the environments of the lovely city of Batavia. More cocoanut palms and Banyan trees with their interlacing trunks.

In the Botanic Garden of Buitenzorg, which the lecturer termed "a garden of rare delight," were great groves of the true sago palm, coffee trees and enormous specimen pandanuses. A curious feature was the great numbers of bats hanging from the branches of the trees and looking more like pendant fruit than anything else. The lecturer spoke in great praise of the generous management of this garden and the privileges there granted gratuitously to all who desired to study.

The Botanic Garden at Singapore was the last place visited and then followed an illustration of various tropical fruits, some of which are as yet unknown here.

Among the interesting notes made by the speaker was the peculiar fact that in Ceylon, whereas the arecas always grow perfectly straight and erect, the cocoanut palms are invariably crooked. In Java, however, the cocoanut palms are all straight. In the Garden of Peradenia the ravages of ants are so destructive that large blocks of earthen ware are used for labels. The weeds most troublesome in this garden are the common lantana and the sensitive plant, both of which it is next to impossible to keep down.

A vote of thanks was tendered to Dr. Goodale for his kindness and liberality in providing what was conceded to be the most entertaining occasion ever enjoyed by the club.

A short business meeting followed the lecture. Mr. P. Welch gave notice of proposed amendments to the constitution changing the date of the annual meeting, election of officers, etc. Lawrence Cotter, for the committee on supper, reported that after paying all expenses there was a surplus of $10 to turn into the treasury. A special committee was appointed to prepare and send a letter of condolence to Mr. Wm. Edgar, who was sadly afflicted by the sudden death of his wife, and a committee was also delegated to represent the club at the funeral. Among the visitors present were Mr. Geo. C. Watson, of Philadelphia, and Mr. Winfried Rolker, of New York.

Boston.

The street fakir question has been uppermost this week. The retail florists have been making warfare on them, with the result that none of them have been able to secure licenses, and for the past few days the streets have been practically clear of them. Occasionally one sees a venturesome one who is taking his chances, or who is courting arrest for the purpose of testing his rights in the matter. And test it they will, for the fakirs have a strong organization and enough money and they will not let the thing go by default. Their strongest allies too are found among the growers. If it were not for the street fakirs many of our largest growers would find a big deficit when they come to foot up their month's business, especially at this season of the year. Boston is peculiarly situated in this respect. The gulf between the growers and the retailers is wider here than in other large cities for several reasons. The strongest reason is probably the fact that nearly all of the large retailers have greenhouses of more or less extent themselves. Naturally their own stock is used up first before they will call upon any grower to supply them with anything. This lack of support on the part of the store florists has always been the cause of much discontent and lack of harmony on the part of the growers who have been forced to find other outlets for their stock. Thus the street fakirs have come to be of great service to the growers and they have flourished. The amount of flowers handled by them on a bright day is very large, and since they have been shut off the street, stock has accumulated on the hands of some of the growers to an extent that has caused mutterings deep and significant. A peculiar fact is apparent also which will greatly weaken the argument frequently made by the store florists that the street men were ruining their trade. The wholesale men and the growers alike assert that there has been not the slightest increase in their sales to the stores, and the flowers that would have been marketed through the street men simply remain rotting on their hands.

Two young men employed in florists' stores have recently suffered considerably from the results of wounds in the hands by rose thorns. It is said that one of them is in danger of losing his arm. One physician attributes the trouble to poisoning by hellebore or some similar substance used on the plants. If this is so the question of liability becomes a serious one.

The cut flower trade is very quiet for this season of the year. Roses are rather overstocked, Mermets especially. White carnations are scarce and sell at sight.

Spring work at the Arnold Arboretum has been seriously hindered on account of a strike by the men employed there who demand less hours and more pay.

Magnolia stellata or Halliana is in bloom. The flowers are double white and as shapely and fragrant as a pond lily.

The Epimediums, alpinum rubrum and macranthum, with their pretty little pink flowers are very attractive and deserve to be better known. Mr. Dawson says they force easily.

Among the handsome prunuses now in flower are Mirobolana, white, tomentosa in several forms, both white and pink, Miqueliana, soft pink, and pendula, rosy pink, the latter forming a picture of unsurpassed beauty at this season of the year.

In the beds at the Bussey Institution are to be found a great variety of spring flowering bulbs. Among the tulips sylvestris major makes an especially pretty show. Irises, pumila, deep purple, and Persian pale blue are very attractive and one of the prettiest flowering bulbs is Puschkinia libanotica compacta; color beautiful blue.

New York.

The most notable event of the past week was the Actor's Fund Fair at Madison Square Garden, which was generously aided by the Florists' Club. The flower booth, which owed its effectiveness to the labors of the gentlemen of this body, was 75 feet long, curving to the outline of the amphitheater. The formality of the pillars in front was relieved by plants, among them nepenthes and dendrobes in baskets. The back was a bank of azaleas, palms, lilies, ferns, hydrangeas and other flowering and decorative plants. Some distance out in front of the booth was a tall May-pole, banked at the foot with a mass of azaleas and hydrangeas. From the top of the May-pole a quantity of laurel garlands extended, radiating over the booth, while a flight of doves appeared to have settled on the garlands, above the fair saleswomen. A white satin banner hung in the center, bearing in gold letters the inscription "Wishing you success. New York Florists' Club." The flowers on sale were sufficient both in quantity and quality to give the booth the appearance of a miniature show. The trade generally deserves much commendation for their readiness to assist the Thespians.

Retail florists, growers, wholesale men, all pulled together and the names of those who generously responded to the circular sent out by the club with choice flowers and plants would make a long list. Every afternoon and evening during the week many prominent members of the club gave their time and assistance in the booth arranging flowers, making boutonnieres and in various ways helping the score of pretty young ladies who presided. Whether the latter were the prime attraction or whether the laudable desire to assist a worthy charity was uppermost we shall not attempt to say, but it was probably a combination of the two. The saleswomen seemed to have it their own way with the vast throngs of people who came their way and some phenomenal sales were made, an occasional exchange of a boutonniere for a $5 bill or a sale of one American Beauty by another American beauty for a $20 bill being a frequent occurrence.

The original committee of the club, Messrs. Siebrecht, Hafner and Burns, worked with a will every evening. Mr. Plumb acted as cashier, and Mr. Dihm also gave the most of his time for the entire week. The manner in which the affair was carried through will be a feather in the cap for the New York Florists' Club and can not fail to result in lasting benefit to the trade generally. Manager Palmer is so much pleased with the affair that he has expressed his willingness to devote a special performance at his theater next season to the New York Florists' Club.

Hydrangeas are still very plentiful, being seen in quantity everywhere. The great stock of lilies which flooded the market this spring has caused a good deal of discussion among growers, some of them are in favor of trying to regulate the supply, but that seems practically impossible. The thing may adjust itself in time, like the smaller bulb stuff, which during the past winter seemed just about right in quantity. There is one thing, however, which needs an emphatic denouncement, and that is the attempt on the part of Bermuda growers to sell flowers as well as bulbs; if they try it again those over-wily growers are likely to find that they have been sawing off the limb they are trying to sit on.

Concerns that will solicit trade for their

bulbs from the growers here and will afterwards, when these bulbs are in bloom, do their best to destroy the prospects for the sale of the flowers from the bulbs by advertising and shipping their own outdoor grown blooms to retail customers here at ruinous prices, deserve to be systematically boycotted. Only one thing has hitherto stood in the way of the accomplishment of their greedy designs, and that is the miserable condition in which their stuff arrives.

The cut flower trade has been in a very bad condition during the past week.

Roses are a drug and it is an impossibility to realize a satisfactory figure on them. Large quantities have been sold as low as $5 per 1000, and $10 per 1000 is considered a good sale. One consolation is that this is no different from the experience at a similar time in past seasons, and in fact it has often been even worse. The new rose Bridesmaid is coming in to Burns & Raynor in very handsome shape just now, and W. P. Wight's Wattevilles are superb. Valley is in some cases very fine. This extra quality is frame grown and sells readily at $4 per 100. There are still a few violets hanging on. Harrisii lilies are dead stock and can not be sold at any price. Smilax is also getting plentiful again. Carnations not very plenty but going slowly with the exception of the white ones. There is an abundance of sweet peas in the market. Outdoor lilac from south of here is extremely plentiful everywhere and very cheap.

One of the oddities noted in a florist's window was a well flowered lot of the bottle-brush tree (Metrosideros speciosa) with its strange red flowers, which are so suggestive of the implement which gives it its common name. It is grown by Victor Dorval, a Long Island florist.

Some very quaint and charming rose baskets are designed by Thorley; they are of silver, in shape like a lace handkerchief drawn up at the corners in pleats so as to make a square basket.

One of the big silversmiths shows among his fern baskets some in the shape of a high heeled slipper of repousse silver, filled with small adiantums and pteris.

There is very little work just now in the way of decorations. Recent work in this line has shown a tendency to greater simplicity in design, most modern houses being so ornate that over adornment of flowers gives a confused effect. There is rather less decoration on the walls but a larger use of flowers in vases.

The auction sales of spring stock the past week were very good; the plants were excellent and sold well. Many amateurs buy at these sales, among them a fair sprinkling of women, but as the plants seem to bring as good a price at auction as in the nurseries they do not economize particularly by it. However, they are happy, and so is the trade. Both Young and Elliott had exceptionally good stuff last week and crowded salesrooms. At the former place were some very fine fuchsias from the Essex Heights Floral Co.; there were also some bougainvilleas from P. B. Meissner; its showy pink bracts are to be seen now in some of the florists' windows. At Elliott's among the geraniums was a fine lot of Souvenir de Mirande from J. Nicol; this is a very handsome new single variety, the flower being blush white in the eye, shading to deep pink at the outer edges, very much like a Cusin rose.

Mr. Dimmock has recently received a number of dried flowers of the old Cattleya labiata which are remarkable for their richness of color. Some are deep dark rose, and extra good varieties will evidently be found among the plants now being imported.

Alex McConnell is chairman and Wm. I. Brower secretary of a committee of florists which has been organized to take some part in the work of collecting funds for the Grant Monument Association.

Geo. Stumpp has leased for a term of five years the land and greenhouses lately occupied by John Finn at Second avenue.

R. B. Young has increased his plant auction establishment by the addition of the adjoining four story building, his old quarters being too small for the big spring business.

Mr. Will Currie, of Milwaukee, sailed per steamer State of California for Europe where he expects to make a long sojourn.

The subject for discussion at the May meeting of the Florists' Club was "Park embellishment, its character and use," on which an able paper was read by John R. Johnson, of Paterson city parks.

Philadelphia.

For the first time this season flowers have been a drug, particularly roses; it has been very hard to dispose of them at any price. When business is dull flowers accumulate very fast and it seems to make no difference how cheap they are the storekeeper will not buy more than he thinks he can sell.

The fakirs are reaping the benefit, however, and are doing a rushing business. One of them who has a doorway on 8th street about Chestnut in the center of the shopping district was doing a rushing business one day last week. People were almost climbing over one another to get his roses, which he was offering at ten cents a dozen. They were Perles, Gontiers and a few small La France. If he made a profit and the grower got anything it can't cost much to grow roses nowadays.

The most that is asked for Brides, La France, Mermets and Albanys is 6, Perles and other small roses 4, and they are sold away below these figures. Carnations sell for 1½, with good demand for white and pink, valley is 5, and most other bulbous stuff out of the market.

The men who make a specialty of bedding plants are now very busy. Griffen Bros., of Frankford, have an immense stock of verbenas, some 40,000 having been on the benches. A great many are grown in 4-inch pots and these are the best selling plants they have. They make a very showy plant grown in this way.

Several houses of roses, with which they have had great success all season, are still in fine condition and full of flowers. The houses are 10 feet wide with two rows of steam pipes around but the plants have done as well if not better than in other houses with middle benches. La France, Albany and Papa Gontier are their principal roses.

They top dress with sheep manure at this season when they can give plenty of air, but think it a little too strong for winter when the houses are closed up.

We noticed at Edwin Lonsdale's in the manure water barrel an arrangement of wire about one third the diameter of the barrel extending to the bottom, which could be lifted out; this contained the manure and left the water free to use when lifted out. This should be an improvement over the old method.

The last meeting of the Florists' Club was not very large in point of attendance, the rural members being now very much occupied with their spring business have not the time to attend. Two papers were to have been read, but both the essayists had been so busy with Easter and other business they could not get their essays ready, but promised to have them for the next meeting. K.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

J. C. VAN LINDLEY, Pomona, N. C., president; W. J PETERS, Troy, O., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A. WHITNEY Franklin Grove, Ill., treasurer. The seventeenth annual meeting at Atlanta, Ga., June 1 to 3, 1892.

The Atlanta Convention.

The program for the seventeenth annual meeting of the American Association of Nurserymen at Atlanta, Ga., June 1 to 3, has been issued by Secretary Green.

The convention will assemble in the hall of the House of Representatives in the State Capitol and will be welcomed in addresses by Hon. G. W. Northen, Governor of Georgia; Hon. W. A. Hemphill, Mayor of Atlanta; Hon. S. D. Bradwell, on behalf of the Georgia State Agricultural Society; Hon. R. T. Nesbitt, Commissioner of Agriculture, and Prof. J. B. Hunnicutt, of the University of Georgia.

Then will follow President Van Lindley's address, the reports of Secretary Green and Treasurer Whitney, and of special committees, after which miscellaneous business will be disposed of.

A list of the subjects to be discussed and the names of the essayists and speakers follows:

American species of plums and their prospective development. Prof. T. V. Munson, Denison, Texas.

Interstate shipment of nursery stock with reference to the California monopoly. Col. U. B. Pearsall, Fort Scott, Kan.

Duty of American nurserymen at the World's Fair. Hon. N. H. Albaugh, Tadmor, O.

Fruit tree packages. G. J. Carpenter, Fairbury, Neb.

Grading and assorting nursery stock. W. F. Heikes, Huntsville, Ala.

One way of preparing a nursery catalogue. J. Horace McFarland, Harrisburg, Pa.

How to manage employees. Geo. S. Josselyn, Fredonia, N. Y.

Advertising or agents—which? E. W. Reid, Bridgeport, O.

Iowa as a fruit state. D. A. Porterfield, Traer, Ia.

Peach and plum culture in the Pennsylvania mountains, without spraying. W. M. Benninger, Walnutport, Pa.

Who makes the most money—nurserymen or fruit growers. J. H. Hale, South Glastonbury, Conn.

Future work for this Association. Hon. S. M. Emery, Lake City, Minn.

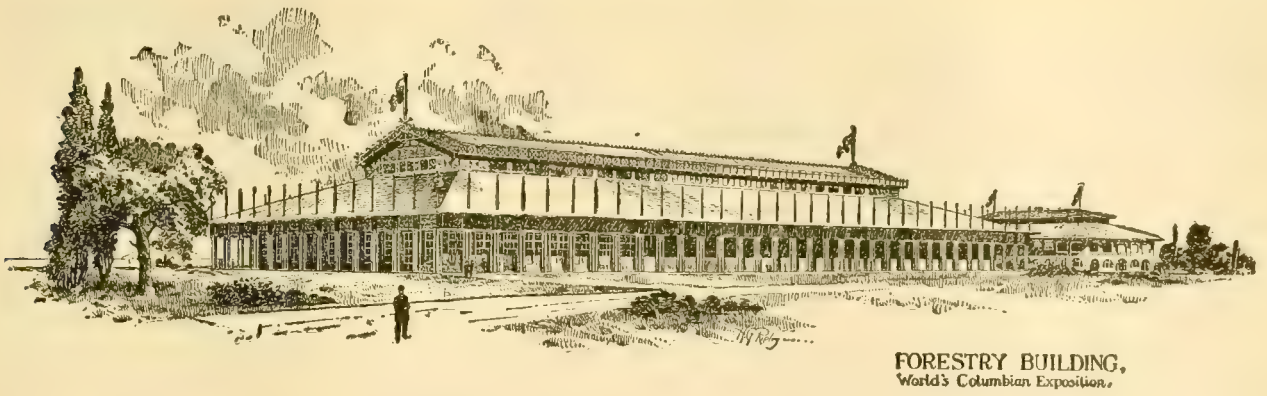
How to lose money in the nursery business. S. D. Willard, Geneva, N. Y.

Suggestions to nurserymen. P. J. Berckmans, Augusta, Ga.

In addition to the above solids there will be addresses in a lighter vein, Mr. J. Jenkins, Winona, O., being down for a speech on "The funniest man I ever met," and Mr. W. L. Glessner for one on "How to eat other people's water melons."

The headquarters will be at the Kimball House, at which reduced rates have been secured. Space for the usual trade exhibition has been secured in the hotel.

The Trunk Line Passenger Association has granted a rate of a fare and one-third on the certificate plan. The fare from Rochester, N. Y., to Atlanta and return



THE FORESTRY BUILDING AT THE WORLD'S FAIR.

will be $30.50. From New York and return, by boat, $32. It is probable that a special buffet car will be chartered, to leave Rochester at 8:30 p. m. Sunday, May 29, leaving Washington at 11:10 a. m. or 11 p. m. the next day and arriving at Atlanta at 4 o'clock the day before the meeting convenes. Those who can are invited to join the Rochester party. The trip from Chattanooga to Atlanta is directly over the route that General Sherman fought over, including the battle grounds of Dalton, Chicamauga, Resaca, Rocky Face Ridge, Allatoona, Kenesaw Mountain, Chattahooche, and a number of lesser battles, and is every inch historic ground.

Neither Michigan nor New England railroads have made reduced rates, but any member can secure a certificate for low rates on arrival at New York, Washington, Buffalo, Cleveland, Chicago, etc.

During the convention the Association will enjoy an excursion from Atlanta to Fort Valley, which will take the members 103 miles through the state and give them an idea of its resources and a view of some of the largest peach orchards in America.

Copies of the program may be had on application to Secretary Chas. A. Green, Rochester, N. Y., who will also supply any further information desired by those expecting to attend the convention. Correspondence relating to exhibits should be addressed to the chairman of the exhibition committee, Mr. A. R. Whitney, Franklin Grove, Ill.

Long Island Tree and Shrub Notes.

BY WM. FALCONER.

THE APPLE TREE TENT CATERPILLAR (Clisiocampa Americana) is exceedingly numerous this year. The webs became prominent early in April and more so and more numerous as the month advanced. With us it has confined itself strictly to rosaceous plants, and although it is reputed to enjoy willow, white oak, poplar and witch hazel, it has not, so far, interfered with these in our case. The plants in these grounds most infested by it are Japan quince, ornamental apple trees as Pyrus Parkmanni, P. floribunda, the double flowering Chinese apples, cherry trees of all sorts, but especially wild and ornamental kinds, and seedlings, and the genus Prunus generally. Orchard apple trees are less troubled than ornamental kinds, and pear trees are ignored by it. We read that it doesn't thrive on the peach tree, but this is not so in our orchard. And to display its botanical knowledge, as it were, it has visited a big bush of Photinia serrulata that we had boxed up out of doors during the winter; I've taken three nests off of it. I haven't found any on our rose bushes. In bright mild weather the caterpillars issue forth to appease their hunger with the early unfolding buds, but in inclement weather and at night they return to their homes in their tents. As soon as we see the tents we strip them off, at the same time carefully getting all the caterpillars and destroy them.

A LITTLE KNOWLEDGE OF BOTANY will help even a nurseryman. Take this tent caterpillar case, for instance. If the pest confines itself to rosaceous plants, and you know what the cultivated plants that belong to this order are, you needn't go searching all over your walnuts, birches, maples and lilacs for the pest, but restrict your labor to the plants belonging to the rose order, and so too you can instruct your workmen.

THE EFFECT OF THE PAST WINTER on trees and shrubs.—Generally speaking it has been severe. Up till the first of March however, plants looked well, but in April many things showed decided injury. Evergreens in any way exposed to the biting northwest winds got hurt considerably and nothing more so than the common hemlock. The green leaved English yew suffered but the variegated forms or golden yews didn't; the Dovestone yew where exposed got badly cut, where sheltered it has escaped, and the Canada yew in exposed places also got hurt. The Japanese cuspidata is our hardiest yew. Retinospora pisifera and its varieties suffered considerably and more so than any of the other kinds. Abies magnifica gets browned a little every winter and again in summer, but it got browned more this winter than ever before. The American holly in the teeth of the wind was defoliated, but on the sheltered side it retained its leaves. European or Japanese hollies are not hardy with us. Here on Long Island we are troubled by ice storms in winter, that is sleet storms when the sleet or rain freezes on the branches of the trees so thick that they often break beneath the weight of ice, then a wind arises and rattles the branches against each other to their great injury. The multitude of twiglets found under Norway spruces in winter have been broken off by these ice storms. Last winter we didn't have an ice storm at all, and the result is that Cedrus Deodara, Pinus excelsa and some others that used to suffer considerably in winter have emerged from last one in better condition than I have known them to for several years. Of course we shelter the deodara on the north side but not overhead.

A GOOD MANY deciduous shrubs, notably spiræas, got cut back considerably, but this was owing partly to immature growth last fall. And our raspberry bushes, which we do not bury, have been killed back more than I ever knew them to be before. Blackberries pulled through all right.

Forestry Building at the World's Fair.

The Forestry Building is in appearance the most unique of all the Exposition structures. Its dimensions are 200 feet by 500 feet. To a remarkable degree its architecture is of the rustic order. On all four sides of the building is a veranda, supporting the roof of which is a colonnade consisting of a series of columns composed of three tree-trunks each 25 feet in length, one of them from 16 to 20 inches in diameter and the others smaller. All of these trunks are left in their natural state, with bark undisturbed. They are contributed by the different States and Territories of the Union and by foreign countries, each furnishing specimens of its most charateristic trees. The sides of the building are constructed of slabs with the bark removed. The window frames are treated in the same rustic manner as is the rest of the building. The main entrances are elaborately finished in different kinds of wood, the material and workmanship being contributed by several prominent lumber associations. The roof is thatched with tan and other barks. The visitor can make no mistake as to the kinds of tree-trunks which form the colonnade, for he will see upon each a tablet upon which is inscribed the common and scientific name, the State or country from which the trunk was contributed, and other pertinent information, such as the approximate quantity of such timber in the region whence it came. Surmounting the cornice of the veranda and extending all around the building are numerous flagstaffs bearing the colors, coats of arms, etc., of the nations and States represented in the exhibits inside.

POMONA, CAL.—A local nursery has sold 200,000 olive trees this season.

A CALIFORNIA horticulturist is the man who has discovered the cause. He says that the reason that George Washington cut down the cherry tree was, it was infested and he couldn't bear to palm it off on the old man.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

Chicago.

The project of an International chrysanthemum show in the Horticultural Building at the World's Fair next November has at last been abandoned. The rate of progress through the interminable red tape was so discouragingly slow and the time was growing so short that it was deemed the wisest course to waste no further effort on it. The Hort. Society of Chicago will at once issue a premium list for an exhibition of its own next November.

Business has been quiet during the past week. Roses are not as plenty as they were the first part of the week, still there are more than enough for the demand. The quality is not of the best, much of the stock being badly mildewed. Outdoor daffodils, narcissus and tulips are coming in and the first named are very fine; the tulips are short stemmed.

Albert Fuchs has rented a store in the new Masonic Temple and expects to open within a few days.

The Madison Street Floral Co. is the title on a new sign at 44 East Madison street. John C. Bruckner, the late wholesaler, is the alleged proprietor.

During Mr. O. P. Bassett's stay in California he met at San Jose the great and only Neal that some Chicagoans remember to their sorrow. Neal informed Mr. B. that he was travelling for an eastern house, but did not say in what line.

John E. Bohan will build greenhouses at either Hinsdale or River Forest and will grow novelties in cut flowers for the Chicago market.

M. A. Hunt, of Terre Haute, is sending in some good outdoor valley.

W. W. Barnard & Co. have leased a building with four floors and basement at 186 East Kinzie street, to be used for the storage of seeds and bulbs, to relieve their stores in the Sibley warehouse which they still retain.

Among recent visitors to the city, were Mr. and Mrs. R. J. Mendenhall, of Minneapolis.

Mention the AMERICAN FLORIST when writing advertisers on this page.

CANNAS.

ADMIRAL COURBET $2.50 per doz

A variety that is not nearly so well known as it deserves to be. The flowers are nearest to pure yellow of the "Crozy" Cannas. They are beautifully spotted with scarlet.

EMILE LECLERC, yellow, spotted orange, 60c per doz.; $4.00 per 100.

PRESIDENT FAIVRE the very best old variety having dark leaves—flowers are crimson, $1.50 per doz.; $10.00 per 100.

PREMICES DE NICE, is the most effective yellow for beds and massing, $1.00 per doz.; $6 00 per 100; $50.00 per 1000.

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will make you money **FASTER** than any other plants for the next year. We are headquarters for

	Each.		Each.
MADAME CROZY, 3½ feet	$.60	**J. D. Cabos**, 4 feet, purple leaves, clear apricot flower, extra	$1.00
Star of '91, 3 feet	.50	**Alice Lefebvre**, 3 feet, cherry	.75
Alphonse Bouvier, grand flower, deep, lustrous vermilion	1.50	**Edward Michel**, 3 feet, orange flowers	.35
Childsii, 3½ feet, yellow spotted	.20	**Henry de Vilmorin**, 4 ft., red and yellow	.25
Gustave Senneholz, 2½ feet, salmon	.50	**Perfection**, 3 feet, yellow spotted red	.35
Louis de Merode, 3 feet, amaranth	.35	**Maurice Rivoire**, 4 feet, bronze foliage, carmine flowers	.25
M. Lefebvre, 4 ft., leaves veined purple	.35	**Prof. Charguerand**, 3 feet, crimson	.35
Miss S. Hill, 2½ ft., amaranth	.75	**Pres. Carnot**, purple leaves, carmine fls.	.35
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My old time Specialty, the Rose MME. CUSIN, per 100 plants, $5.50.

Also THE BRIDE	per 100 $5.50	THE WABAN	per 100 $ 8.00
MME. WATTEVILLE,	" 5.50	AMERICAN BEAUTY	" 10.00

Also **BRIDESMAID,** SUPPLY LIMITED.

From 2-inch pots:		From 3½-inch pots.
12 plants	$ 9 00	1 plant $ 1.50
50 plants	25.00	12 plants 15.00
100 plants	40.00	25 plants 25.00

"This is the most beautiful pink rose known." John N. May. M. A. Hunt.

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All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

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WABAN ROSE CONSERVATORIES,

Edmund M. Wood & Co., **NATICK, MASS.**

GRAND NEW CANNA "VENTURA".

Habit distinct, largest flowers of any sort yet offered. Self color. A beautiful blending of carmine and scarlet. Petals 1¼ to 1½ inches across by 3 inches long, tapering to center of flower and curving gracefully outward. Spikes large; flowers not crowded; foliage handsome dark green with darker line on edge of leaves; height 3½ to 4 feet. Splendid bloomer; vigorous grower.

75 cents each. Special rates for large quantities.

SEND FOR TRADE LIST. Mention this paper. **THEODOSIA B. SHEPHERD, Ventura, California.**

You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns

HAIL Lock the door BEFORE the horse is stolen. Do it **NOW!** JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

ROSES.

We offer **below** Roses, from 2-inch pots, at $30.00 per 1000, our selection; and $40.00 your own selection.

Reine Olga Wurtemburgh	Chas. Rovolli
Pride of Washington	Sombreuil
Triumphant	Mme. de Watteville
Etoile de Lyon	Marechal Niel
The Bride	Gloire de Dijon
Mlle. F. Kruger	Lady Washington
Compte de la Barth	Queen's Scarlet
Hermosa	A. D Charles
Malmaison	Louis Phillip
Perle des Jardins	Pink Daily
Waban	Mme. Alf. Carrier
Catherine Mermet	Mlle. Anette Seaut
Marie Guillot	Tennessee Belle
Mlle. Laurette Massimy	Bennett's Seedling
Miss Edith Gifford	Champeny
Bon Silene	

Below sorts we offer at $5.00 per 100, or $45.00 per 1000.

Mme. Laing	Boule de Niege
Perle des Blanches	Glory of Cheshunt
Anna de Diesbach	Boildieu
Pæonia	Louis Van Houtte
Gloire Lyonnaise	Gen. Jacqueminot
Count of Oxford	Magna Charta
Marie Baumann	Mme. Victor Verdier
Coquette des Blanches	Pride of Waltham
Coquette des Alpes	Anton Verdier
Lady Emily Peel	Etc., Etc.

Roses are in fine condition and will give satisfaction. Sample mailed if desired.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

ROSES NEW ADVERTISEMENT. ROSES

La France, Sunset, Perle, 2½-inch, $4.50 per 100; 3-inch, $6.00 per 100.

Brides, Mermets, 2½-inch, $4.50 per 100.

Marie Guillot, M. Niel, 2½-inch, $4 00 per 100.

Hermosa, 2½-inch, $4 00; 4-inch, $8 00 per 100.

10,000 Everblooming Tea Roses, 2½-inch, $4.00 per 100.

5,000 Hardy English Ivy, 2½-inch, $4.00; 4-inch, $8 00 per 100.

3,000 Strong Ampelopsis Veitchii, 5-inch pots, 30 inches high, likely b anched $12 00 per 100.

La Roche & Stahl,

13th & Chestnut Sts., PHILADELPHIA.

GREENHOUSES, COLLINGDALE, PA.

SUMMER BEDDING ROSES.

STRONG PLANTS, 2½-INCH POTS.

	Per 100
MARIE GUILLOT, best white	$4.00
ETOILE DE LYON, best yellow	4.00
AGRIPPINA, best red	4.00

Miscellaneous sorts including above, per 1000, $35.00.

CARNATIONS.

5000 LIZZIE McGOWAN, 2-inch..... 4.50
" " from flats... 4.00

J. C. VAUGHAN, CHICAGO.

GREENHOUSES. WESTERN SPRINGS.

ROSE PLANTS.

All the Standard Varieties, best for forcing. Strong, healthy plants in 2-inch and 3-inch pots propagated and raised from best wood. Price list sent on application.

GARFIELD PARK ROSE CO.,

1688 W. Madison St., CHICAGO.

PANSIES	$1 00 per 100
GERANIUMS, 4 inch	8 00 per 100
FUCHSIAS, 4-inch	7.00 per 100
BEGONIA METALLICA, 4 inch	1 00 a doz.
DAISY SNOWFLAKE 4-inch	6 00 per 100
PYRETHRUM, 4-inch	.75 a doz.
CINERARIA MARITIMA, flats	1.50 per 100

Cash with order.

☞ Small Geraniums, Fuchsias, Alyssum and Lobelia and Carnations, sold out.

THE COTTAGE GARDEN,
EAST MORICHES, N. Y.

2c. ROSES!

IN ORDER TO MAKE ROOM WE STILL OFFER A GOOD ASSORTMENT OF FINE, HEALTHY PLANTS

From 2½-inch pots, $2.50 per 100; $20.00 per 1000
" 3½-inch " 3.50 " 30.00 "
" 4½-inch " 4.50 " 40.00 "
} OUR SELECTION.

Waban	Marie Van Houtte	Duke of Edinburgh
Maurice Rouvier	The Bride	Charles Lefebvre
Mme. Elie Lambert	Niphetos	Mme. Montefiore
Mme. Joseph Schwartz	Anna de Diesbach	Bona Weillschott
Adam	Marie Baumann	Pink Rover
Mme. Margottin	Ferdinand de Lesseps	Esmeralda
Mme. Sipion Cochet	Earl of Dufferin	Reine Nathalie de Serbie
Princess Beatrice	Gloire de l' Exposition de Bruxelles	Mme. de la Collonge
Ernest Metz	Gustave Piganeau	Viscountess Folkestone
Mme. de Watteville	Mme. Renahy	Pierre Guillot
Souv. de Doctor Passot	M L. de Villmorin	Eugene Guinoiseau
Chromatella	Prince Camille de Rohan	Reine Marie Henriette
J. B. Varrone	Eugene Furst	Solfaterre
Mme. Martha du Bourg	Duke of Teck	Mme. Gustave Gossard
Souv. d'Auguste Legros	Elizabeth Vigneron	Washington
E. Sablayrolles	Duke of Connaught	Tennessee Belle
Mme. Cusin	Marie Rady	Baltimore Belle
Duchess Marie Salviati	Eugenie Verdier	Greville or Seven Sisters
Georges Faber	Maurice Bernardin	Agrippina
Gustave Nadaud	Martin Cahuzac	Queen's Scarlet
Mme. Phellippe Kuntz	Mme. Plantier	Hermosa
Jeanne Guilliaumez	Marchioness of Lorne	William Allen Richardson
Souv. de Francois Gaulain	Boule de Neige	Lamarque
Lady Castlereagh	Oscar A Roi de Suede	Marechal Niel
Marie Guillot	Gen. Jacqueminot	Gloire de Dijon
President	Fisher Holmes	

We wish to call especial attention to our Mermets and Brides, of which we have a fine and large stock in 2½-inch pots, which we offer at price, of our selection, as given above.

THE NATIONAL PLANT CO., Dayton, O.

Forcing Roses.

All the leading varieties—Beauty, Guillot, Bride, Mermet, Perle, and others now ready for shifting. You will find it to your advantage to plant nothing but carefully selected stock.

Send for list before placing your order. **M. A. HUNT, TERRE HAUTE, IND.**

ROSES.

100,000 Roses for florists' planting, strong, healthy plants of the leading varieties for forcing. Per 100, out of 2½-in. 3-in. 4-in.

PERLE, SUNSET, WABAN, LA FRANCE	$ 6.00	$12.00	$15.00
MERMETS, BRIDES, NIPHETOS, PAPA GONTIER, MME. CUSIN, MME. WATTEVILLE, MME. HOSTE and GEN. JACQUEMINOT	5 00	9.00	12 00

20,000 CHRYSANTHEMUMS, 100 varieties, including Novelties of '92, and the best standard sorts. Send for catalogue.

A. N. PIERSON, Cromwell, Conn.

✻ ROSES. ✻

We have the finest plants and largest assortment in 2½-in. pots ever in the northwest.

	Per 100		Per 100
Waban	$6 00	Niphetos	$ 6 00
Mme. de Watteville	6.00	Sunset	6.00
Wootton	6.00	Bride	6 00
Meteor	6 00	Perle	6 00
Mme. Hoste	6 00	La France	6 00
Mermet	6 00	Am Beauty	10.00
Duchess of Albany	6.00	Mrs. J. Laing	10.00

Also a large stock of VERBENAS, at $4.00 per 100.

R. J. MENDENHALL,

MINNEAPOLIS, MINN.

ROSES.

TEAS $30.00 per 1000
HYBRIDS 40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,

LOUISVILLE, KY.

ROSES.

The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100, Waban, $6 00; Duchess of Albany, and Meteor, $5.00 per 100; La France, Bride, Sunset, $5.00 per 100; Perle, Mermet, $4.50; Bennett, $8 00 per 100.

Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

C. A. SMITH FLORAL CO.,

7 South Seventh St. Minneapolis, Minn.

ROSES.

From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and Duchess of Albany, at $5.00 per 100; Meteor, at $6.00 per 100; American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

CHRYSANTHEMUMS,
leading varieties, 2½-inch pots, $5 per 100.

We are headquarters for the Meteor and Climbing Perle des Jardins.

ALL FINE HEALTHY STOCK.

JOHN HENDERSON CO.,

Flushing, N. Y.

Roses. Orchids.

Mermets, Brides, and Mme. Hoste, strong plants from 2-inch pots, ready to shift into 3-inch, $4.00 per 100.

Send Stamp for Special Orchid Bargains.

DAVID CLIFFE, FLORIST,
GERMANTOWN, PHILADELPHIA, PA.

ROSES.

	3-in. per 100	2-in. per 100
Bride, Mermet, Niphetos	$7.00	$3.50
La France, Albany, Perle	8.00	4.00
VERBENAS, $2.00 per 1000		2.50
Coleus, Alternanthera, Alyssum, Centaurea		2 50
Moon Vine, Manettia bicolor, Cobæa scandens		4 00

JOSEPH HEINL, Jacksonville, Ill.

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Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Chester County Carnation Society.

The regular monthly meeting was held May 7 at the W. C. T. U. rooms, Oxford, Pa., most of the members being present. The president and secretary were however both absent on account of sickness in their respective families.

Mr. Passmore gave a cordial address of welcome, responded to by Mr. Styer and Chairman Swayne.

Mr. Phillips, referring to the destruction of the red spider, knew of one grower using a tablespoonful of salt to 3 gallons of water with marked success. And speaking of the present practice in the propagation and growth of carnations, he thought there was something the matter with our treatment; we did not obtain as vigorous growth, perhaps due to practice in propagating. In looking over lots of cuttings, some very small and crowded when moved to earth, still kept crowded and cramped in growth, all cells for growth must be diminished in size and strength. Another lot was given room in pots on a border with the result of strong vigorous growth. These two cases illustrated the speaker's views on the subject.

Mr. Renard thought that if more room must be given on cutting bench, a higher price must be received for cuttings. Wm. Swayne said, "We must either grow fewer at higher prices or grow like grass and sell as grass." Mr. Skelton spoke of the experiments of the late C. T. Starr with early propagation and plants shifted to large pots and kept growing, the result not being as satisfactory as with stock propagated in March.

Considerable discussion followed on the resting of plants during their growth. Instances were given of young stock rested during March and April in cold frames and producing extra large crops of flowers. Wm Swayne thought the main cause of failure to have abundance of bloom late, and loss of vitality in old plants, arises from heavy stripping of cuttings. Growers who do not propagate for the trade can have an abundance of bloom and luxuriant growth throughout the entire season.

A fine display of seedling carnations was made by various members. Lawrence Thompson showed a pink seedling, a cross of Grace Wilder with Chester Pride. Edward Swayne showed No. 3, a light pink of Daybreak type. Mr. Skelton showed three seedlings and a fine deep pink sport of Grace Wilder. C. J. Pennock showed several, one white, a cross between Portia and Lamborn, of fine form, white, slightly tinted with rosy pink; a scarlet, full, on long stiff stem, a cross between Grace Wilder and Portia; and one monstrosity four inches across resembling a peony. E. B. Jennings sent Orange Blossom and Mayflower; both carried well, the former showing particularly well.

Edward Swayne favored the meeting with a humorous selection from "The Two Runaways."

A vote of thanks was extended the Oxford members for their hospitality. C. J.

SITUATIONS, WANTS, FOR SALE

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a young florist of 6 years' experience; 21 years of age; in or near Chicago preferred. Good recommendations. Address FLORIST, care American Florist, Chicago.

SITUATION WANTED—As florist and gardener; private or commercial; 25 years' experience in England and this country. Best of testimonials Would like Pennsylvania or Massachusetts. Address A B, Box 351, Watertown, Jeff Co., N. Y.

SITUATION WANTED—As foreman on commercial place by an experienced gardener; have worked at the business the past 16 years, and am competent to fill a first-class position. A good place and salary required. Address Box 10. care American Florist, Chicago.

SITUATION WANTED—By gardener and florist; thorough, practical man; fully competent in all its branches; care of a gentleman's private or commercial place. Age 35. Roses, carnations, violets a specialty. Very best references Address W. G. NEW'S COMPANY'S STORE, Elizabeth, N. J.

SITUATION WANTED—By a young German; age 27; married, sober and honest; 12 years' experience in all branches of the trade; wishes to take charge of private or commercial place. Around New York or Philadelphia preferred. Position desired to 15th August or 1st September. Address M M, care American Florist, Chicago.

WANTED—At once a steady, sober and reliable gardener and florist. Must be single. State wages. References required. Address C. T. BRIGGS, Avoca, Iowa.

WANTED—A No. 1 experienced rose grower. Steady position to right party. Address, giving references, wages expected, R. J. MENDENHALL, 15 4th St., Minneapolis, Minn.

WANTED—A No. 1 salesman, to travel in seed business Must be experienced. Unexceptional opportunities to right man. Address with references, L. L. MAY & CO., Wholesale Seedsmen, St. Paul, Minn.

WANTED—A strictly sober and reliable man; must be a good grower of cut flowers of all kinds, and familiar with vegetable growing. Wages or interest in the business. A1 opportunity References required. H, 260 Calhoun, Ft. Wayne, Ind.

WANTED—At once, a steady, sober and reliable single man; must understand the growing of general stock, and be willing to work under instruction. References required. Wages $25 to $35 per month and board. Address WM. A. BOCK, North Cambridge, Mass.

FOR SALE—Weathered Boilers, No. 6 and 5, in good condition; also 3000 feet of 4-inch pipe and fittings. Half price. Address MRS. GEO. WALDBAUER, Saginaw, Mich.

FOR SALE—Two greenhouses 69 x 16 each, hot water, sheds, office, etc., on three lots fronting Windsor Ave., convenient to Linwood Cemetery, with electric cars passing frequently. N. METTEL, Dubuque, Iowa.

WANTED.

VERBENA AND PANSY PLANTS in bloom. Send prices to WISCONSIN FLOWER EXCHANGE, Box 87, Milwaukee, Wis.

FOR SALE—Greenhouse Fixtures.

91 Windows several uniform sizes; 18 windows odd sizes; all painted and in good condition; containing about 2,400 feet 8x10 glass. Also water heater and about 850 feet iron pipe with connections and valves. Must be sold to close out business. A splendid opening for a good greenhouse commanding extensive sales of cut flowers and designs. The above fixtures will be sold cheap—at a single sale or in parcels to suit purchasers. For further information, apply to H. FEUND, Executor of Fred Scheibel, dec'd, Madison, Wis.

FOR SALE.

Nine greenhouses containing about 16,000 feet of glass, 15 cent double glass; all houses rebuilt 4 years ago; heated by hot water use city water for watering 2 acres of land, 1 brick dwelling house with 8 rooms, 1 frame house of 4 rooms, stable, horse, harness, wagon, etc. The above property is located in one of the best commercial cities of the west, with a population of over 60,000, and within 1¼ miles of city hall; electric cars pass every 6 minutes direct to city hall and Union depot. The greenhouses are well advertised and enjoy a good patronage at home and from abroad, and now contain a good stock of cut flowers, decorative and bedding plants. Poor health causes owner to retire from business. Would also be willing to sell greenhouses and stock and lease grounds and one dwelling house for a number of years, with privilege to purchase at a fixed price when lease expires. A bargain to a man with small capital. Address BUSINESS, care American Florist, Chicago.



THE INVISIBLE Bouquet Pin

is used and endorsed by well known florists from Maine to Mexico.

(It sells with the Bouquet.)

HANDY and USEFUL

Approved by the Society of American Florists.

A PRACTICAL Bouquet Pin which SAVES TIME both to the florist and his patrons.

75 Cents a GROSS.

GEO. B. WILLCOX, Bay City, Mich.

Send for my PRIMER, free.

Chicago Agent:

E. H. HUNT, 79 LAKE STREET.

THE Wisconsin Flower Exchange,

A corporation doing a general

COMMISSION AND BROKERAGE

Business in Cut Flowers and Florists' Stock.

We adjust the prices on flowers daily.

We have standing orders packed and delivered direct from the grower to the retailer, thus bringing them into closer relationship.

We solicit trade from the public the same as any wholesale institution. All growers and florists of good standing are invited to co-operate.

131 Mason Street, MILWAUKEE, WIS.

R. J. MENDENHALL,

The Pioneer Florist of the Northwest.

—ALL KINDS OF—

CUT FLOWERS IN SEASON,

At Retail and Wholesale

And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist. Send for Catalogue.

R. J. MENDENHALL, MINNEAPOLIS, MINN.

Asparagus Plumosus.

Nice plants, from 3-inch pots, $4.00 per dozen; $30.00 per hundred.

C. S. MASON, FARMINGTON, CONN.

FOR SALE.

Nine greenhouses, containing 16,000 feet, of glass, with 8 lots of land, each 40x175 feet elegant dwelling with 11 rooms; barn, wagons, cart, horse and harnesses. The above property is located in one of the most beautiful western cities, within 5 miles of the city hall, within one square of electric and cable cars; the same will be sold cheap, as the owner is not able to run the same himself. The above houses have only been built 5 years; modernly constructed, 12x18 double thick best quality glass; heated by steam; abundance of water both from wells and cisterns. They are filled with palms, ferns, roses, carnations and bedding plants of all descriptions and all will go with them. Address J M, care American Florist, Chicago.

FOR SALE.

10 shares "*Florists' Exchange*" stock. Apply to

THOMAS YOUNG, JR., 20 W. 24th St., NEW YORK.

Bouvardia Plants

FOR SPRING SETTING.

DAWSONI, white; ELEGANS, salmon pink; PRES. GARFIELD, double pink.

Strong, healthy plants, from 2¼-inch pots, ready May 1st, at $4.00 per 100. Cash with order.

SAM'L NICHOLS, Cohasset, Mass.

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THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO,
(Successor to Vaughan's Cut Flower Dep't.)
All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,
Wholesale Florists,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

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Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
116 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.: Sunday 2 P. M.

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N. E. CORNER
13th & Chestnut Sts.
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N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

GEO. MULLEN,
WHOLESALE FLORIST,
Florists' Supplies Always in Stock.
17 CHAPMAN PLACE,
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Orders by Mail, Telegraph, Telephone or Express promptly filled.

HARDY CUT FERNS
MOSS { SPHAGNUM AND GREEN SHEET.
A 1 IVY LEAVES.
BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.

FLORAL DESIGNS,
The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Wholesale Markets.

Cut Flowers.

BOSTON, May 10.

Roses, Gontier, Niphetos	3.00@ 4 00
" Perle, Sunset	4 00
" Mermets, Brides	4 00@ 6.00
" Jacqs	10.00@17 00
" Brunners	20 00@25 00
Carnations, short	1 00
" long	2.00@ 2.50
Valley	4 00
Narcissus poeticus	3 00
Tulips	3 00
Harrisii lilies	8 00@10.00
Callas	8.00
Stocks	2.00
Asparagus	50.00
Smilax	17 00@20 00
Adiantum	1 00

NEW YORK, May 10.

Roses, Bon Silene	1 00@ 2 00
" Gontiers	1.00@ 3 00
" Perle, Niphetos, Sunset	1 00@ 3 00
" Mermet, Bride Watteville	2 00@ 4 00
" Cusin, Hoste, Bennett	2.00@ 3 00
" La France	2 00@ 5.00
" Albany	2.00@ 5 00
" Beauties	5.00@25.00
" Jacqs	3 00@ 8 00
" Hybrids	3.00@20.00
Carnations, long	1 00@ 1.50
Smilax	10.00@21 00
Mignonette, Narcissus	2 00
Romans	2.00@ 3.00
Valley	2.00@ 4.00
Harrisii	2 00@ 4.00
Violets	.50
Sweet peas	2.00@ 3 00
Adiantums	.50@ 1.00

PHILADELPHIA, May 10

Roses, Brunners	25.00@35 00
" Laings, Luizets	25.00
" Beauties	15.00@25 00
" Mermets, Brides	6 00
" La France, Albany	6 00
" Jacqs	8.00@12.00
" Cusins, Watteville	4 00@ 5.00
" Perles, Niphetos, Gontiers	3 00
Valley	3 00@ 5.00
Carnations	1.25@ 1.50
Sweet peas	2.00
Tulips	2 00@ 4 00
Harrisii	5.00@ 8.00
Smilax	20.00@25 00
Adiantums	1.00

CHICAGO, May 10.

Roses, Perle, Niphetos, Gontier	3.00@ 5 00
" Bon Silenes	3 00
" Mermets, La France, Hoste	4 00@ 5 00
" Bennetts, Dukes, Woottons	4.00@ 6 00
" Albany, Bride	5 00@ 6 00
" Am. Beauties	10.00@25 00
" Jacq	10.00@15 00
Carnations, long	1.00@ 1.50
" short	.75@ 1 00
" long fancy	2.50
Romans, Tulips, Narcissus	3.00@ 4.00
Valley	3 00@ 5 00
Callas	6 00@ 9 00
Harrisii	10.00@12 50
Violets	.75@ 1.00
Adiantums	1 00
Smilax	20.00@25.00

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

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(Successor to C. E. & S. S. PENNOCK,)
Wholesale Florists,
38 S. 16th Street, Philadelphia, Pa.

FRESH BOUQUET GREEN.
12 pounds for $1.00; 50 pounds, $3.50; 100 pounds, $6.00.
J. C. VAUGHAN, CHICAGO.
NEW YORK: 12 Barclay St.

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49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

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34 W. 29TH ST., NEW YORK.
SUCCESSFUL SHIPPING OUR SPECIALTY.

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FLORIST,
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Roses Shipped to all Points. Price list on application.

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CUT FLOWERS.
51 W. 30th St., NEW YORK.
FRAND D. HUNTER. JAMES PURDY, Formerly 112 W. 40th St

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4TH & WALNUT STREETS,
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A complete line of Wire Designs.

CYCAS LEAVES, Fresh, $1.00 each.
J. C. VAUGHAN, BOX 688, CHICAGO.

ENGLISH IVY.
In 2½-inch pots, cheap.
Send for price list of Bedding plants, etc.
JOS. H. CUNNINGHAM,
Delaware, Ohio.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

Philadelphia.

At high noon on Saturday, April 30, Miss Blanche Simons, daughter of Mrs. Peter B. Simons, of San Francisco, was united in marriage to Mr. W. Atlee Burpee in the West Spruce Street Presbyterian Church. A large crowd filled the church, fifteen hundred invitations having been issued for the ceremony. The floral decorations were the most elaborate and unique ever seen within a church edifice for a wedding. Every window was a mass of white lilies and other tall blooming plants. The galleries were draped beautifully with heavy green garlands. The pillars were trimmed with quantities of Easter lilies, while the railing around the pulpit was covered with smilax, studded with Bride roses. A profusion of pink roses covered the posts at either end. Back of the desk a mass of white Easter lilies and pink hydrangeas were banked up fully twenty feet from the floor, and the base extending across the platform was filled in with fine greens and roses. The bridal procession was headed by six ushers: Mr. William H. Earl, Mr. Warner Harper, Mr. Eldridge Brown, Mr. Charles Junkin, Dr. William Drysdale and Mr. Charles Lee. Best man, Mr. A. Scott.

The six bridesmaids were Miss Drysdale, Miss Helen Burpee, Miss Tucker, of Troy, N. Y.; Miss Mary Ashmead, Miss Sheaff and Miss Reed.

The bride looked extremely well. Her dress was rich white silk entirely covered with soft white chiffon. Her veil was of tulle, falling in graceful folds to the end of the train. Her flowers were Bride roses. Rev. Duffield Ashmead, the bride's uncle, came in with her and gave her away.

A very small breakfast followed the ceremony for the intimate families at 1724 Chestnut street, the home of the bride, after which Mr. and Mrs. Burpee left for New York. They sailed on May 7 on the Werra for a three months' trip abroad. On their return their home will be at 1332 Arch street.

The wedding gifts to the bride were very numerous and costly, amounting to several hundred articles in silver, gold, ivory, onyx and rare bric-a-brac.

ECHOES.

It is reported that the marriage of the best man, Alexander Scott, is not far off. But the most astonishing news is that gay Mr. Eldridge Brown will soon join the band as well! Who would have thought it!

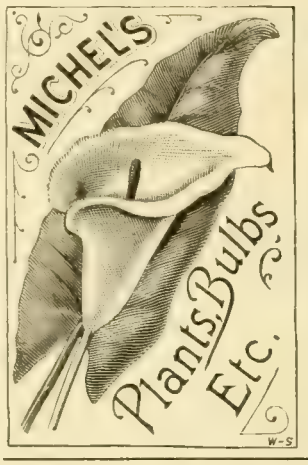
Mr. Henry Maule certainly cut a dashing figure in his Prince Albert.

Owing to the stormy weather on Friday several New York guests did not arrive.

The Postage on Seeds for Canada.

Postmaster Van Cott has been advised by the Postoffice Department that, by the terms of the postal convention between the United States and Canada, the rate of postage on seeds, plants, cuttings, roots and scions is one cent for each ounce or fraction thereof. Hitherto they have been permitted to pass at half the above rate—one cent for each two ounces. The postage must be prepaid in full on packages containing those articles, or they will not be forwarded.—*N. Y. Tribune, May 5.*

NEW YORK.—The seedsmen all report sales as up to the average of previous years. Robt. George, Painesville, O., M. S. Willard, of Comstock, Ferre & Co., Wethersfield, Conn., and Jas. Currie, Milwaukee, Wis., are visitors in town this week.



Write for wholesale list.

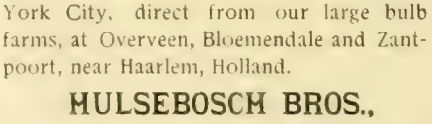
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We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendale and Zantpoort, near Haarlem, Holland.

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Ask for General Wholesale Catalogue.



BULBS.

Closest IMPORT rates f. o. b New York City can be had from our N. Y. office, 12 Barclay St. We request the opportunity of estimating for shipment from New York.

J. C. VAUGHAN,
And 12 Barclay Street, NEW YORK. CHICAGO.

OFFERS

Will be received for about 100,000 Harrisii Bulbs, all sizes; being balance for sale this season.

The undersigned is the only large grower in Bermuda with pure and unmixed stock.

No Flowers are ever shipped.

GEO. W. WEST, Shelly Bay, Bermuda.

Cycas Revoluta.

Selected stems, all sizes, just arrived in splendid condition. Lowest quotations by letter. Reduction on large quantities.

F. W. O. SCHMITZ & CO.,
JERSEY CITY, N. J.
STORE: 60 Barclay Street, New York City, N. Y.

OUR CUT FLOWER BUSINESS

Demands all our growing capacity, we have therefore decided to close out our entire stock of plants this season. We start the ball rolling with the following. Speak quick if you want them:

	Per 100
Dahlias, single tubers	$ 3.00
Tuberous Begonias, from the finest European collections	5.00
Clematis, pot grown, 8-inch pots	40.00
Hydrangea Thos. Hogg, we have a lot in the right condition for Decoration day, 6-inch,	20.00
Rose, American Beauty, splendid clean young stock	8.00
Fuchsias, all the standard sorts ready for spring sales, 4-inch	8.00
Washingtonia Robusta, this is a splendid easily and rapid growing palm, it takes but a short time to make a good specimen. Should be in every greenhouse. We have a large lot of it in 4-inch pots, and in order to reduce stock will sell a quantity at	20.00
Latania Borbonica, we also have more of this elegant palm than we need and will sell a few 5 and 6-in. stuff in fine condition	100.00
Chamærops Humilis, will sell a quantity of those for a short time, 4-inch stock.	15.00
Marguerites, large flowering white, bushes 2½ to 3½ feet high	15.00
Carnations, 5-inch, in bloom	15.00
Callas, 5-inch pots	9.00
" 6-inch pots	11.00
" 8-inch pots	15.00
" strong clumps from bed, not divided	25.00

Chrysanthemums. We have a large stock of the select varieties that are most desirable for the commercial florist. Give us a list of what you want in Chrysanths and let us make you a price on it.

Cut Flowers.

For the balance of this month we offer

ROSES—Brides and Mermets	3.00
" La France	5.00
" American Beauty	8.00
Carnations—Garfield, long	1.50
" Garfield, short	1.00
" Hinze's White, long	1.50
" Hinze's White, short	1.00

Bear in mind this stock is all grown on the place and handled but once. Cut flower buyers know the importance of this. Stock guaranteed A1. No charge for packing.

Vases in Iron, Rustic, etc., best makes, will sell for a song to close out. Window Boxes, we still have a quantity left if you want any this is the chance of a lifetime. Price 1c. per lineal inch in length.

ADIANTUM CAPILLUS VENERIS—

The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.

Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it has many aliases. If you are short of room now we will book your order and ship any time up to May 15th. Price, strong plants, $8.00 per 100.

JOHN IRVINE CO.,
BAY CITY, MICH.

FORCING BULBS

TRY US ON PRICES.
QUALITY OF STOCK WILL SUIT.

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO.

DUTCH BULBS.
JOHN BARTH BOS,
OVERVEEN, near Haarlem, HOLLAND.
ESTABLISHED 1868.
Large grower of Hyacinths, Tulips, Narcissus, Crocus, Lilies, etc.
Before ordering bulbs, write me for a catalogue.

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AND ALL OTHER BULBS FOR FORCING AND OUTDOOR, IN VERY FINE QUALITY, AT REASONABLE RATES.

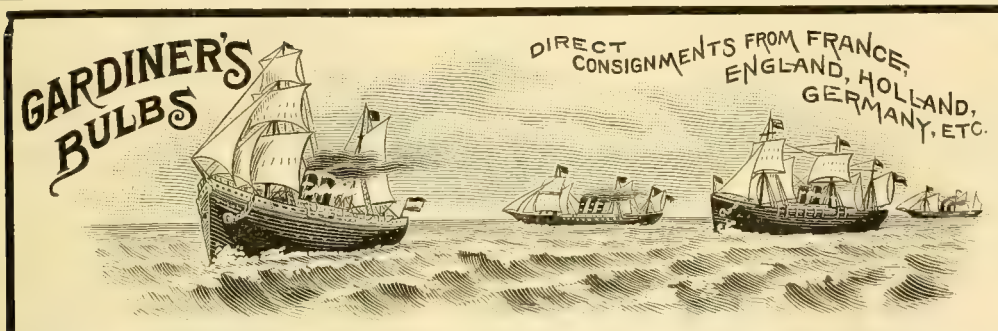
If any of our friends have not received a copy of our Catalogue of 1892, should write for one at once.

Please ORDER ON RECEIPT of our Catalogue.

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, **HOLLAND.**



WE can give you the inside track on forcing bulbs, both in quality and price. Write us at once. Special Wholesale Price List now ready. Don't fool with poor stock. Get your supplies from us.

J. GARDINER & CO.

BULB GROWERS AND IMPORTERS,

PHILADELPHIA, PA.

ROMAN HYACINTHS, PAPER WHITES,

Lilium Harrisii, Berlin Pips Lily Valley, Tuberoses, Azalea Indica, etc.

PRICES QUOTED and ORDERS BOOKED FOR SUMMER AND FALL DELIVERY.

C. H. JOOSTEN, Importer,

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BULBS. BULBS.

We book orders now for

Lilium Auratum, Speciosum Album, Speciosum Rubrum, Longiflorum, etc., Chinese Narcissus and CALLA BULBS.

Cycas revoluta, fine imported stems, 10 cents per lb. Araucarias and Australian Palm Seeds.

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303 to 312 Wayne St., San Francisco, Cal.

C. G. VAN TUBERGEN, Jr.,

HAARLEM, HOLLAND,

Grower and cultivator of choice Dutch Bulbs, Hyacinths, Tulips, etc., etc.; also of various bulbous plants, guaranteed true to name. Beautiful and attractive for gardens and conservatories. Orders solicited. Catalogues free on application to his agents,

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Daffodils. Daffodils. Daffodils.

Nothing can be more simply mentioned through the AMERICAN FLORIST than a statement that Wm. Baylor Hartland, Cork Ireland, can supply direct via Liverpool, Daffodil Bulbs prepared for forcing purposes in the States. References to some of the largest buyers on application, and bulb delivery guaranteed in August. A preliminary offer for Von sion, &c., post free. Packing, etc. on the most approved method for a long journey.

WM. BAYLOR HARTLAND, Ard-Caires, Cork, Ireland.

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R. VAN DER SCHOOT & SON,

HILLEGOM, - HOLLAND,

Largest Growers of

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.

HEADQUARTERS FOR HIGH GRADE FORCING BULBS.

Wholesale Importers should write us for Prices.

OUR NEW TRADE LIST NOW READY.



TRY **DREER'S GARDEN SEEDS**

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

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To Seed Growers.

I want to contract with reliable growers for flower and vegetable seeds, and tuberose and other bulbs. Write, mentioning your specialties.

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BUY YOUR

LILY OF THE VALLEY

FROM A RELIABLE QUARTER.

I offer for delivery from Nov. 15 to Dec. 15, the **VERY BEST, THOROUGHLY MATURED, TESTED HAMBURG FORCING PIPS,** f. o. b. cars Baltimore.

$1.25 per hundred.
$5.00 per five hundred
$8 50 per thousand.
$80.00 per ten thousand

Order now and be sure you will be satisfied.

Special prices for larger orders.

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.

To the readers of the AMERICAN FLORIST:

By acknowledging that you saw this in the AMERICAN FLORIST I will for the next two weeks from the date of this paper, send you for $5.00, 1000 Rooted Coleus Cuttings of at least 25 kinds; the selection of sorts to remain with us. No cull stock. Cash with order.

J. E. FELTHOUSEN, Florist, Schenectady, N. Y.

SPECIAL OFFER. Per 100

Var. Rose Geraniums, 2½ inch..... $ 5.00
Begonia Manicata aurea, 2½-inch..... 10.00
Begonia Rex, assorted..... 4.00
Bouvardia Elegans and Davisonii, root cuttings from flats..... 1.0

JOS. E. BONSALL & SON, Salem, O.

Baltimore.

The weather has killed trade this week. Two or three days of heat that was harder to bear than midsummer, two drenching rains, followed by wind and preceded by all pervading clouds of dust made it up, and the little good weather had to be utilized by the ladies to do their spring shopping.

Such a glut of flowers has not been for some time, particularly of roses. Everybody had enough, and the growers from the county and Annapolis and our neighbor Philadelphia, too—for she sends a man over weekly to help us out in the rose line—were all sufferers.

The Exchange was piled up with really good stuff, for which no reasonable offer was refused and the only thing in the market that seemed to be able to "get a move on it" was valley, which for a while was rather scarce, but the quantity of other stuff made even that go slow at last.

Baltimore may get left on base ball, but she "gets there with both feet" when it is a question of bowling. Ask the brethren from Washington if it isn't true. Ask them, too, while about it, if getting left by the last train was the only way they experienced that pleasant sensation last week. Cock-a-doodle-do-o-o. Three cheers and a tiger for Bauer and Wiedey.

Mr. Chas. Wagner had a very fine chrysanthemum bloom with him when last in town, one of the newer varieties, and says he has no difficulty in getting them at this season. Fancy having another chrysanthemum season at Easter! Would it not be an improvement on hydrangeas and lilies? MACK.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

CLEMATIS.

Strong heavy plants.....doz. $4.00
Lighter, equal to imported.....doz. 3.00
ROSES—H. P. 2 year, own roots, choice kinds.....per 100 10.00
DAHLIAS—50 vars., whole roots, proved sorts.....per 100 8.00
SMILAX SEEDLINGS—Beautiful stocky plants, for immediate potting, 75 cts per 100; per 1000, $6.00.

F. A. BALLER, Bloomington, Ill.

Send for Catalogue of
JAPAN BULBS, SEEDS, AND SHRUBS.
ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878 SAN FRANCISCO, CAL.

Orchids.

Established and Fresh Imported—Specially Cattleyas; very useful for cut flowers, at greatly reduced prices.
Best quality of Orchid Peat. Write for price list.
FREDERICK MAU,
P. O. Box 322. SOUTH ORANGE, N. J.

Orchids. Orchids.

Surplus stock, in 10 showily flowered, easily grown varieties. Strong, clean.
100 PLANTS FOR $25.
BRACKENRIDGE & CO.,
Established 1854. GOVANSTOWN, Md.

ROOTED CARNATIONS.

HINZE'S WHITE.....Per 1000, $10 00; Per 100 $1 25
Cash with order. Cuttings put in Jan. 1, on Feb. 8 99 per cent. were well rooted.
DE WITT BROS., BRISTOL, PA.

CATTLEYA TRIANÆ.

The Grandest Importation ever Received of this most useful Orchid for Florists' purposes.

SEND FOR SPECIAL PRICE, OR CALL AND EXAMINE STOCK.

PITCHER & MANDA,
UNITED STATES NURSERIES, Short Hills, N. J.

ROOTED CUTTINGS.

CARNATIONS.

LIZZIE McGOWAN.—More good and fewer poor points than any white Carnation ever sent out. Strong well rooted cuttings at $2.00 per 100.
PANSIES.—Good stocky little plants in bud and bloom, at $2.00 per 100, or $15.00 per 1000. 250 at 1000 rates. Almost every florist knows how good the strain is.
CANNA.—Emile Leclaire, as pretty as an orchid, yellow with brown markings, $3.50 per 1000.
L. B. 338. ALBERT M. HERR, LANCASTER, PA.

CARNATIONS. Finest NOVELTIES of the year, and best Commercial varieties.
COLEUS. Best assortment in the country. All the good Bedders.
"JOHN RALPH." The new Fancy Coleus is a gem. Fine color and foliage. Pot plants, 6 for $1.
GET MY LIST BEFORE YOU PURCHASE.
ALEX. McBRIDE, Alplaus, N. Y.
— ROOTED CUTTINGS ONLY. —

50,000
ROOTED CUTTINGS OF CARNATIONS

Ready now for immediate delivery, such as Wilder, Portia, Silver Spray, Lamborn, Tidal Wave, Mrs. Fisher, J. J. Harrison, Century, Florence, and 25 other standard varieties, all in splendid condition.
Also an unlimited quantity of pips of the above varieties. Send for price list.
JOSEPH RENARD, Unionville, Chester Co., Pa.

DO YOU GROW CARNATIONS?

We have Ben Hur, Golden Triumph, Puritan, Aurora, Pearl, Grace Darling, Silver Spray, Tidal Wave, Mrs Fisher, Lizzie McGowan, Daybreak, Nancy Hanks and seventy other varieties. Send for trade list.
GEO HANCOCK. Grand Haven, Mich.

SEEDLING **CARNATIONS** WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN, besides the best novelties and a full list of standard sorts.
C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

Tuberous Begonias.

SEEDLING PLANTS.
Single mixed.....per 100 $2 50
Separate colors..... " 3.00
BY MAIL.
Order now, they will stand better than later.
BRAUER & RICHTER, McConnelsville, O.

IPOMEA PANDURATA.

(The New Day-Blooming Moon Flower.)
No. 1 strong roots, $3 00 per 100 50 at 100 rate
" " $25 00 per 1000—500 at 1000 rate
Geraniums, 3½-inch pots, assrt., $4 00 per 100.
" 2½-inch pots, assrt., $3.00 per 100.
Centaurea gymnocarpa, pot plants, $2.00 per 100.
JAMES FROST, Greenville, Darke Co., Ohio.

CHINESE PRIMROSE SEED.

Grown from the finest strains in cultivation. All large fringed; flowers and brilliant colors.
PRICES:—Per packet.....20 cts.
Six packets for.....$1 00
Fourteen pkts. for..2.00

Pkt. No.	SINGLE FLOWERING.	Seeds
1	White	50
2	Dark red	50
3	Bright rose	50
4	Dark crimson, spotted white	40
5	Magnifica, white	40
6	White, striped and flaked with red	50
7	White, flaked with red, large yellow center	40
8	Cheswick, very dark red	50
9	Carter's blue, fine	50
10	Fern leaved, mixed colors	20
11	Crested leaved, flowers pink and white	50
12	Many varieties mixed	60
	DOUBLE FLOWERING.	
13	Bright rose	20
14	Pure white	20
15	15 varieties, single and double, mixed, $1 for	400

Per 5000 seeds, leading single varieties, $10.

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NURSERY CO.,
BOSKOOP, HOLLAND,
ROSES, CLEMATIS, AZALEAS,
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Always on hand in New York from November until May.
ADDRESS P. OUWERKERK,
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CARNATIONS—Buttercup, 2-inch.....4 cts
" Assorted, 2-inch.....3 cts
DAHLIAS—Choice assrt., whole roots.....6 cts
MONTHLY ROSES—For retail, 3 & 3½ in. pots.....6 cts
New Gen'l Jacq and Countess of Murinais Roses left, dormant, 2 year.
BOUVARDIA, from flats, $1 50 per 100.
McCREA & COLE, Battle Creek, Mich.

Thursday, May 19th.—SALE—Thursday, May 19th.

JUST ARRIVED!

From SANDER & CO., St. Albans, England,

500 CATTLEYA LABIATA, THE TRUE OLD AUTUMN FLOWERING VARIETY, WELL LEAVED AND IN SPLENDID ORDER.

A GRAND NEW ONCIDIUM, ONCIDIUM GRAVESIANUM, 200 MASSES IN PERFECT HEALTH.

It bears bold, richly colored blossoms in great profusion on many branched spikes in various shades of yellow and brown.

The Elephant Moth Dendrobe DENDROBIUM PHALÆNOPSIS SCHRODERIANUM.
A grand species for cutting.

The lovely white BURLINGTONIA PUBESCENS.

A new Bulbophyllum.
Miltonia illustris and Moreliana.
Brassavola, probably new.
Oncidium barbatum.
Calanthe Sandhurtiana.

Lycaste Skinnerii alba.
Dendrobium hybridum cassiope.
Cypripedium Wallaceii.
CATTLEYA VICTORIA REGIA, a grand new Cattleya.

A fine lot of Dendrobium Wardianum, D nobile, D Dalhousianum and many other Orchids, all in fine order. Many of the above will prove most useful for cutting and exhibition purposes.

Catalogues on application

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THURSDAY, MAY 19, 11 O'CLOCK A. M.

A Few Fine Plants.

	Pots.	Each
Dracæna Lindeni, well colored	6-in.	$2.00
" " " "	4-in.	1.00
" Massangeana	4-in.	1.00
Aralia Sieboldi variegata	5-in.	1.00
Cycas circinalis glauca	5-in.	1.00
Gardenia Florida, *full of buds*	5-in.	
per dozen, $3.00 to $5.00.		
Alocasia Jenningsi, Purpurea, Violacea		.50

Water Lilies.

Nymphæa **Zanzibarensis, Azurea, Dentata, Devoniensis,** mixed seedlings, 4 months old. Safely packed in damp moss, free by mail, ready to plant outside in a few week, $3.00 per dozen.

JOHN H. LEY,
ANACOSTIA, WASHINGTON, D. C.

AGERATUM
White and Blue, 50 cts. per 100.

ALTERNANTHERA
P. Major and Aurea Nana, 50c. per 100

HELIOTROPE
White and Purple, 60 cts. per 100.

Rooted cuttings by mail prepaid.

CASH WITH ORDER.

S. O. STREBY,
Lock Box 77. *UPPER SANDUSKY, OHIO.*

20,000 Verbenas.

THE CHOICEST VARIETIES IN CULTIVATION. Fine pot plants $2.50 per 100; $20 per 1000.

NO RUST OR MILDEW.

15,000 ALTERNANTHERAS.

PARONYCHIOIDES MAJOR and AUREA NANA, strong pot plants, $3 per 100; $25 per 1000. Packed light and satisfaction guaranteed. Send for circular.

J. L. DILLON, Bloomsburg, Pa.

Verbenas

IN BUD AND BLOOM.

	Per 100	Per 1000
Mammoths—Large fine flowers	$3 00	$25 00
General Collection—Good collection	2.50	22 00

Roses. Fine, healthy stock from 2½-inch pots. Waban, Pearl, Mermet, Mme. Hoste, Sunset, Mme. Cusin, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, S. d'un Ami... 5.00 45.00

H. P. Roses, in bud and bloom, 4 and 5-inch pots, strong plants..... $15 to 25 00
Tea Roses, in bud and bloom, 4 & 5-in. pots, strong plants.....$10 to 15 00
Alternantheras, 4 vars., strong plants.. 4.00
Cannas, strong started bulbs, 4-in. pots. 8 00
Tuberoses, " " 4-in. pots. 6.00
Dracæna indivisa, strong plants..... 40.00

☞ Send for price list of other stock.

WOOD BROTHERS,
FISHKILL, N. Y

VERBENAS.

My Verbenas are perfectly healthy and include the Mammoths. From 2½-inch pots, $2.50 per 100; $20.00 per 1000.

PANSIES AND OTHER STOCK.

Pansies, fine clumps in bloom, $3 per 100; $25 per 1000.
Pansies, second size, in bloom, $2 per 100; $15 per 1000.
Chrysanthemums, rooted cuttings, $2.00 per 100; $15.00 per 1000.

Address **J. G BURROW, Fishkill, N Y.**

BEDDING PLANTS.

	Per 100
BEGONIAS, asst., 4-inch	$12.00
FUCHSIAS, 3-inch, $7.00; 4-inch	12.00
GERANIUMS, asst., 3-inch	6.00
" " 4-inch	10 00
IVY LEAF GERANIUMS, asst., 4-inch	12.50

Cash with order.

Chalmers & Rose, Omaha, Neb.

ROOTED CUTTINGS

FUCHSIAS. Storm King, Phenominal, Purple Prince, Elm City, Noveau Mastadonte, Black Prince, Chas. Blanc, Minnesota, W. E. Wait, $1.10 per 100 by mail.

HENDERSON'S NEW RED COLEUS

FIRE CREST.

I have a few plants in 2¼-inch pots to offer at 60 cents per dozen.

CASH OR C. O. D.

SEND FOR LIST.

I will have a big batch of COLEUS in pots to offer after May 20th, at very low prices.

S. B. FIELD, Roselle, N. J.

BOUVARDIAS,	$4.00
VERBENAS,	3.00
HYDRANGEAS,	5.00

DRACÆNAS Indivisa, Latania Borbonica.

WILLIAM A. BOCK, North Cambridge, Mass.

FOR SALE.

APPLE GERANIUM PLANTS.

We have a large stock of young plants of Apple Geranium in 1 and 2-inch pots. They can be had for the next three weeks at $8.00 per 100. Address

BROTHERS' INDUSTRIAL GARDENS,
MOBILE ALA.

Toronto.

After all spring is two weeks behind time this year and even yet the weather has not altogether lost the winter chill, though with the exception of an odd night or two we do not have actual frost. The chestnut tree buds are all ready to burst into leaf as soon as the clerk of the weather turns on the warm tap.

Do other cities have any difficulty in getting a competent judge for their chrysanthemum show? The shows all over the country being held at about the same time makes it almost imperative for people to stay at home at that time, and as it is generally considered desirable to have a judge from another place there seems to be a dead-lock. Last year our association appointed 15 local men as judges and this under the circumstances filled the bill pretty satisfactorily, but it is a very cumbersome plan and difficult to carry out properly and I believe nearly all the members are in favor of the single judge and point system, but the question is where to get the judge. How would it do for the executive committee of the S. A. F. to appoint judges for the different states and provinces or for certain districts?

A prominent gardener in this city in the course of conversation the other day put the following question: Why does not some one advocate the formation of a grand North American horticultural society with sections for florists, gardeners, nurserymen, seedsmen, carnationists, rosierists, etc., somewhat after the plan of the National Education Association? I asked him why he did not do it himself. "Well," he replied, "if I had not seen in the FLORIST lately how satisfied the S. A. F. was with matters as they stand I would, and besides I guess I am too 'small potatoes' to make them alter their course." I told him I did not think so, but that the present time was the best time to formulate some such scheme, as the World's Fair was giving every one big ideas. "Well," he said, "you mention it in your notes and if I don't do anything perhaps some one else will." Now here is a chance for a man to have his name emblazoned in the pages of history for future generations to talk about. E.

YOU MAY not care a copper for the directory list proper in our new trade directory and reference book, but you really do need the reference book part, whether you do a wholesale business or not.

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The trustees having in charge the erection of the Schenley Park Greenhouses presented by Henry Phipps, Jr., of Pittsburgh, have received a number of plans and bids from prominent builders for the erection of the houses. The most notable are those by Mr. Silsbee, the architect of the Lincoln Park Greenhouses, at Chicago, Lord & Burnham and Thos. W. Weathered's Sons.

Mr. Silsbee's plan contemplates a palm house 208x68 and adjoining houses for show purposes.

Lord & Burnham's plan shows a frontage of 400 feet, comprising a palm house 133x60, four show houses each 104x30, fern house and aquatic house each 100x35, orchid show house and Victoria regia house each 50x60. The front is of stone, turretted, and contains offices, etc.

Weathered's plan shows 460 feet front. It provides for a center palm house 150x60 and 59 feet high. Four show houses 106x25 each, fern house and aquatic house each 108x35. Victoria regia and show orchid house each 50x50. In this plan the main building is castle-like, of stone, and contains offices, work rooms, etc. The Pittsburgh papers pronounce it to be the most graceful of all the proposed structures.

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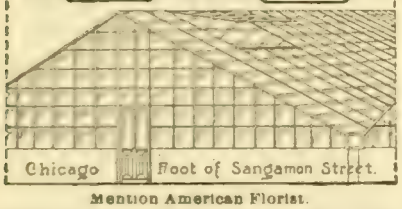
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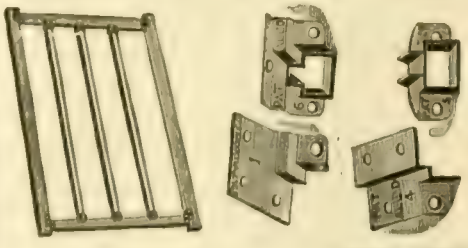
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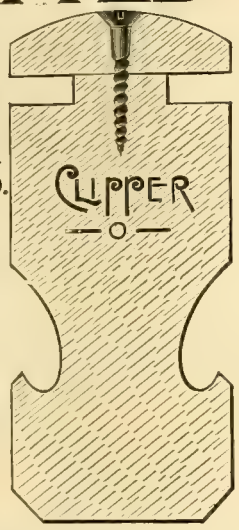
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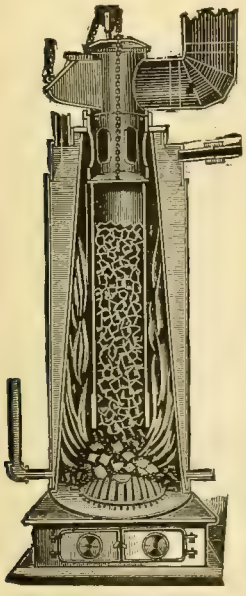
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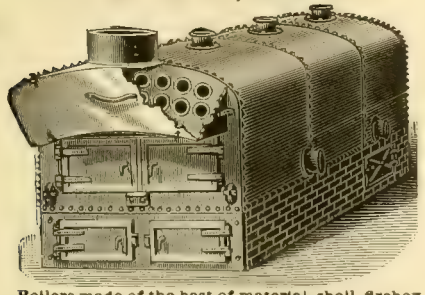
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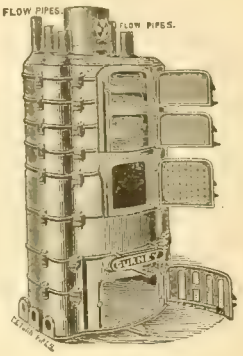
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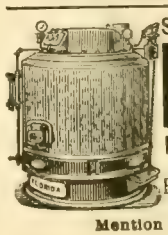


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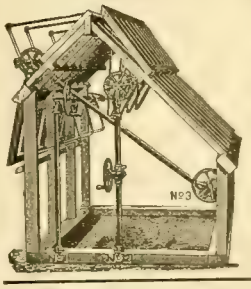
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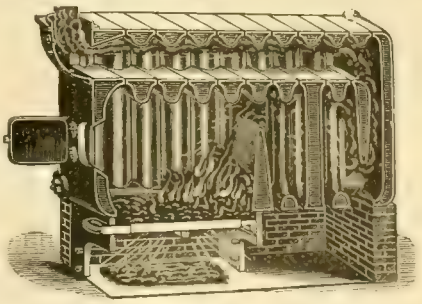
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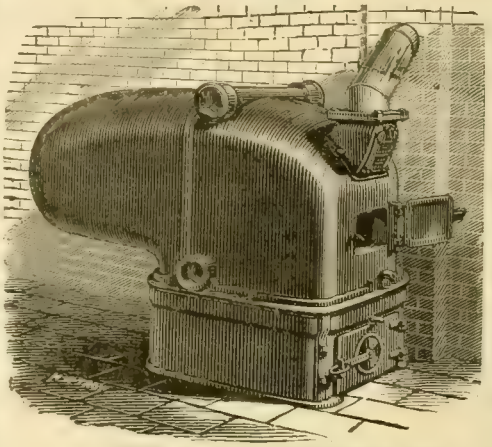
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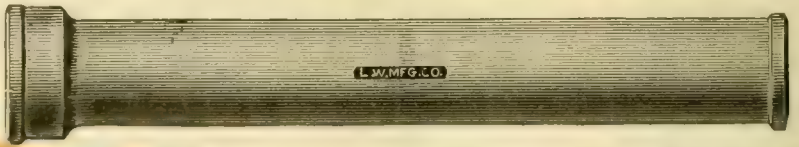
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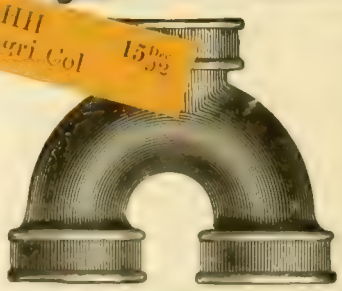
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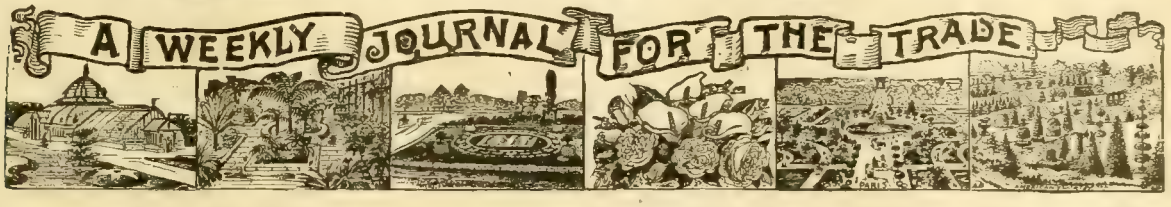
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THE AMERICAN FLORIST

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DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

Tendencies of Retail Trade.

It is well known among retailers that every locality has its own peculiarities in the plant trade; an article constantly demanded in one place may be scarcely salable in another. This does not apply to those plants which may be regarded as the staff of life to the bedding trade—geraniums, coleus, verbenas, and so on—but is specially true of less common things. The dealer must consider his market; the class of customers influences the class of plants.

In suburban districts, where people are building homes and laying out grounds there is a decided increase in the use of ornamental trees and shrubs, and also for plants to be used in permanent situations. Naturally such plants call for a good deal of space on the part of the dealer, but it will be found necessary in many places, where the dealer is expected to be both nurseryman and florist.

The FLORIST has mentioned a good many shrubs lately which are especially useful in this trade, preference usually being given to early flowering sorts. Exochorda grandiflora, which is not yet common, appears to be much admired; at time of writing it is making a beautiful show with us, with its quantities of anemone-like flowers. Hardy rhododendrons, too, we find in demand, and there is a steady appreciation of the Japanese maples. All these fine decorative shrubs appear to be largely called for year by year as people become more educated in the line of landscape art, and they are also required in good cemetery work.

Among salable plants which are not extensively grown may be mentioned the pelargoniums—Lady Washington geraniums, as the amateurs usually call them. They make extremely showy pot plants, and will be found very desirable in places where there are many foreigners. English and German buyers seem particularly fond of them, and few greenhouse plants are calculated to make a more brilliant show than well-grown pelargoniums.

It is generally conceded that the rose is the most popular of all flowers, and most retailers find that the plants are always in request, the taste for hardy bedding roses increasing yearly. Many amateurs like the tea roses as house plants, too, though they are rarely a genuine success under such conditions. Moss and climbing roses are often called for in this class of trade, hardiness always being a prime requisite. One of the new outdoor roses which is declared a grand success is Summer Queen; its color is very similar to Mrs. Jno. Laing, and it is a most prolific bloomer. The color proves very attractive, those delicate pinks being always popular, and its hardiness adds to its value. A good many of the older roses of the hybrid remontant type are always in request in the bedding trade, especially where people are making permanent borders; they still hold their own in competition with the newer sorts. No matter how many newer crimsons are brought out there is always a demand for Jacqueminot and its allies; the virtue of the Jacq rose has become a proverb.

It is noticeable that the carnation grows much in public favor among small buyers. The popularity of the flower itself is phenomenal while the number of carnation fanciers who buy a few plants of each variety is certainly on the increase. One prominent wholesale grower says the amateur buyers are rather an exasperation; they send for his trade list, and then send for a hundred plants running through the entire list—three of one variety, three of another, half a dozen of a third and so on. Of course the buyer expects to get them at wholesale rates, when he should properly send his order to a retailer.

Probably the popular taste for carnations is increased by the improvement in varieties, to say nothing of the encouragement given such taste by the Carnation Society. However, the retailer who wishes to sell pot plants must naturally go in for an assortment of varieties, giving as wide a range of colors as possible. In the long run preference may be given to self colors rather than blotched or striped sorts, but a good many ladies admire the striped carnations, especially when the colors are clear and distinct, as for example, American Flag. So large a proportion of the amateur buyers is composed of women that the long-headed retailer takes their fancies into account. Good pink carnations take well with this class of trade; Mrs. L. Fawcett is a very attractive one, the color being, in milliner's phrase, real shrimp pink. Nellie Lewis is very taking—pink striped with carmine, while Daybreak is a most attractive pink. Among deeper sorts J. R. Freeman may be commended for its rich ruby crimson. Of course in selling these carnations as pot plants the foliage must be well cared for; dead leaves or slovenly habit spoil the appearance entirely. As in the case of much other soft-wooded stuff, the retailers usually strike but few carnations themselves, preferring to buy them in the form of rooted cuttings, a plan by which they economize both space and labor. In this respect, as in many others, the trade has changed greatly within a short time.

In a miscellaneous collection there is usually a demand for good plants of the succulents; they are cheap and attractive, many being particularly useful in vases and baskets. Mesembryanthemum spectabile is a good basket plant, the thick leaves having a drooping habit, while the large magenta flowers, suggestive of an aster, are very showy. The little variegated mesembryanthemum commonly known as the Ice Plant is an-

other attractive one, and several of the crassulas will also be found valuable. The echeverias and sempervivums are necessary in a locality where there is a taste for carpet bedding, and they make a useful class for borders. In the east it seems as if succulents are less used than they were some years ago, partly, perhaps, because there is less carpet bedding.

It is a question with many of the smaller dealers how far they may indulge in plants of the hardy herbaceous section. It is a prevalent opinion that there is but little money in such things; still it appears a growing demand, like that for shrubs. Some of the herbaceous stuff seems absolutely needed where there is park or cemetery trade, and it does a good deal to brighten the spring gardens, like the early bulbs. Without dipping very deeply into such trade there is little doubt that many will find it an advantage to keep some herbaceous stock.

A thing noted this spring, which gives promise of popularity, is a mixed strain of pyrethrums; the flowers run through a variety of shades, white, pink, crimson and yellow, and the plant soon throws up a number of flowering stems, which give it a handsome appearance in the pot. Seems likely to prove salable around Decoration Day—it is perfectly hardy. Some of the white pyrethrums have proved very useful in bedding. Another handy thing to have is a really good strain of petunias. There is no excuse for growing poor ones, for there are many excellent strains, especially the double fringed sorts and they are rarely neglected in the retail trade.

In most towns of any size, especially in the manufacturing districts, there is a large trade among flower peddlers; they buy of the local dealers and reach a class of customers the stores or greenhouses do not touch. They are not restricted to cheaper plants by any means, and it is surprising to note the quantity of stuff they sell. After Easter their wagons are gay with hydrangeas and other flowering stuff, and their trade continues until the bedding season is over.

EMILY LOUISE TAPLIN.

Society of American Florists.

Reports from all directions indicate that the attendance at Washington next August will be very large. The number of ladies attending this convention will be the largest on record. Full arrangements have been made through the Trunk Line Committee for the usual reduced rate of fare, i. e.—one fare and a third on the certificate plan for all members traveling over the roads represented in that Committee, and it is expected that the other passenger committees will co-operate and grant a similar concession.

It is not too early for the clubs and other organizations in various parts of the country to agitate the question of route, number intending to go, and other matters, which when attended to in time and by the right parties, are so conducive to personal comfort and social enjoyment on the trip.

Neither is it too early to forward to Secretary Stewart the usual annual membership dues of $3. Do it now while you think of it and then it is off your mind. And if your dues for last year are still owing remember that a remittance of $6 will be necessary to entitle you to the privileges of membership at the Washington meeting, as arrearages must in all cases be paid.

The Convention Souvenir which the Washington brethren are having prepared, a copy of which will be presented to every member of the S. A. F., is a handsomely bound volume of over 200 pages. It contains a map of the city and 46 engravings of prominent buildings and other interesting features, besides a set of 24 fine photographic views; 46 pages are devoted to a description of the capitol, its different apartments and the paintings and sculpture which adorn it; the President's House, State, Treasury, Navy, War and other departments take up 28 pages; and much space is given to full and interesting descriptions of the reservations, monuments, squares, cemeteries, hotels, places of amusement, schools and public works, as well as the intensely interesting suburbs Georgetown, Alexandria, Arlington and Mt. Vernon. The Washington members are deserving of great credit for the completeness and beauty of the work, and are to be congratulated on the readiness with which their offer of a few pages for advertising purposes was accepted by the trade. There is still a little advertising space left for late comers.

De Ideal.

[An essay delivered before the Blacktown Florist Club by Prof. Chalkline.]



Wh' wha' dat 'mark I heahs in de reah seat? Wha' dat you says? "Dis kyarnation in de peach blow vauze on de rostrum hab not been registahed." Das all right. Dat p'tic'lar variety am not to be foun' on de books ob de Kyarnation S'ciety, but I tells you now it am in de minds ob de membahs ob dat 'sociation an' doan' you done fergot it. Keep in you' min' de fac' dat some wery fine results hab been obtained in dis yere worl' widout habin' gone frough de formiality ob registration. Registration am de propah capah, ob course, but it doan' prove nuffin'. You got to see de plant summahed an' wintahed befo' you know if he any use to you, an' it am de wise man dat take a hoss on trial a few weeks befo' he done swap he good dollahs for de nag.

But de gemmen ob de Club will pahdon dis digresssion.

I desiah to make a few 'marks to you dis chenin' on "De Ideal." Dar am many kin's ob ideals. We's all a'workin' for sumfin'. We may not get 'zac'ly what we's stribin' for, but we stan' a good chance ob makin' some progress in dat d'rection if we puts our min's on de subjec' an' humps for it.

Now, dar's Brer Lonsdale. Nice man, dat. An' he am monkeyin' wif' de kyarnation. Wh' wha's he a'doin'? Wha's he a'doin'? I asks, "Hab he an ideal?" You can 'pend on it he jes' hab, but he am too modes' to 'clare it. But you jes keep you' eye on 'im. He know whar he wants to get an' doan' you be 'sprised when he does.

Dat am de right kin' ob a man. But dar am 'nudder kin' ob a man dat I allus has my doubts 'bout. De moke what sud'nly come out wif a nice new rose, or a kyarnation dat am wery fine, an' he call 'um a seedlin' what he hab de distinguish' honah ob raisin'. But he nebbah been known to hab any seedlin's befo' an' if you prowls roun' his place you doan' see none ob dese yere seed beds nor nuffin' ob dat kin' layin' roun' loose, an' what am mo' strange he nebbah am heared from again in de same line ob seedlin's.

Sometimes a man think he hab done reached de ideal dat he hab been earnes'ly strivin' for, an' hab him securely fenced in, but like's not he aftahward fin' dat he am badly fooled, an' dat his ideal am way off in de dim horizon. Dat young colt what he registah wif so much display an' hab so much to say 'bout his pedigree, turn out to be a heap wus trotter dan his reputed faddah was. You know de man whose great ideal it am to be 'knowledged as de great an' only 'sessful violet growah. He done hit it las' yeah, an' prehaps he hit it 'gain dis yeah, an' dat make him too previous, an' he done think he know it all, an' he done strut roun' an' prehaps he condescend to gib kin'ly 'struction to his po' benighted neighbahs 'bout it. It am mo' dan likely dat same man will be comin' to you nex' wintah wif a long tale ob woe, an' wif he chin hangin' down like he mos' trip ober it, to ask you' kin' advice 'bout de bes' way to get rid ob dis yere dreffal violet disease.

An' doan' you be too proud wif him, an' go to showin' off you' foolish conceit. It am bettah to be modes', so dat he doan' come back an' get de laugh on you, for you doan' know for suah but dat you'self may be de nex' victim.

Dis yere am a mighty risky business for a man to do much braggin' in.

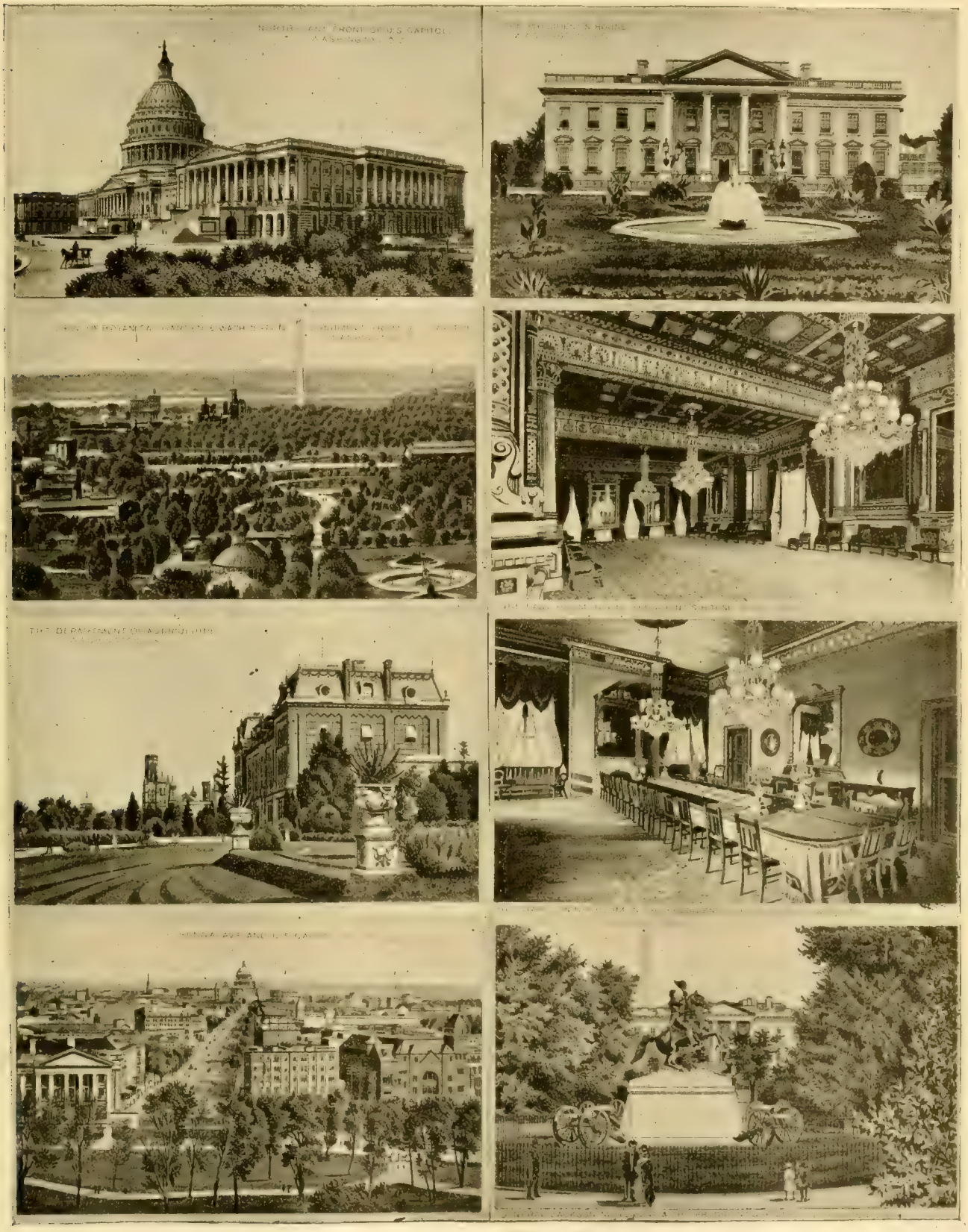
Dere's de man what done come to de Floris' Club an' always keep his jaws a'waggin' on every subjec' dat come up, an' he like to show dat he am a master han' at debatin'? His ideal am to be known as de great parliamentarian, an' if registration in dis line was 'lowable, dat man would mos' likely registah heself as "D. Webster de secon', las' but not leas'." But in de end de only result ob his ambition am dat he make heself a unmitigated nuisance. I doan" say dat he am in dis aujience but dar am few Floris' Clubs where he am not.

Dar am scherial ideals dat hab not as yet come to pass. Dar's de blue chrystiantum, an' dars de golden yellow tea rose, an' dar's de blue rose. But Brer May he say dat we done hab too many blue roses now, an' a look frough de diff'rent greenhouses will show dat he am mo' dan half right. Den dar's de ideal Floris' Club, whar de membahs doan' hab no quarrels an' doan' call no names. Dis yere ideal dey am mos' likely to reach fust in Canada.

Befo' closin' dis meetin' I desiahs to say dat I understan' dat some unfav'able critiacism was made 'bout some ob ma remarks regardin' de C'misyun Man at de las' meetin' ob de club. Ef de outraged pahty am in de aujience on dis 'casion I takes de opportunity to tole him dat it am well known dat wholesome troofs doan' always 'gree wif de stummick.

De membahs will please not leab dar sents till aftah de hat hab gone de roun's, an' in de meantime we will all sing de hymn,

"Oh, you'll know when you git dar."



WASHINGTON VIEWS.

Washington Views.

The next annual convention of the Society of American Florists will be held in Washington in August, and as a foretaste of the sights to be seen at the National Capital we present in this issue a number of views of public buildings and grounds that will we believe be of general interest to our readers.

YOU MAY not care a copper for the directory list proper in our new trade directory and reference book, but you really do need the reference book part, whether you do a wholesale business or not.

Miscellaneous Notes.

The Mexican primrose [What is the plant you refer to as "Mexican Primrose?"—ED.] germinates from seed as easily as the English daisy, it also grows readily from cuttings, rooting in a few days; it is free flowering, color of bloom rose

pink and each bloom lasting about three days. It is a good plant for hanging baskets and garden boxes.

Cannas Alphonse Bouvier, Mme. Crozy and Star of '91 would I think make excellent parents for an improved race of the dwarf strain of cannas which has surely come to stay. If we could only get a canna of the free blooming dwarf habit of Star of '91 with large flowers of a rich deep velvety scarlet we should indeed have a treasure. At any rate we will expect great results from careful selection, cross fertilization and the survival of the fittest. [These cannas are already the parents of a numerous progeny. Have you succeeded in successfully cross fertilizing the canna?—ED.]

What is the difference between the Washington rose and the Mary Washington rose? The descriptions are the same while the prices are different. [Please be more specific.—ED.]

The Helleborus niger (Christmas Rose) is worthy of a prominent place in a garden of hardy herbaceous plants. It has wintered outdoors without protection for the past eight years with me and blooms all winter. It should be planted in the spring in deep rich soil where the sun does not shine upon it when frozen, although my plants get the sun all day. [Has been referred to frequently in the FLORIST. While it may be hardy enough, the florist to get the best use of its blossoms must grow it in winter indoors or in a frame —ED.]

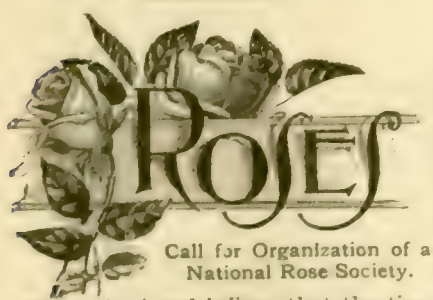
The Blanche Ferry sweet pea is worth more to me than all other sweet peas for cut flowers. It is free flowering and dwarf and has large blossoms and fine fragrance. But there is a poor, dull colored, striped, scentless variety mixed with the pure pink that should be exterminated.

I predict that every flower lover who visits the World's Fair next year will return home so full of new ideas that '94 will be a year of unprecedented activity to the florists.

Why not try forcing the Dinsmore rose in place of the Am. Beauty? It is so much stronger grower and freer bloomer, and it looks very much the same. [Handled as you suggest do you find the Dinsmore a more profitable rose than the Am. Beauty?—ED.]

EVELYN ARNOLD.

Grand Rapids, Mich.



Call for Organization of a National Rose Society.

The undersigned believe that the time has arrived for the organization of a national rose society, the desire for such a society being general and wide spread.

The rose, both in its intrinsic and commercial importance, leads every other class of plants grown. The immense sums of money annually spent on rose-buds have led to the erection of millions of feet of glass upon the North American continent solely for the production of rose bloom.

There is not a florist but what is interested in the rose, be his establishment large or small, for it is a flower which is absolutely necessary to the prosecution of his business. Methods of culture are now pretty generally understood throughout the trade, and the demand for a first-class article is now fully realized.

The American flower buyer is quick to admire and appreciate new and improved varieties, and there is a national taste displayed in the choice of roses which is quite individual and pronounced and who, better than the American rose grower, can produce new types and forms that shall, in a measure at least, fill the national requirement.

It shall be the aim of this new society to help on the good work of originating new American varieties of roses suited to the American market. Most of the roses of American origin are "sports," as they are designated, from the finest bud varieties, Bride, Waban, the Queen, Sunset, White Perle, and several others, all grand roses, but not produced by the skill of the American rose grower. Souv. de Wootton and a very few others, less notable, are our sole American seedlings. This should be remedied.

The purpose of this organization shall be:

First: To stimulate and encourage the raising of new varieties of roses in America, by the offering of prizes and by other recognition on the part of the society.

Second: To establish and encourage rose exhibitions throughout the country and, as soon as practicable, to hold a national rose show or exhibition each recurring year.

Third: To establish a proper and intelligent method of classification and to authoritatively weed out of our lists worthless and undesirable varieties.

Fourth: To give better opportunity for rosarians to become acquainted and to discuss methods and the varied matters of interest pertaining to the growth and the finest development of the rose.

All in favor of forming a society with such objects as outlined above will please send their names promptly to M. A. Hunt, Terre Haute, Ind.

A meeting for organization and selection of officers will be announced during the meeting of the Society of American Florists at Washington next August.

E. G. HILL,
J. N. MAY,
M. A. HUNT,
ROBERT CRAIG,
J. C. VAUGHAN,
ERNST ASMUS,
ANTOINE WINTZER,
F. R. PIERSON,
EDWIN LONSDALE,
JOHN BURTON,
J. T. ANTHONY.

New York.

At the present time the trade is in a state of utter deadness, so far as cut flowers are concerned. There is absolutely nothing doing though a few unimportant decorations have taken place within the past week. Flowers are plentiful, outdoor stuff is coming in and prices are "anything you can get." The only people who seem to enjoy business are the fakirs.

If the flower trade is poor, those who do jobbing about the city find their harvest in the bedding trade. It is confidently asserted that it has never been better than this season; in fact, no previous season seems to approach it in the volume of trade. All sorts of bedding stock is in active demand, and the prevailing taste lies in the direction of good plants. A quantity of extraordinary fine calceolarias are to be seen, many coming from Flatbush growers, who make a great success with many of the spring flowering things.

Dards had a very showy display of the calceolarias at his store.

A noticeable thing in Stumpp's store was a mass of the dark Pæonies (tenuifolia) which gives the most brilliant color to be seen in these flowers.

A noticeable display at Siebrecht & Wadley's during the past week was a large importation of bay trees, just received direct from Italy. They formed a regular grove around the store, attracting attention from everyone who came along the avenue. They have been received with considerable favor; in fact, they seem to be a regular craze with the best class of buyers, being used largely on lawns. They are grown in tubs, and are very shapely. They travel admirably, coming off the long voyage as if packed but yesterday, and are excellent for use in halls and other cool or draughty situations. A large number of these trees will make their appearance in the fashionable summer resorts this season, and they can never be considered common, because the time and care required to bring them into perfection will prevent them from being as low priced as many other decorative plants.

The May meeting of the Florists' Club was a most enjoyable affair. Besides the interesting and intelligent essay delivered by Mr. J. R. Johnson which we will print in full in next issue, there was the feeling of elation at the gratifying results of the club's efforts in behalf of the Actors' Fund Fair, and mutual congratulations were in order.

A statement by Treasurer Weathered as to the healthy financial condition of the organization was also received with lively satisfaction. Mr. James Currie, of Milwaukee, was present and in a few brief remarks complimented the club highly and promised a hearty welcome for one and all present should they favor Milwaukee with a visit. Three new names were proposed for membership.

The Bowling Club meets regularly every Monday afternoon and the score board shows some wonderful figures. Ernst Asmus is the present happy possessor of the Club Medal.

On Tuesdays and Fridays as one turns from Broadway into Dey street, a sound is heard far above the din and roar of the street. It is not a fog-horn, it is the voice of the old veteran Elliott, who is as usual at this season of the year, on his high horse and independent as a wood-saw. "Why, gentlemen, I don't understand why you stand in your own light," he exclaims, and then blushes deeply as he gathers in a bid of 17 cents for a geranium, or a dollar for a Lilium Wallichianum superbum. But what superb geraniums those from J. & R. Leach, of Jersey City, are, especially the Gloire de France with their immense trusses.

"Oh, ain't them pretty Chinee Asters!" exclaimed a fair damsel to her companion while walking past the tulip beds in Central Park last Sunday. She comes pretty near being a rival for the average newspaper reporter when he tackles floriculture.

Boston.

Cut flower trade is extremely dull. Prices are very low on everything, roses particularly. The only life visible is in the spring plant trade.

The "War of the Roses" as it is facetiously termed by the daily papers still goes on. A fakir has been arrested and fined for peddling, and has appealed with the intention of making a test case of it.



WASHINGTON VIEWS.

The retail florists do not seem to be giving themselves much uneasiness over the present conditions. The growers are the parties who are making the most noise and the retailers keep in the background and have a quiet smile all by themselves. Meanwhile the fakirs are gradually getting themselves intrenched by hiring little angles and nooks on private property where they are safe from interference.

The sensation of the week has been the placing on sale and advertising extensively as a magnificent orchid, of the common little Goodyera pubescens or "Rattlesnake Plantain" of the woods. This was at one of the large bazaar stores. A colored representation of a big pure white Miltonia, blooms six inches across, hung back of the counter and was represented as the result which would come from the wonderful little plants, and the price was 27 cents per plant, or two for 50 cents. On investigation the firm claimed to have bought the plants in good faith supposing them to be as represented. The name of a certain Mr. Faxon, a seedsman in Boston, was given by the attendant as the party who supplied the goods. One of the refreshing statements made on the wrapper enclosing the plant was that it would grow "on a shingle hung on the wall," also "these plants have always been sold at exorbitant prices and we are delighted to be able to obtain some to offer you at such reasonable figures." On being informed of the deception the firm promptly withdrew them from sale, but what a contemptible position for a man who knows better to place himself in.

The May exhibition of the Massachusetts Horticultural Society was unusually successful and the attendance was very large. The azaleas shown by C. M. Atkinson were gorgeous, the tallest in the group being not far from ten feet in height, and were well entitled to the gold medal which they received. Kenneth Finlayson took all the prizes in the six plant and single specimen exhibits. A certificate of merit was awarded to Mr. Finlayson for a fine specimen plant of Cypripedium caudatum. The calceolarias from C. M. Atkinson were superb, also the cut blooms of tulips and daffodils. The displays of hardy spring flowering herbaceous plants from J. W. Manning and Wm. Martin attracted much admiration, and the native plants shown by E. H. Hitchings and Mrs. P. D. Richards were as interesting as ever. Wm. Martin took first premiums for show pelargoniums and zonal geraniums, and his streptocarpus were excellent. There were many other notable exhibits and the general quality of the show was so excellent all through that it seemed a pity to close the doors at the customary hour, 3 o'clock, the hall being almost packed with visitors at that time.

There has been a fine display of pansies every Saturday from R. S. Fay. Those on May 14 were particularly good. On the same day C. M. Atkinson showed a beautifully bloomed plant of Cattleya Skinneri, and the calceolarias from James Comley were excellent.

The prunuses and pyruses are making a beautiful show now at the Arnold Arboretum. Prunus Grayana is a new one from Japan, the flowers white and borne on

long racemes. Prunus Persica, the cultivated peach of Pekin, is covered with flowers of the loveliest pink. Pyrus Maulcii is a beauty. It is a great advance over the old Pyrus Japonica. The flowers are brilliant vermilion and cover the branches clear to the ground. The earliest lilacs to bloom here are Syringa oblata, a fine bright colored species, and S. hyacinthiflora, which is a double flowered sort.

The abundant rains of the past week have made their impression on the tulip show at the Public Garden and that gorgeous display will soon be a thing of the past, and the pansies will have their innings for a limited season. The rhododendron beds are in splendid condition and will be a fine show. The hardy herbaceous plantations at the Back Bay Park are brilliant with spring flowers now. The everchanging succession of bloom will be continual attraction to visitors.

Somebody found out that May 10th was Tom Cox's birthday. Also that this date the present year would be the 50th anniversary of that event. That was why Tom was seduced into a bowling alley on the afternoon of May 10th and kept there till nearly 8 p. m. by several of his cronies. That was also why the said cronies insisted on seeing Tom home, although they falsely represented to him that they were going to attend a democratic caucus, and that was why on arrival at Tom's residence lively strains of music mingled with sounds of merriment were heard, and why on further examination the house was found to be in the possession of another big delegation of his cronies, ladies included. It was expected that Tom would be surprised, and he was. The special business on hand was disclosed when he was escorted to the dining room and there informed in classic language by Mr. Fred Mathieson that the handsome new sideboard which stood there was to remain as a token of the sincerity of his visitors' congratulations. Mrs. Cox was not forgotten either, and a cosy rocking chair was the proof.

After Mr. Cox had voiced his thanks for the gift Mrs. Cox was called on for a word also, but she expressed inability to make a fitting response, adding, however, that had it been a cradle instead of a rocking chair she would have known what to say. The great trouble, though, is that they have never had any use for a cradle at Tom's house, a fact which Tom mourns and which ensures for him a sympathetic fellow feeling from his neighbor, Warren Ewell, who bemoans a similar condition of things at his own house.

It was the same old "Boston crowd" including the "Sheppard of the flock" from Lowell, who would have come had it been twice as far, and who made the wittiest speech of the evening. The party broke up in time for breakfast and the only regrets expressed were that the night had not been half long enough.

Among the visitors in town the past week were Samuel Henshaw of West Brighton, Staten Island.; Alfred Dimmock, representing Sander & Co., London; Geo. C. Watson, of John Gardiner & Co., Phila., and Martin Finaghty, of Lenox, Mass.

Do you WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

Do you WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

Chicago.

The supply of all stock is shortening. Roses are not coming in in such large quantities as a week ago, and prices are somewhat firmer. The cut is estimated to have dropped off fully one-half and quality is lowering also. From present appearances roses will be scarce for Decoration Day.

Reinberg Bros. have been cutting some good American Beauties. During the last week they cut an average of 400 to 500 a day. They have been very successful with this rose and of the 14 new houses they are now building one-half will be devoted to it. They will also grow a house of Mme. Pierre Guillot.

There is but little outdoor stock and what there is of it is poor, the result of the miserable weather.

The old red pæonies are making their appearance in the market. Those already received come from Hunt, of Terre Haute.

At the last meeting of the Florist Club Mr. N. Singler stated his conclusions regarding the carnation disease, which were in substance that in his own case the disease was due to an enfeebled condition of the plants brought about by propagating too early. He believes that when the plants are propagated before February the long sojourn in the houses before planting time weakens the constitution of the plants and thus renders them susceptible to attack by the disease. He attributes another failure to the use of what is called "paunch manure." This is manure obtained from the slaughter houses and is taken from the animals that are killed there. It is much used by farmers but Mr. Singler feels that it is dangerous for florists to use. It contains considerable half-digested matter and it is probable that this is what causes the injurious effect. He has another poor bench of carnations whose condition he attributes to the use of too large an admixture in the compost of what he calls "wild soil," from an uncultivated field. He is keeping an accurate record of the number of blooms cut from each of the varieties he grows and promises to later on give the club the benefit of his conclusions regarding the comparative profitableness of the different sorts. When asked whether he would be able to determine what the net cash returns per square foot of bench surface from each variety would be, Mr. S. innocently replied, "No. I can not determine that. You see, I sell part of my flowers and send the rest to a commission house," and but for the roar of laughter that greeted this statement the speaker would probably never have realized the construction that might be put upon it. But the commission men present enjoyed the joke as heartily as the others.

Mr. C. J. Strombach, head-gardener at Lincoln Park, favored the Club with some observations upon the use of hardy plants in and around Chicago, and expressed the belief that it would pay the florists who grew plants to pay more attention to this class. He stated that he was frequently asked by visitors to the park where these plants could be obtained and believed that an unsatisfied demand existed. But he warned his hearers that a selection should be made suited to the Chicago climate. He has had bad luck wintering campanulas at the park. He had plants that were 12 to 14 inches in diameter in the fall and hardly a trace of them could be found in the spring. The constant freezing and thawing and freezing again that plants get here tries them severely and only the very hardiest survive. It was questioned by one member whether the people would pay prices that would make the growing of such plants remunerative but the general sentiment was that the people wanted them and would pay for them. Several cited cases of demand that they were unable to satisfy and expressed the belief that sales would be large if these plants were placed before the people in an attractive way, and in quantity. As a side light upon the question it was stated by a commission man present that last season a grower had sent him a lot of flowers of the cup and saucer companula and every flower had been sold quickly at $1 a hundred blooms. And retailers said that people were quick to note and appreciate any odd and pretty addition to their usual stock of flowers and that a greater variety would be a benefit to all concerned.

Does it pay to grow good plants of cyclamens for this market is a question that may be answered both in the negative and the affirmative. Mr. Kirkham of Maywood states his experience as follows: "We grew about 100 plants for an experiment. They were good plants but all we could get for them in Maywood was 25 cents each at retail and that didn't pay. Then I brought a plant down to the Florist Club meeting. A member who has a city store asked me if we had any more and what we got for them. I told him and he took the whole lot at what we were selling for at retail. Later I found I could have sold the whole lot to another florist who also had a city store at double the price I had received." He couldn't sell at a profitable price in Maywood but dealers who had facilities for bringing the plants under the eyes of a larger number of possible customers could afford to pay him double his rates and still make from 50 to 100% profit for themselves. The community that demands geraniums at 10 cents each won't snap at cyclamens at $1 each, but there are (especially in large cities) lots of people who want something nicer than a 10-cent geranium and who want it bad enough to pay what it is worth.

Kennicott Bros.' new place of business is a big step forward. It is three or four times the size of the old one and is admirably arranged and fitted up. One excellent feature is a large cool room in which many flowers are kept to better advantage than in the ice boxes.

E. H. Hunt's new place is also a great improvement upon the old one. It is in a basement and a feature is a large cold room under the sidewalk. Such places keep flowers in much better condition for shipping than ice boxes, though the latter are of course also necessary.

The Schmidt Toy and Wheel Co., 177 Wabash Ave., intend to open a cut flower department in their store.

Among recent visitors from abroad was Mr. W. Segers, of the firm of Segers & Co., Lisse, Haarlem, Holland.

S. F. Leonard, the West Randolph street seedsman, has added a department devoted to bulbs and florists' supplies. Walter Heffron is now with Mr. Leonard looking after the interests of this department.

Geo. W. Miller will remain at his present location till fall, when he expects to have his new range of greenhouses ready for occupancy. He will in all likelihood build at Hinsdale.

The new greenhouses of the Lake City Floral Co., now building at Downer's Grove, are four 84x20, two 184x28, one 184x20 and one 12x88. They have a very pretty city store at 48 Adams street, of which Mr. A. G. Prince is superintendent.



FIELD OF TUBEROUS BEGONIAS.

The premium list for the chrysanthemum show of the Horticultural Society of Chicago next November, is now being printed and will be mailed to probable exhibitors within a few days. The prizes are very liberal and competition should be brisk.

J. H. Deitz & Co. will soon open a floral store at the South Park Station on the Illinois Central road.

Field of Tuberous Begonias.

We present in this issue a view of a field of tuberous begonias at the nurseries of John Laing & Sons, Forest Hill, London, England. Such a sea of bloom and such a wealth of color must have been a gorgeous sight indeed.

Philadelphia.

Chas. F. Evans was married to Miss A. R. Kenney, of Philadelphia, at West Arch Street Presbyterian Church, Thursday evening, May 12.

The chancel was very prettily decorated with palms, lilies and hydrangeas. The bride carried a bouquet of lilies of the valley and cattleyas; the bridesmaids, six in number, had bunches of white lilacs and cattleyas, and the maid of honor's bouquet was of Mermets; all the bunches were tied with a profusion of narrow ribbons in which were clusters of valley, sweet peas and asparagus.

After the ceremony a reception was held at the home of the bride, and the happy couple then started on an extended tour.

There is very little doing at present; people having country seats in the neighborhood of the city are moving out to them and many take up their residence at the large suburban hotels before going on their annual summer pilgrimage to mountain and seashore.

There has been quite a lot of funeral work. The death of two city officials occurred last week, at each of which there were some quite elaborate designs. College commencements made a slight demand, but they have almost ceased to be a factor in the spring business. Years ago florists used to have all they could do for important occasions of this kind, now they are scarcely noticed.

Roses are very plenty. La France, Brides, Mermets, Albanys, etc. bring 5 to 6; Perles, Sunsets, Gontiers, Cusins 3 to 4; hybrids and Beauties 15 to 25; carnations 1 to 1½; valley 4; smilax very scarce at 25; Harrisii lilies and callas 6 to 8.

One of the most successful growers in this neighborhood in speaking of the business recently said that he had been fairly successful and that he believed it was because he had given close attention to things that he found did well with him. He would not give a plant up without a fair trial, but if he found that his soil or location was not suitable, or for some other reason it did not do well, he would drop it. It was much better to do a few things right and have them in quantity when they were wanted than to grow a great variety of stuff. He kept a sharp lookout for new varieties and if he was convinced after a trial that a plant had merit he would work up a stock as fast as he could and not wait until it was in all the catalogues.

During a recent visit to the conservatory of the White House at Washington we noticed a very pretty flowering begonia, a cross between Bruantii and semperflorens gigantea rosea. It is pure white in center, shading to a bright pink at the edge of the petal. It is very distinct and will be a welcome addition to our winter flowering begonias. It has not been named as yet as the stock is small and Mr. Pfister has not been able to get a good plant so as to see it in perfection. He has some specimens of Ficus elastica on single stems 18 feet high; they are feathered to the bottom and are quite remarkable looking specimens. He says they are very useful in decorating.

The tulip beds were just about out of bloom. In planting the beds rows of crocuses are alternated between the tulips and in this way there is a succession of bloom for some time. Mr. Pfister grows all the tulips he needs and has not imported any for a long time. He says they increase even faster than he can use them and if anything he has better success than with the imported ones.

In the Central market, where a great many flowers are sold, there seemed a good supply and not much business, it (Wednesday) not being a regular market day. There are three regular days—Tuesdays, Thursdays and Satudays—and if the stall is not occupied three days in the week it is forfeited and rented to some one else. They rent for $75 a year. Most of the stalls are occupied by growers, in fact all are growers but some have stores in addition and it is a question as to which department sells the surplus stock.

Every one seemed well satisfied with the season's business and all look forward with pleasure to the coming of the Society of American Florists. There is no question that it will be a memorable session, and none should miss this opportunity to visit the Capitol and attend the convention at the same time.

William H. Westcott has removed from 2nd below Tioga to Ridge and Lehigh avenues. K.

Baltimore.

Thirty-four members showed up at the last meeting of the club, and everything seemed to indicate prosperity and good nature among the members. Surely the Easter trade must have been a thorough success.

Two new members were elected and thirteen associate or passive members were added to the roll. A resolution to visit Bay Ridge on August 19th, the same date on which the Washington Club purpose taking a trip there, was passed.

Then came the event of the evening, the debate on the question, "Resolved, that it is more economical to use 2-inch pipe than 4-inch, in fitting a house 100x20 feet for hot water.

First of all came an argument on the question of a jury to decide the case, Mr. Ekas moving to leave the whole question to a vote of the club, but after the motion was passed, an argument by Mr. Moss led to a reconsideration, and three judges were appointed, Messrs. Wiedy, Seidiwitz and McRoberts.

The first step in the debate developed the astonishing fact that there was only one man on the negative side, outside the judges, and though that one man bore himself nobly and made answer to each opponent in turn, and to some two or three times, yet he was overpowered by sheer force of numbers and the decision was against 4-inch and in favor of 2-inch pipes.

Mr. Hess, who opened in the affimative, stated that the difference in cost of pipe would be 4 to 5 cents in favor of 2-inch pipe, also that 1000 feet of 2-inch would do the same work as 1000 feet of 4-inch and be much easier to put up.

Mr. Ekas followed with quite an elaborate argument for 4-inch pipes, claiming that the cost set up was really less than that of 2-inch. While the body of water cooled slowly, avoiding quick changes, which he thought very injurious to plants, besides 2-inch must be heated to high temperature or they would cool before reaching the end of a long house. Had considerable experience in hot water heating and considered six tons of hard coal an ample supply to heat 1000 square feet of house. Used a flue in connection with boiler fire.

The replies to his argument were numerous, one of the members, having tried both, was in favor of 2 inch but could give no estimate of proportionate cost of running the 2-inch system. Another argued that if 4-inch were good 5-inch would be better, but knew of a place where 5-inch pipe did not heat well at all. Mr. Moss also thought quick cooling an advantage as pipe would heat quicker when needed, and that the same number of running feet of 2-inch would do the work of 4-inch pipes. Considered 4-inch pipes clumsy and in the way.

Mr. Ekas closed by arguing that all failures in the use of large pipe were due to imperfect placing; preferred raising pipe to highest point as soon as possible after leaving boiler.

The judges were Messrs. Wiedey and Seidiwitz for affirmative, Mr. McRoberts for negative, the latter giving as his opinion to a member afterwards that to argue that 6 square inches of radiating surface, could give out as much heat at the same temperature as 12 inches could was sheer nonsense, and that properly placed pipe of either 2-inch or 4-inch could be heated to as high a temperature as would be safe, as when 212° was passed steam would generate and the water blow out.

It is a pity the club was not divided equally and a more evenly balanced discussion secured.

Business has been rather slack in cut flowers during the week, the chief features being the enormous lots of shrubbery blooms in the markets, and a heavy supply of roses in the stores. Everything seems plentiful, and prices are very low still, very fair valley being offered at 25 cents per 100, and good ordinary La France going a begging at 3.

The trade in plants is mending daily though, and what is lost in flowers may be made up in geraniums, coleus, etc.

MACK.

Toronto.

Every one can buy roses now. At the market on Saturdays they have been selling at prices for the million, though all the same there is not "millions in it" for the growers; however, they seem to think it better to get what they can rather than dump their stock on the rubbish heap. Manton Bros. and some others who have stalls on the market have been making a good thing out of this line; some of the stores, however, are kicking like two-year olds and Tom Manton, who has been I am afraid the ring leader of the market gang, says he is getting quite used to being called a "fakir." It is doubtful, though, if it really does the stores any harm, because the class of people who go to the market are not the class who can afford to buy roses unless they can get them at low rates and is it not a good thing that these people should have a chance now and then of getting flowers, thus keeping their love for flowers alive? Low prices now may bring increased trade in the future.

Mr. Aylett, formerly gardener to Goldwin Smith, Esq., whom I mentioned some time ago as being very ill with "La Grippe," died this week. He had reached the ripe age of 80 years. As many of the brethren as could leave their work at this busy season paid their last respects at the funeral. Mr. Aylett's son is gardener to Senator Sandford at Hamilton, and has charge of probably the largest collection of orchids and stove and greenhouse plants in Canada.

Isn't Odontoglossum vexillarium (or Miltonia vexillaria as the books call it) a very pretty orchid? What could be prettier to adorn the head of a brunette? It seems to be very easy to grow too, and takes up very little room. I think the florist who invested in 25 or 50, or even more, plants would not lose on them. I recently bought a few imported plants and they are all making fine growth, root and leaf.

Prices of plants are very low at present, but it is hoped they may rise when the general demand sets in. E.

Buffalo.

There were so many changes about the 1st of May, it is hard guessing where any body can be found. One firm, through the terribly dilapidated condition of their newly acquired store, had to call on another Main street florist for temporary accomodations which were gladly given. But it was a little vexing to see some city officials walk in, ask for that alien firm, give an order for about one hundred dollars and walk out entirely ignoring the man who was paying for the store. But we believe this is all right and shows a high state of civilization.

Among the plant men it is a very busy time.

Daniel B. Long is about settled in his new quarters on Washington street. The convenience of a reliable wholesale florist is already felt and every one seems to be glad that we have such a depot to call on. More particularly must this be a benefit to many florists in country towns who now can depend on their wants being supplied without sending four hundred miles. A pretty neat little card was received to-day from D. B. L. announcing that he would hold an opening on May 16 at 4 P. M. Dan knows how to get the boys together and I am willing to wager they will be treated well when they do assemble. After Dan's reception several of the boys will roll their concluding games in the tournament, so look out for an awful fall of averages.

Very busy times has kept the attendance at the florist club meetings rather small, but under the able management of Cowell as president and old man Mepsted as secretary, we are improving rapidly. Three weeks ago W. Scott read a paper on "Sub-tropical Gardening" which the secretary in his minutes said was "comprehensive, instructive and interesting," and last week Mr. Milley read a paper on the Begonia. If the florists of this country were not so well posted in everything these papers would be well worth printing.

Prices of flowers have dropped some, but not to starvation prices. Carnations retail at 35c and 40c per dozen, Brides, Mermets and La France, $1.50 per dozen. Of smilax there is none within 200 miles. The terrible dry and cold April hurt outside stuff badly, and there is as yet no competition with glass grown flowers.

G. S.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

J. C. VAN LINDLEY, Pomona, N. C., president; W. J. PETERS, Troy, O., vice-president; CHAS A. GREEN, Rochester, N. Y., secretary; N. A. WHITNEY Franklin Grove, Ill., treasurer. The seventeenth annual meeting at Atlanta, Ga., June 1 to 3, 1892.

Trees and Shrubs in Bloom, May 11.

BY WM FALCONER, GLEN COVE, LONG ISLAND

The weather for some time back has been cool, especially at night, and the blooming time of trees and shrubs is, according to my diary, exactly eight days later than it was this time last year.

Maples, lindens, bird cherries, horse chestnut and many other trees are advancing into fine leaf growth; and sweet chestnuts, hickories, catalpas, locusts and others of a later stamp are bursting into life.

Peach trees are out of bloom, so too are cherries; plums and pear trees are in their showiest estate or failing, with the apple tree buds colored and many of them opening. Red currants are in full bloom, black currants beginning to open, and some gooseberry bushes in flower and others setting fruit. Strawberry plants have commenced to flower.

The time of blooming of plants in spring depends a good deal upon local circumstances; a forsythia on the south side of your house may come into bloom in March, and another of the same sort on

the north side not till the middle of April. Plants are also earlier in light dry land than in heavy soil.

LILY OF THE VALLEY is one of the best guages of the season. We gathered the first lot from out of doors yesterday (10th), it is fine to-day, and will be at its very best on the 13th to 18th.

FORSYTHIAS are about past. Viridissima in heavy land and sheltered from sunshine partly is still very fine.

THE EARLY BLOOMING MAGNOLIAS are much past their best, conspicua and stellata altogether. Soulangeana, Alexandrina, speciosa, gracilis and others of that type have a good many blooms yet; Lenne is in fine form, so too are the red and purple varieties of obovata. Kobus bloomed unusually well this spring, flowers small, white, faintly fragrant. Altogether, perhaps, it is the poorest of our Japanese magnolias.

SPIRÆA THUNBERGII has been in bloom some time, so too has prunifolia fl. pl., and now we have media, a real good shrub with many a synonym; hypericifolia, which isn't worth growing, and the curious, and just now quite handsome, lævigata.

EXOCHORDA GRANDIFLORA will not be in full bloom for two or three days yet; its first flowers are opening. Albertii, another species, is quite hardy and a good grower starting into growth earlier in the season than grandiflora. It has not yet flowered with us.

CERCIS CHINENSIS, commonly called C. Japonica, and C. Canadensis are the only kinds of red bud we grow. The Asiatic species is now splendid and much more of a bush than is Canadensis which is a little tree and now likewise quite showy, but not nearly as bright as Chinensis. Siliquastrum isn't quite hardy here.

RHODODENDRON VASEYI is in full bloom. It is the earliest and most beautiful of our deciduous azaleas; the color in different plants varies a little in depth. Ledum latifolium has just opened, Andromeda polifolia is in perfection, and Rhodora Canadensis in full bloom and beginning to grow.

JAPAN QUINCES are in their heyday—in full bloom and plentiful leafage. But the Chinese quince isn't yet in blossom.

BERBERIS THUNBERGII is in good leaf and full bloom and many of last year's scarlet berries are yet dangling among the bushes. The mahonia is showy still, but dropping. Microphylla is the fullest in bloom of the yellow flowered hardy ones, but many that are somewhat tender (here) as empetrifolia, Darwini and stoloniféra are also opening prettily.

ELÆAGNUS LONGIPES is in full bloom. It's neat, well branched habit and great profusion of silvery gray flowers make it quite a handsome object now, but its greatest beauty will be in a few weeks from now when its fruit is ripe.

RUBUS DELICIOSUS has large showy white flowers on arching branches. Not quite at best yet. Its fruit, notwithstanding its specific name, doesn't amount to much.

SAMBUCUS PUBENS has a bunch of whitish flowers from every eye of every joint of its young wood.

KERRIA JAPONICA, single, is in good bloom; the variegated leaved variety also has commenced, and the swollen buds of the double form are ready to burst.

RHODOTYPES KERRIOIDES, also known as the white flowered kerria, has begun to bloom. Lots of the black fruit from last year hang on the bushes yet, and a pasture of self-sown young plants is springing up beneath them.

No deutzias yet.

DAPHNE GENKWA is a little shrub from China and Japan, and just now its naked stems and twigs are completely covered with sweet lilac-blue flowers. Foliage comes later. One of the gems of our collection.

SIBERIAN BIRD CHERRY (Prunus Maackii) is something nice in the way of a small tree. It has been in full bloom since eight days, and also is in full foliage and growth. Its flowers are white, in graceful racemes and sweetly fragrant, and the appearance of the great abundance of the airy showy flowers among the plentiful foliage has a charming effect. The European (P. padus) or American (P. serotina or P. Virginiana) are not yet in bloom.

THE "FLOWERING" JAPANESE CRAB APPLE TREES are just now the glory of our gardens. Their buds are brilliant, their blossoms beautiful, and all appear in the greatest profusion. There are single and semi-double flowered varieties, and bush-tree and weeping forms of them and all are beautiful. And no small share of our interest in them is taken on account of the multitude of pea-sized little apples they bear in such vast quantity in fall.

THE SIBERIAN CRAB APPLE we grow as a lawn tree in a semi-spherical form. It is now in full bloom, and the flowing habit of the tree, showy flowers and plentiful foliage, give it now a very attractive appearance.

THE CHINESE double-flowering apples are only opening. How beautiful they will be in a few days! The habit of the tree is stiff, but the profusion of blossoms is enormous, and these are ropes of yellow, red-tinged small apples in fall, which also are very ornamental. But the fruit is worthless.

PRUNUS AMERICANA in several forms is grand, white as snow. Still I wouldn't recommend them for small gardens. Myrobolan plum trees are out of bloom, and Cherokee fading.

THE BEACH PLUM (P. maritima) is just opening; a few days from now it will be a snow bank. It grows well, blooms extravagantly and fruits moderately in cultivation.

THE BLACK THORN (Prunus spinosa) is fading; was very fine a week to ten days ago. Ours is the double-flowered form. Were it the single one Pat would not leave a sprig of it to grow so long as he could cut from it a shillalah and Fritz had a crown to crack. But the double variety is a bastard form and has no virtue in it.

THE DOUBLE-FLOWERING JAPAN CHERRY, pink, has been in splendid bloom since nine days; petals now beginning to drop. Even quite small plants bloom freely, and the flowers are so large and showy! Have single-flowered ones too.

WILD RED CHERRY (Prunus Pennsylvanica) is in finest bloom; its arms are wreathed with closely set umbels of white spiræa-like flowers. A lovely object and alive with honey bees.

A WILD DWARF CHERRY (Prunus) from the Black Hills is a little beauty 2 to 3 feet high and laden with little white flowers. Fine for the front of shrubbery clumps.

DOUBLE-FLOWERING ALMONDS so-called, pink and white, are in their prime, and lovely little shrubs they are, and

THE WEEPING, OR GROUND CHERRY, worked standard high is studded with white blossoms.

VIBURNUMS.—There are three in bloom, namely, V. lantanoides, our native moosewood; V. lantana, the European wayfaring tree, and a variety of the last named, V. lantana var. rugosum. The blossoms of all are much alike, white, in dense, terminal cymes, and so too are the foliage and habit of the plants. This variety rugosum is generally catalogued V. rugosum, as if it were a distinct species, a mistake we should guard against as there is a species of that name, an evergreen plant, not quite hardy here.

THE FLOWERING DOGWOOD has got white but is not yet in its finest form. The weeping variety is fully as profuse as the type, and the red flowering one is just as free as the white.

THE AMELANCHIERS in the woods and gardens, from the alpine dwarf to the shadbush tree are white as snow, but a little past their best. Asiatica is later and now only opening.

SEVERAL CARAGANAS are in bloom, notably the little Chimlagu and Radowskyi, but there are lots of prettier garden shrubs.

FOTHERGILLA ALNIFOLIA, a little beauty from the Southern Atlantic States and perfectly hardy here, is now in full bloom. Every little twiglet is terminated with a catkin-like tuft of white bundle-of-stamens blossoms.

CELASTRIS ORIXA, a strong smelling woody vine is now laden with little green flowers; and Schizandra Chinensis is dotted all over with white ones barely open.

STAPHYLEA COLCHICA, a beautiful species with white, waxy, fragrant flowers; and S. trifolia and S. primata, lesser lights by far, are all bursting into bloom, but won't be at their best for some days yet.

THE FLOWERING CURRANTS, namely Ribes aureum, the yellow one, and R. Gordonianum, light crimson, are still in good bloom. Sanguineum isn't reliably hardy on Long Island.

AMONG BUSH HONEYSUCKLES, fragrantissima is still in fine bloom and leafing out freely, but Standishii is past and the fruit swelling. Lonicera cœrulea is at its best, but as it has neither color, beauty nor fragrance, it is not worth growing.

Common English Names for Trees.

Mr. J. G. Lemon, an eminent botanist of Oakland, California, in a pamphlet just received, makes an earnest appeal for English names for trees. He prays us to ignore senseless, inappropriate names, and insist upon suitable, descriptive and distinguishing names, and upon having one name, but one only, for each kind of tree. "For instance," he says, "in one short range of Californian mountains, there are seven different species of pine. Four of these pines are called by the same name, and that the meaningless one, 'Bull Pine.' Now, one of these species—Pinus Coulteri—bears the largest and heaviest cones in the world, often weighing five to eight pounds each. What better name for this tree than Big Cone Pine? A second—P. Sabiniana—has pea-green or grayish foliage. Gray-leaf Pine is suggested for this tree. The third species—P. Jeffreyi—has dark, often black bark, finely checked, in strong contrast with the fourth species, the lighter-colored well known Yellow Pine—P. ponderosa—with which it is often associated.

What better name for this third tree than Black Pine?" A first rate idea, Professor, you have our sympathy and support. The author then gives a popular description of sixty-four coniferous trees indigenous to this country west of the Rocky Mountains, and mentions a distinct English name which he suggests for each of them.

NORMAL, ILL.—The articles of incorporation of the Home Nursery Co. were filed with the recorder May 9. The company has been in business for three years, but had not recorded its certificate. The capital stock is $50,000, and is divided among the following persons: W. H. Schureman, $30,000; G. A. Griggs, $2,000; W. P. Marley, $3,500; E. N. Vencel, $3,500; George Austin, $2,000; W. Hudson, $2,000; James Bland, $2,000; T. C. Martin, $2,000.

REGARDING the spring trade Mr. C. L. Watrous, DesMoines, Ia., writes: "The nursery trade has lasted longer this spring than any other spring for 25 years. Storms and mud unprecedented. Trees slower in coming into leaf than I remember for more than 20 years. Trade excellent. Collections never better.

WINFIELD, MO.—The Stoner Nursery and Investment Co. has been incorporated with headquarters here. Capital stock, $10,000. Directors, J. L. Gaston, Springfield, Mo.; Charles Beck, W. J. Nevins and Z. A. Swope, all of Winfield; J. E. Stoner, C. L. Stoner, Sedgwick, and J. D. Stoner, of Peabody.

DETROIT.—The board of public works has decided to at once begin the grading of Medbury boulevard, and the park and boulevard commission will begin the work of beautifying the same with trees and shrubs as soon as the grading is finished.

RIVERTON, ILL.—The Spaulding Nursery & Orchard Co. has been incorporated with its principal office here. The capital stock is $100,000 and the incorporators are James B., Albert A , and Irving E. Spaulding.

MR. W. F. HEIKES, manager of the Huntsville Nurseries, Huntsville, Ala., is at present sojourning in the World's Fair City. He predicts a good time at the Atlanta convention.

News Notes.

FT. WAYNE, IND.—Mr. J. N. Vesey has just completed two fine rose houses.

KALAMAZOO, MICH.—Van Bochove Bros. are building two new greenhouses.

ITHACA, N. Y.—Prof. L. H. Bailey, of Cornell University, is dangerously ill with bowel trouble.

MR. H. BAYERSDORFER, of H. Bayersdorfer & Co., of Philadelphia, sails for Europe on the 18th inst.

CLEVELAND.—Richard Pollard, one of the oldest established florists in this city, is about to retire from business.

MEADVILLE, PA.—Easter trade was very good. Spring trade is picking up though it has been much retarded by the cold weather.

MOLINE, ILL.—The recent high water got into the greenhouses of both florists here, but no material damage resulted as they were on pretty high ground.

ONEIDA, TENN.—Ellis Stephenson, formerly of Burnside, Ky., has located here and will grow bulbous stuff, for which he considers the soil and seasons favorable.

DAVENPORT, IA.—F. L. Bills & Co. are building two new houses each 20x100. The recent floods reached some of the greenhouses here but not much damage was done.

WILMINGTON, DEL.—The Easter trade was better than ever before, both in plants and cut flowers. Prices were only moderate until Saturday afternoon when they advanced considerably.

NORRISTOWN, PA.—James Chalk has bought out the stock of John Cunningham, of Sandy Hill Greenhouses, and leased the two houses. He will add several new houses to the establishment this season.

SPRINGFIELD, O.—Mr. Frank McGregor, of the firm of McGregor Bros., sails about May 30 by Anchor Line for an extended European trip. Messrs. McGregor will build six new greenhouses 20x120 feet this summer.

DAYTON, O.—Messrs. J. C. Vaughan and H. W. Buckbee paid us a visit last week. J. B. Heiss is building two rose houses 30x146. John Boehner has added a house 12x110 for carnations. Market trade has not been very good yet, on account of bad weather. Easter trade was excellent.

SOUTH BEND, IND.—The Studebaker greenhouses have an elegant display of calceolarias and pansies. There is a demand for blue carnations in this city which a local florist procures from a Chicago firm. What next? Business good all along the line, but prices ruling very low. No planting done yet on account of bad weather.

SAN FRANCISCO.—It is reported that a Chinese company has been organized with the object of monopolizing the business of growing cut flowers for this market. Chinese competition is a menace to any business and the matter will receive consideration at the next meeting of the Florists' Club of California.

ST. PAUL.—The executive committee of the Minnesota State Hort. Society held a meeting May 4 to arrange for the horticultural display from Minnesota at the World's Fair. It was resolved to ask for $15,000 of the state appropriation for the purposes of the horticultural display. Probably one-half of this amount will be obtained.

NEWPORT, R. I.—The early grapery at Mrs. Edward King's, where Andrew Ramsay is gardener, is a magnificent sight. The crop is remarkably even and hardly a bunch in the house that will go under a pound. His method of training the spurs is so perfect that hardly a bit of the glass can be seen from the inside, the splendid foliage completely hiding it.

DESMOINES, IA.—The heaviest loser by the recent hail storm was R. A. Rollinson whose loss was about 1200 feet of single thick glass. R. L. Blair and Mr. Anderson each report about 200 8x10 glass broken, and W. L. Morris 40 10x12. Cole's Conservatory and Mr. Lozier's greenhouse lost but very few lights. J. F. Marshall's loss was about 1000 10x12 single thick as before reported.

LAFAYETTE, IND.—Fred Dorner will add two large new houses the coming summer. Mr. Dorner will introduce a set of twelve of his best new carnations in January next. He devotes two houses to the trial of new varieties, having many hundred seedlings in bloom on his benches now. In size and variety of color Mr. Dorner's carnations seem to lead the country at this time. He is shipping cut blooms of these largely.

TAYLORVILLE, ILL.—Wm. H. Kirkwood will build two greenhouses 100x20, with a lean-to 100x8 this summer in this thriving little city, under the supervision of M. B. Leach, who is to be general manager of the business. Taylorville is about 25 miles southeast of Springfield, at the crossing of the Ohio & Miss. and Wabash railroads and is enjoying quite a business boom, especially in the building line. The new greenhouses will be first class in every particular.

EVANSVILLE, IND.—Messrs. Niednagel & Halbrooks, the lessees of the Carmody greenhouses, will dissolve partnership July 1. Mr. Niednagel retains the old place and Wm. Halbrooks will build three greenhouses on his property in Oregon street. Wm. Blackman will build a new carnation house 100 feet long the coming summer. A good story is told of one of Evansville's fashionable ladies, who sent her daughter to a well known florist to know if she could get some orchids as her mamma had not decided as to whether she would wear orchids or nasturtiums.

Horticulture in the Annexed District.

TATTLER IN NEW YORK NEWS.

The spring opened about three weeks ago and the first robin put in its appearance. Somebody saw the redbreast and soon, as this is an extremely gossipy district, everybody knew about it. Then the storekeepers began to hang out epitaphs something like this:

Al Kinds Off Garden Sedes
Consunly on Hand.
Nowse the time to plant.
The First Robbins in Town.

Everybody that contemplated dabbling in husbandry nibbled at the bait and there was a heavy run on the stores. Most of the annexed district country is built upon a rock and the farm land isn't more than a few inches deep, but those who hadn't sufficient soil borrowed it from where it was thicker, and soon they all had their seeds well under ground. Every morning after that the rear farms were filled by men poking into the ground to ascertain if the seeds had sprouted yet, and the front lawns were likewise inhabited by petticoated Psyches, scratching the soil to see if their flowers had got a move on them. Nothing enlivening happened until one day last week, when the annexed district howled in several or more languages. Male citizens peeped from behind their window curtains.

"Mariar!" they yelled; "come and look at the garden!"

"Is the peas up?" came from under the coverlets.

"Peas, nothin'!"

"Any buds on th' marigolds?"

"Dod gast the marigolds! Great Scott! Come an' look at th' garden!"

"Who's that ringin' the front door bell? The milkman?"

"Milkman? Nah! It's a boy with a snow shovel. He wants ter clean off th' sidewalk."

"I told you that you must give up your club an' now you must. Snow shovels! John, you're drunk yet."

And then two forms in their nighties peered through the window and saw the



TRANSPORTATION BUILDING AT THE WORLD'S FAIR.

garden with a two-inch overcoat of snow all over it, and when the proprietor of the male gown said a whole lot of bad words, the female gown patted him upon the back and didn't kick a kick. Both were mad all through. Their seedlings had been nipped in their budlets and the air was loaded with frenzy and ejaculations of unorthodox brand.

Then the country stores swarmed with irate citizens of both sexes, and if the man who had discovered the first robin had been on hand he'd have been lynched.

It was afterward learned that the robin redbreast was really a robbin' redhead, and that a Mount Hope slavey had been cutting her firebrand bangs and had thrown them from the window of her boudoir. They had lodged in a tree and had been discovered by the near-sighted citizen, who had translated them into the historical spring harbinger. The agriculturists were pacified by the storekeepers, who informed them that the seeds were all right and that the snow wouldn't hurt them. If the frost continued, they were advised, they should cover the plants with anything that would keep them warm until spring really meandered along and the seeds were probably far enough under ground to look out for themselves.

Next morning the whole district looked as if it had been struck by a wad of paresis or as if the ubiquitous dog had broken loose and had been a target for all kinds of cellar and bedroom furniture. The frost had continued and the front gardens were sprouting plug hats, blankets, strawberry boxes, tin cans and dry goods boxes. The housewife had, to protect her plants, covered them with all sorts of household bric-a-brac. Tender geranium shoots wore desuetuded Easter bonnets, budding rose bushes bent under the weight of ancient fur caps, honeysuckles had vari-colored 16-button stockings on their limbs, cute little pansies were almost smothered under pillow cases, chrysanthemum shoots were up to their necks in inverted beer bottles, and johnny jump-ups, marigolds and verbenas snuggled under cast-off tomato, peas and asparagus cans. One lady on Mount Hope covered her flower bed (about as big around as an old fashioned pumpkin pie) with a woolen comfortable and placed hot bricks under it to keep the plants cosy.

The back yard fiend wasn't going to be left, either. He rigged up all sorts of constructions to keep his seeds from going back on him. His form of paresis was to saturate the soil with hot water from the kitchen boiler, via the garden hose, and when the nozzle would get hot and he forgot to let go in time he'd screech himself raw and do the skirt dance, to the immense delight of his funny neighbors. Another built a shed over his stillborn vegetables, while still another covered his with old overcoats, trousers and waistcoats. Nearly every farm resembled a Baxter street coatery, pantry and vestry, and exultant citizens told each other, over the party line fence, that they'd got the bulge on the backward spring and that she could balk just as long as she derned please.

When Easter Sunday came and the seeds hadn't poked their snoots above ground the farmers began the poking seances again. They couldn't find the seeds. They had either been frozen or the citizens forgot exactly where they had placed them. Then there was more skirt dancing and, as the front lawn plants had also been nipped, the dance extended all around the house, and the deep bass and the falsetto ejaculations of dismay commingling the Annexed District became a howling wilderness. New flowers and new seeds had to be purchased, and it's dollars to doughnuts that both crops will come up and that every farmer in the section will have a beautiful mixture of produce when they show above the surface. It doesn't matter much, however, for the average amateur granger can't recognize the difference between dandelion and burdock and peas and onions, and it's even betting that after they have weeded their farms the weeds will remain intact and the vegetable greens will be over the fence the lick's out.

Transportation Building at the World's Fair.

The Transportation Building is exquisitely refined and simple in archetectural treatment although very elaborate in detail. In style it savors much of the Romanesque. The main entrance consists of an immense single arch enriched to an extraordinary degree with carvings, basreliefs and mural paintings, the entire feature forming a rich and beautiful, yet quiet, color climax, for it is treated in leaf and is called the Golden Door. The remainder of the architectural composition falls into a just relation of contrast with the highly wrought entrance, and is duly quiet and modest, though very broad in treatment. It consists of a continuous arcade with subordinated colonnade and entablature. Numerous minor entrances are from time to time pierced in the walls, and with them are grouped terraces, seats, drinking fountains and statues. The interior of the building is treated very much after the manner of a Roman basilica, with broad nave and aisles. The roof is therefore in three divisions. The middle one rises much higher than the others, and its walls are pierced to form a beautiful arcaded clearstory. The cupola, placed exactly in the center of the building and rising 165 feet above the ground, is reached by eight elevators. These elevators of themselves naturally form a part of the Transportation exhibit, and as they also carry passengers to galleries at various stages of height, a fine view of the interior of the building may easily be obtained. The main building of the Transportation exhibit measures 960 feet front by 250 feet deep. From this extends westward to Stoney Island avenue an enormous annex, covering about nine acres. This is one story only in height.

Popularity of the Carnation.

The old home of the carnation is on the walls of castles and other famous buildings in Great Britain. It is a single white fringed flower, comparatively small and far from being showy, but always attracted attention on account of its remarkably sweet odor. It is said that when the Romans invaded Britain they were so struck by its sweetness that it was carried to Rome and by the Roman florists vastly improved. This was the first given of the cultivation of the carnation. It soon became very popular and was used extensively in making wreaths and garlands to crown the gods on festival days and to be worn as chaplets by conquerors and others on great occasions. It was called the flower of the gods, in consequence of this popular use. Our botanical name Dianthus literally expresses this fact. It is worthy of note that, although having been in cultivation for nearly two thousand years, it still retains its great hold on popular affection; indeed, its popularity has grown remarkably since a variety was introduced several years ago which continued flowering during the latter part of the season. This was owing to the production of branching stems from the flower shoots. The carnation of the last century did not do this; it simply threw up a flower spike, produced its large and sweet flowers at the apex, and then was done for the season; but as soon as it commenced to throw out flower shoots from every joint, the class known as "winter blooming" was introduced. This has added so immensely to its popularity that now large houses are wholly devoted to the culture of the winter blooming carnation, and in spite of all the love that has been showered on the rose as a popular favorite the carnation stands its ground as an able competitor. There have been societies and periodicals devoted wholly to the encouragement of rose culture, and now the carnation has entered as a rival even in this field, and a society has been formed devoted especially to its interests. During the past few months a national carnation society has had its birth in Philadelphia, and promises to be quite as popular and as successful as any rose society ever was. There is a large field yet for improvement. At present there is no especial type to which the carnation improver breeds, everything seeming to be left to haphazard and the momentary popular taste, the great effort of florists principally being to produce a kind that

will produce an enormous quantity of bloom at the smallest possible cost. There is no doubt, however, that under the encouragement which such a society will give it we may look eventually for beautiful forms and characteristics in these flowers, which no one is thinking of at the present time.—*Meehans' Monthly.*

Directory Leading Horticultural Societies.

We give below a list of horticultural societies that make plants and flowers a leading feature of their exhibitions, with the name and address of the secretary of each society. If there are any other societies that should be added to this list we ask to be advised of same, that we may make such addition. We believe a complete list will be of interest to many:

MASSACHUSETTS HORTICULTURAL SOCIETY.—Robert Manning, sec'y, Horticultural Hall, Tremont street, Boston, Mass.

PENNSYLVANIA HORT. SOCIETY.—D. D. L. Farson, sec'y, Horticultural hall, Broad street, Philadelphia, Pa.

RHODE ISLAND HORT. SOCIETY.—C. W. Smith, sec'y, 55 Westminster street, Providence, R. I.

WESTERN NEW YORK HORT. SOCIETY.—John Hall, sec'y, Rochester, N. Y.

CENTRAL NEW YORK HORT. SOCIETY.—H. Youell, sec'y, 228 Beecher street, Syracuse, N. Y.

WORCESTER COUNTY HORT. SOCIETY.—Edward W. Lincoln, sec'y, 5 Oak street, Worcester, Mass.

HARTFORD COUNTY HORT. SOCIETY.—Edwin A. Taylor, sec'y, box 1,015, Hartford, Conn.

HAMPDEN COUNTY HORT. SOCIETY.—George D. Pratt, sec'y, 192 Maple street, Springfield, Mass.

HORT. SOCIETY OF CHICAGO.—G. L. Grant, sec'y, 322 Dearborn St , Chicago.

NEWPORT HORT. SOCIETY.—John Butler, sec'y, Newport, R. I.

NEW ORLEANS HORT. SOCIETY.—Charles A. Wise, sec'y, Third and Prytania Sts., New Orleans, La.

SPRINGFIELD AMATEUR HORT. SOCIETY.—G. H. Lapham, sec'y, Springfield, Mass.

BRIDESMAID,

THE SENSATIONAL ROSE

OF THE COMING WINTER.

WATCH IT.

LAST WINTER'S RECORD.—First: A FAST COLOR in all weather. Second: Absolute exemption from malformed blooms. Third: Always selling for fifty per cent more than any other roses of the Mermet class. Fourth: Exhibited once; at Philadelphia; winning both Certificate of Merit and a First Premium.

NOTE.—The Shape of the Bridesmaid is the same as that of The Bride. Its peculiar pink color is distinctively its own, and weatherproof. The bushes are robust, have never had mildew and have not been overtaxed for cuttings. They are free bloomers. For an independent description of it see AMERICAN FLORIST for April 21st, page 828, top half of first column. The young plants this season have been distributed from California to France; but chiefly in northern New Jersey and northern Ohio. Some splendid plants remaining. For references, consult neighboring rose growers.

From 3-inch pots:		From 4-inch pots.	
12 plants	$ 9.00	1 plant	$ 1.50
50 plants	25.00	12 plants	15.00
100 plants	40.00	25 plants	25 00
250 plants	90.00	50 plants	40.00

"This is the most beautiful pink rose known."
John N. May.
M. A. Hunt.

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All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

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	Per 100
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Full stock of leading kinds, 2½ and 3½-inch sizes, extra stuff.

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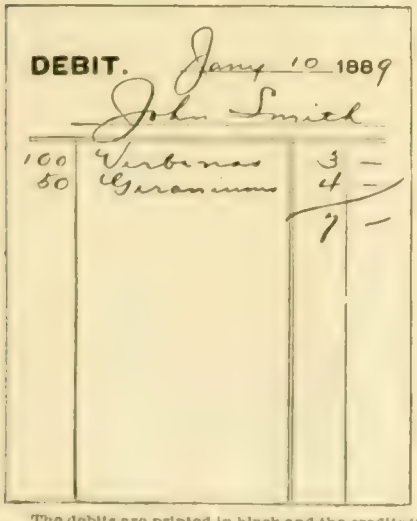
3000 LIZZIE McGOWAN, 2-inch..... 4.50
" " from flats... 4.00

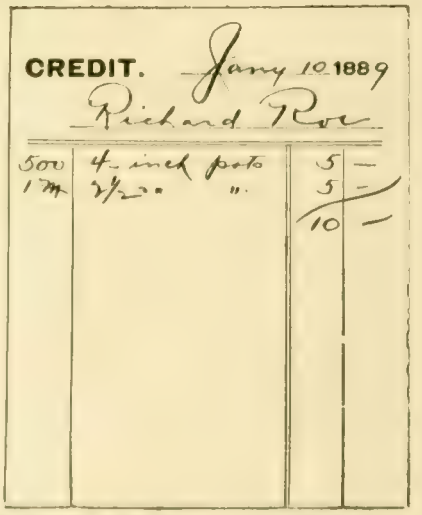
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GREENHOUSES, WESTERN SPRINGS.

Mention American Florist.

We can now furnish in any quantity desired Debit and Credit Tickets of which we give below samples reduced one-half in size.





The debits are printed in black and the credits in red, so they can be readily distinguished. They are put up in blocks of 100—50 of each, placed back to back; thus but one block will have to be carried. By means of these tickets an entry of a sale or receipt of goods can be made anywhere in the house or in the field and afterwards filed. Tickets for each transaction in your business will make data from which a bookkeeper can readily work. With this simple and easy means of keeping a record of your business can you afford to neglect so important a matter?

Price of Tickets, postpaid, 100, 20c.; 200, 35c.; 300, 50c.; 500, 75c.; 1000, $1.40.

AMERICAN FLORIST CO.,

322 Dearborn Street, CHICAGO.

OUR NEW TRADE DIRECTORY

—AND—

Reference Book

FOR 1892

IS NOW READY.

It contains an accurate list of the Florists, Nurserymen and Seedsmen of America; the statistics of the Florist, Nursery and Seed Trades from the last U. S. census; a complete list of all National and Local Trade Organizations, with just the information about each that you want convenient for reference; alphabetical lists of Roses, Chrysanthemums and Carnations, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

YOU CAN'T AFFORD TO BE WITHOUT THIS BOOK.

Price, $2.00, Postpaid.

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ROSES.

We offer **below** Roses, from 2-inch pots, at $30.00 per 1000, our selection; and $40.00 your own selection.

Reine Olga Wurtemburgh	Chas Rovolli
Pride of Washington	Sombreuil
Triumphant	Mme. de Watteville
Etoile de Lyon	Marechal Niel
The Bride	Gloire de Dijon
Mlle. F. Kruger	Lady Washington
Compte de la Barth	Queen's Scarlet
Hermosa	A. D Charles
Malmaison	Louis Phillip
Perle des Jardins	Pink Daily
Waban	Mme Alf. Carrier
Catherine Mermet	Mlle Anette Seaut
Marie Guillot	Tennessee Belle
Mlle. Laurette Massimy	Bennett's Seedling
Miss Edith Gifford	Champeny
Bon Silene	

Below sorts we offer at $5.00 per 100, or $45.00 per 1000.

Mme. Laing	Boule de Niege
Perle des Blanches	Glory of Cheshunt
Anna de Diesbach	Boildieu
Pæonia	Louis Van Houtte
Gloire Lyonnaise	Gen. Jacqueminot
Count of Oxford	Magna Charta
Marie Baumann	Mme Victor Verdier
Coquette des Blanches	Pride of Waltham
Coquette des Alpes	Anton Verdier
Lady Emily Peel	Etc., Etc.

Roses are in fine condition and will give satisfaction. Sample mailed if desired.

ADDRESS **NANZ & NEUNER,**
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ROSES.

From 2½-inch pots now ready for delivery. We will sell Brides, Mme. Cusin, Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban, La France and American Beauty, $10.00 per 100. Climbing Perle and Climbing Niphetos, at $12.00 per 100.

CHRYSANTHEMUMS,
leading varieties, 2½-inch pots, $5 per 100.

We are headquarters for the Meteor and Climbing Perle des Jardins.

ALL FINE HEALTHY STOCK.

JOHN HENDERSON CO.,
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✻ ROSES. ✻

We have the finest plants and largest assortment in 2½-in. pots ever in the northwest.

	Per 100		Per 100
Waban	$6 00	Niphetos	$ 6 00
Mme. de Watteville	6.00	Sunset	6 00
Wootton	6.00	Bride	6 00
Meteor	6 00	Perle	6 00
Mme. Hoste	6 00	La France	6 00
Mermet	6 00	Am Beauty	10.00
Duchess of Albany	6.00	Mrs. J. Laing	10.00

Also a large stock of VERBENAS, at $4.00 per 100.

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ROSE PLANTS.

All the Standard Varieties, best for forcing. Strong, healthy plants in 2-inch and 3-inch pots propagated and raised from best wood. Price list sent on application.

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IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

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2c. Roses!

From 2½-inch pots,	$2 50	per 100;	$20.00	per 1000	STRICTLY
" 3½-inch "	3.50	"	30 00	"	OUR SELECTION.
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We are selling plants at these low prices to obtain room and to favor you with the opportunity of ascertaining the quality of the stock we are growing, which is equally as fine as any in the country, all strong, healthy plants, free from disease. Send in a trial order and be convinced.

ALL ORDERS FILLED FROM THE FOLLOWING NEW AND STANDARD VARIETIES:

Waban	The Bride	Duke of Edinburgh
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Mme. Joseph Schwartz	Marie Baumann	Bona Weilischott
Adam	Ferdinand de Lesseps	Pink Rover
Mme. Margottin	Earl of Dufferin	Esmeralda
Mme Scipion Cochet	Gloire de l' Exposition de Bruxelles	Reine Nathalie de Serbie
Princess Beatrice	Gustave Piganeau	Mme. de la Collonge
Ernest Metz	Mme Renahy	Viscountess Folkestone
Souv de Doctor Passot	M. L. de Vilmorin	Eugene Guinoiseau
Chromate'la	Prince Camille de Rohan	Reine Marie Henriette
J B. Varrone	Eugene Furst	Solfaterre
Mme. Martha du Bourg	Duke of Teck	Mme. Gustave Gossard
Souv. d'Auguste Legros	Elizabeth Vigneron	Washington
E. Sablayrolles	Duke of Connaught	Tennessee Belle
Mme. Cusin	Marie Rady	Baltimore Belle
Duchess Marie Salviati	Eugenie Verdier	Greville or Seven Sisters
Georges Farber	Maurice Bernardin	Agrippina
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We wish to call especial attention to our Mermets and Brides, of which we have a fine and large stock in 2½-inch pots, at above prices.

All our Hybrid Perpetuals are in 3½ and 4¼-inch pots ONLY.

THE NATIONAL PLANT CO., Dayton, Ohio.

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Headquarters for the New and Beautiful **TEA ROSE WABAN.**

Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

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Forcing Roses.

All the leading varieties—Beauty, Guillot, Bride, Mermet, Perle, and others now ready for shifting. You will find it to your advantage to plant nothing but carefully selected stock.

Send for list before placing your order. **M. A. HUNT, TERRE HAUTE, IND.**

ROSES.

100,000 Roses for florists' planting, strong, healthy plants of the leading varieties for forcing. Per 100, out of 2½-in. 3-in. 4-in.

PERLE, SUNSET, WABAN, LA FRANCE	$ 6.00	$12.00	$15.00
MERMETS, BRIDES, NIPHETOS, PAPA GONTIER, MME. CUSIN, MME. WATTEVILLE, MME. HOSTE and GEN. JACQUEMINOT	5 00	9.00	12 00

20,000 CHRYSANTHEMUMS, 100 varieties, including Novelties of '92, and the best standard sorts. Send for catalogue.

A. N. PIERSON, Cromwell, Conn.

ROSES.

TEAS $30.00 per 1000
HYBRIDS 40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

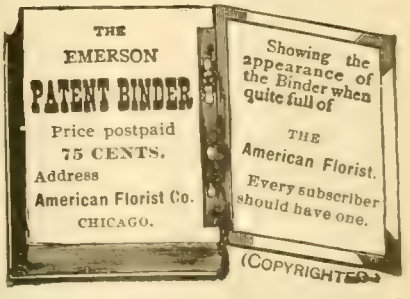
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The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100, Waban, $6.00; Duchess of Albany, and Meteor, $5.00 per 100; La France, Bride, Sunset $5.00 per 100; Perle, Mermet, $4 50; Bennett, $8 00 per 100.

Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A GENERAL INTRODUCTION.

There has been some little complaint of the difficulty of identifying those we would like to meet and become personally acquainted with at the annual conventions of the Society of American Florists. Various plans to make identification easier have been suggested, but all have either been impracticable or have had some objectionable feature that militated against their adoption.

The AMERICAN FLORIST proposes to solve this problem in a way that will we believe be eminently satisfactory to every member of the society, and without any expense to that organization. Our plan is to print in our convention supplement portraits of every member of the Society of American Florists who expects to be present at the Washington meeting. Of course, in order to give space to such a large number, each one will be reduced in size, but they will be good portraits and large enough so that the originals may be readily recognized from them. These portraits will be numbered consecutively and the names given opposite their respective numbers on an adjoining page, and there will also be given in the supplement an alphabetical list of the names, referring to the portrait by number, so that reference from and to the portraits will be quick and convenient.

If you expect to be present at the Washington meeting next August, and are a member of the Society of American Florists, or expect to join at Washington, please send us a recent photograph of yourself, cabinet size preferred. If you have no recent photo, have one taken. This should be attended to now, for with the great amount of engraving that will have to be done we must have the photos in hand by July 15 at the latest. And do not send photos that need to be returned to you as they will have to be cut in arranging in the groups. If you have a good recent photo send it in to us now, always writing name and address on the back.

THE summer course in practical horticulture for 1892 at the Bussey Institution of Harvard University opens July 6. For a synopsis of the course, both lectures and field work, address Prof. B. M. Watson Jr., Jamaica Plain, Mass.

W. H. H.—It depends entirely upon circumstances. The matter has been thoroughly discussed in these columns. Look up your back numbers. Your method of cleaning flues has also been described before.

THE Fort Worth Nursery and Seed Co., Dallas, Texas, send us a dozen Cape Jessamine buds of extra size and with very handsome foliage. They came through by mail in excellent condition.

WE HAVE received from Mr. S. J. Galloway, Eaton, O., a sample of the straw mats for use on hot-bed frames, which he is manufacturing. It was well made and would apparently meet all requirements.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By Scotch florist of 20 years' experience in rose and carnation growing and general floral work. Good references; strictly sober; single. Address
GEO. MILTON, 187 Water St., Newburyport, Mass.

SITUATION WANTED—By first-class rose grower, to take charge of a commercial place. Good designer, decorator and all-round man; 18 years' experience; married; sober and energetic. References given. Address S P, care American Florist.

SITUATION WANTED—By a sober and willing man; age 24; June 5 or 15, on florist, nursery or private place; speaks English and German. Expect good wages. Prefer California or the west. Address G. RENTSCHLER, 4057 Louisiana Ave, St. Louis, Mo.

SITUATION WANTED—By gardener and florist; thorough, practical man; fully competent in all its branches; care of a gentleman's private or commercial place. Age 35. Roses, carnations, violets a specialty. Very best references Address
W. G. NEW'S COMPANY'S STORE, Elizabeth, N. J.

WANTED—A good manager for a cut flower department in a Wabash Ave. store, Chicago. Address, stating experience and references,
Z R, care American Florist, Chicago.

WANTED—A No. 1 experienced rose grower. Steady position to right party. Address, giving references, wages expected,
R. J. MENDENHALL, 15 4th St, Minneapolis, Minn.

WANTED—At once; a reliable single man, for growing general stock of plants, and with fair knowledge of cut flower work. Wages $30 per month and board at best hotel in city. Address
DAVIS & SONS Morrison, Ill.

WANTED—A single young man aged between 20 and 30, for general greenhouse work. State experince, and wages expected. A good opening to learn the cut flower trade Address
I L, Tacony, Philadelphia, Pa.

WANTED—A No. 1 salesman, to travel in seed business Must be experienced. Unexceptional opportunities to right man. Address with references,
L L MAY & CO.
Wholesale Seedsmen, St. Paul, Minn.

WANTED—Sober, reliable man with fair knowledge of rose growing, on commercial place; also capable of taking charge when required. Address
B, care Geo. Anderson,
5230 Woodland Ave, Philadelphia, Pa.

WANTED—A first-class working florist; thorough knowledge in growing roses, carnations, cut flowers and general stock. Address, giving age, references and wages expected
F. W. WRAMPELMEIER, Louisville, Ky.

FLORISTS—Mail your catalogues, also quote Apple geraniums to
VINEVILLE GREENHOUSES, Macon, Ga.

FOR SALE—Second-hand glass, 25 to 30 boxes each, 10x15 and 8x10 double thick ground glass. No broken or cracked lights. $2.00 per box.
Box 234, Lee, Mass.

FOR SALE—Two greenhouses 60 x 16 each, hot water, sheds, office, etc, on three lots fronting Windsor Ave., convenient to Linwood Cemetery, with electric cars passing frequently.
N. METTEL, Dubuque, Iowa.

FOR SALE—Well established and centrally located florist business, including residence, lot 100x134, greenhouses, boiler, etc., and choice stock, in a city of 50,000 population. Reason for selling, death of late proprietor. A splendid opportunity for a man of small capital. For further particulars address,
FARMER & FARMER,
Solicitors for administratrix, Hamilton, Ontario.

WANTED.

An active business partner with capital of from $3,000 to $5,000 in Greenhouse and Seed Business. A fast growing northern town of 30,000. Flower business quite new in the locality. A large and rapidly settling territory to be supplied from this point with seeds, plants and flowers. Eight or ten towns of 4000 or 5000, and a great number of smaller places are tributary to it. On application from a practical florist with the above capital, catalogue for 1892 will be sent, and full particulars given. Change of business in July or August. Address
NORTH, care American Florist, Chicago.

WANTED.

As head porter and packer in a large Seed Warehouse, an active, sober, intelligent man. To such, a good situation is offered. State experience, references and wages expected. Address **H. P.**
Postoffice Box 2449, New York City.

FOR SALE—Greenhouse Fixtures.

94 Windows—several uniform sizes; 18 windows—odd sizes; all painted and in good condition; containing about 2,400 feet 8x10 glass. Also water heater and about 850 feet iron pipe with connections and valves. Must be sold to close out business. A splendid opening for a good greenhouse commanding extensive sales of cut flowers and designs.
The above fixtures will be sold cheap—at a single sale or in parcels to suit purchasers. For further information, apply to **H. PFUND,**
Executor of Fred Scheibel dece'd. Madison, Wis.

FOR SALE.

Nine greenhouses, containing 16,000 feet, of glass, with 8 lots of land, each 40x175 feet elegant dwelling with 11 rooms; barn, wagons, cart, horse and harnesses. The above property is located in one of the most beautiful western cities, within 5 miles of the city hall, within one square of electric and cable cars: the same will be sold cheap, as the owner is not able to run the same himself. The above houses have only been built 5 years; modernly constructed, 12x18 double thick best quality glass; heated by steam; abundance of water both from wells and cisterns. They are filled with palms, ferns, roses, carnations and bedding plants of all descriptions and all will go with them. Address
J M, care American Florist, Chicago.

FOR SALE.

Nine greenhouses containing about 16,000 feet of glass, ½ oest double glass; all houses rebuilt 4 years ago; heated by hot water—use city water for watering—2 acres of land, 1 brick dwelling house with 8 rooms, 1 frame house of 4 rooms, stable, horse, harness, wagon, etc. The above property is located in one of the best commercial cities of the west, with a population of over 60,000, and within 1¼ miles of city hall; electric cars pass every 6 minutes direct to city hall and Union depot. The greenhouses are well advertised and enjoy a good patronage at home and from abroad, and now contain a good stock of cut flowers, decorative and bedding plants. Poor health causes owner to retire from business. Would also be willing to sell greenhouses and stock and lease grounds and one dwelling house for a number of years, with privilege to purchase at a fixed price when lease expires. A bargain to a man with small capital. Address BUSINESS,
care American Florist, Chicago.

CAPE JESSAMINE BUDS

Received Daily.

CHOICEST QUALITY. LOW PRICES.

Wisconsin Flower Exchange,
131 Mason Street, MILWAUKEE, WIS.

CAPE JASMINES.

We have **100,000 Cape Jasmine Cut Flowers,** of the large flowering variety, and are prepared to ship any quantity **any distance, with perfect safety.**

ORDINARY VARIETY.....$2.00 per 100
LARGE FLOWERING VARIETY, 3.00 "
Special prices in large quantities.

TRY THEM, the best selling cut flower in the market. Cash must accompany all orders.

Ft. Worth Nursery, Seed & Canning Co.
DALLAS, TEXAS.

CAPE JESSAMINE BUDS AND MAGNOLIAS.

Ready May 25th. Prices on application. Correspondence solicited.
MRS. F. A. GRANTHAM, Vaiden, Miss.

FRESH BOUQUET GREEN.

12 pounds for $1.00; 50 pounds, $3.50; 100 pounds, $6.00.
J. C. VAUGHAN, CHICAGO.
NEW YORK: 12 Barclay St.

FLORAL DESIGNS,

The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

YOUNG BROS.,

20 West 24th Street, NEW YORK CITY.

THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

E. H. HUNT,

WHOLESALE FLORIST

79 Lake Street, CHICAGO,

(Successor to Vaughan's Cut Flower Dep't.)

All Flowers in Season.

Full line of FLORISTS' SUPPLIES.

NOTICE.

We have the exclusive control of the largest crop of

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GROWN UNDER GLASS,

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BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.

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75 CENTS PER GROSS.

INDISPENSABLE TO THE RETAIL FLORIST.

Send for my Primer, free.

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Wholesale Markets.

Cut Flowers.

BOSTON, May 17.

Roses, Gontier, Niphetos	2.00@ 3.00
" Perle, Sunset	2.00@ 3.00
" Mermets, Brides	2.00@ 6.00
" Jacqs	8.00@12.00
" Brunners	20.00@25.00
Carnations, short	1.00
" long	1.50@ 2.00
Valley	4.00
Narcissus poeticus	2.00
Narcissus double	3.00
Harrisii lilies	8.00
Callas	8.00
Stocks	2.00
Candidums	2.00@ 4.00
Sweet peas	1.00
Gladiolus	10.00
Spiræa	3.00
Mignonette	1.00
Asparagus	50.00
Smilax	17.00@25.00
Adiantum	1.00

NEW YORK, May 17.

Roses, Bon Silene	1.00@ 2.00
" Gontiers	1.00@ 3.00
" Perle, Niphetos, Sunset	1.00@ 3.00
" Mermet, Bride Watteville	2.00@ 4.00
" Cusin, Hoste, Bennett	2.00@ 3.00
" La France	2.00@ 5.00
" Albany	2.00@ 5.00
" Beauties	5.00@25.00
" Jacqs	3.00@ 8.00
" Hybrids	3.00@20.00
Carnations, long	1.00@ 1.50
Smilax	10.00@20.00
Mignonette, Narcissus	2.00
Romans	2.00@ 3.00
Valley	2.00@ 4.00
Harrisii	2.00@ 4.00
Violets	.50
Sweet peas	2.00@ 3.00
Adiantums	.50@ 1.00

PHILADELPHIA, May 17.

Roses, Brunners	20.00@30.00
" Laings, Luizets	25.00
" Beauties	15.00@25.00
" Mermets, Brides	5.00
" La France, Albany	5.00
" Jacqs	8.00@12.00
" Cusins, Watteville	4.00@ 5.00
" Perles, Niphetos, Gontiers	3.00
Carnations	1.00@ 1.25
Sweet peas	2.00
Tulips	2.00@ 4.00
Harrisii	5.00
Smilax	20.00@25.00
Adiantums	1.00
Outdoor valley	1.50
Forced valley	5.00

CHICAGO, May 17.

Roses, Perle, Niphetos, Gontier	3.00@ 5.00
" Bon Silenes	3.00
" Mermets, La France, Hoste	4.00@ 5.00
" Bennetts, Dukes, Woottons	4.00@ 6.00
" Albany, Bride	5.00@ 6.00
" Am. Beauties	10.00@25.00
" Jacq	10.00@15.00
Carnations, long	1.00@ 1.50
" short	.75@ 1.00
" long fancy	2.50
Romans, Tulips, Narcissus	3.00@ 4.00
Valley	3.00@ 5.00
Callas	6.00@ 9.00
Harrisii	10.00@12.50
Violets	.75@ 1.00
Adiantums	1.00
Smilax	20.00@25.00

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WHOLESALE

FLORISTS.

1122 PINE STREET

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A complete line of Wire Designs.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

NEW YORK.—There is likely to be a shortage next year on some varieties of vine seeds, and white onion seed and pickling cucumbers is hard to get, and Stowell's evergreen corn is quoted by the trade as high as $3.50 per bushel. In many instances growers have sold so short that they are not prepared to increase contracts. Sweet peas, common sorts and mixed, have not shown the shortage which was anticipated early in the season. Stocks have been well cleaned up, however, and no white can be found. Caladium bulbs have sold unusually well, and the larger sizes are sold out. Few tuberose bulbs have been seen in the market this season that have been sound, all showing more or less decay. Some experts in the south are quoted as stating that the rot is an epidemic of the same nature as the potato rot, and that these bulbs must be grown for a time in a different locality and under different conditions in order to get rid of the trouble. White Roman hyacinths of the largest size have been sold so close already that those houses who did not place large orders early are sold out and will accept no more orders for that size. There is no prospect of an overstock of large Romans for some years to come.

SOME TIME AGO I wrote to Uncle Jerry Rusk for something nice for agriculture. After waiting two months I received the following: 1 pkt. Livingston's Perfection Tomato, 1 pkt. Hubbard Squash, 1 pkt. Radish French Breakfast, 1 pkt. Radish Purple Top Strap Leaf. Were they not liberal? I suppose these must be very choice as that is what I sent for. I presume that I will plant them as I happen to need some radish and squash. I call it a poor seed store that sends these varieties out for novelties. LONG ISLAND.

THE TENTH Annual Convention of the American Seed Trade Association will be held in Hartford, Conn., June 14 to 16. Headquarters at the Allyn House. An interesting programme which was prepared at the January meeting of the Executive Committee will be carried out. Efforts are being made to secure special railroad rates and if successful, members of the Association will be notified direct.

COLD, rainy and unseasonable weather has added further injury to the mail and counter retail seed and plant trade in addition to the discouraging April business.

YOU CAN never invest $2 to better advantage than in a copy of our new trade directory and reference book.

OUR NEW
TRADE DIRECTORY
AND
REFERENCE BOOK
FOR 1892
IS NOW READY.
Price, $2.00.
AMERICAN FLORIST CO., 322 Dearborn St., Chicago.

25,000 GLADIOLUS

		Per 100	Per 1000
10,000	**Red and Scarlet mixed,**	$1.00	$ 7.50
15,000	All Colors mixed,	1.25	10.00
1,000	Pink and Striped,	1.50	12.00
1,000	White and Light,	2.50	22.00

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IMPORTERS OF BULBS FOR FLORISTS,
1303 Market Street, PHILADELPHIA, PA.
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Send for Catalogue of
JAPAN BULBS, SEEDS, AND SHRUBS.
ARAUCARIAS,
AUSTRALIAN Palm Seeds,
CALIFORNIA BULBS AND SEEDS to
H. H. BERGER & CO.
ESTABLISHED 1878. SAN FRANCISCO, CAL.

OFFERS
Will be received for about 100,000 Harrisii Bulbs, all sizes; being balance for sale this season.
The undersigned is the only large grower in Bermuda with pure and unmixed stock.
No Flowers are ever shipped.
GEO. W. WEST, Shelly Bay, Bermuda.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN. CONN.

Daffodils. Daffodils. Daffodils.
Nothing can be more simply mentioned through the AMERICAN FLORIST than a statement that Wm. Baylor Hartland, Cork Ireland, can supply direct via Liverpool, Daffodil Bulbs prepared for forcing purposes in the States. References to some of the largest buyers on application, and bulb delivery guaranteed in August. A preliminary offer for Von sion, &c., post free. Packing, etc. on the most approved method for a long journey.
WM. BAYLOR HARTLAND, Ard-Caires, Cork, Ireland.

CHINESE PRIMROSE SEED.
Grown from the finest strains in cultivation. All large fringed; flowers and brilliant colors.
PRICES: Per packet 20 cts.
Six packets for. $1 00
Fourteen pkts. for.. 2.00

Pkt. No.	SINGLE FLOWERING.	Seeds
1	White	50
2	Dark red	50
3	Bright rose	50
4	Dark crimson, spotted white	40
5	Magnifica, white	40
6	White, striped and flaked with red	50
7	White, flaked with red, large yellow center	40
8	Chiswick, very dark red	50
9	Carter's blue, fine	50
10	Fern leaved, mixed colors	20
11	Crested leaved, flowers pink and white	50
12	Many varieties mixed	60
	DOUBLE FLOWERING.	
13	Bright rose	20
14	Pure white	20
15	15 varieties, single and double, mixed. $1 for	100

Per 5000 seeds, leading single varieties, $10.
All orders should be accompanied by cash. Drafts on eastern banks, and Money Orders made payable at the Shiremanstown, Pa. Postoffice, or Registered Letter will come at our risk.
Address HENRY S. RUPP & SONS,
Shiremanstown, Pa.

Always mention the AMERICAN FLORIST when writing to advertisers.

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Our Specialties for this Season will be

Small, pure white Hyacinths, to succeed the Romans.
Scarlet von Tholl Tulips, La Reine, Chrysalora and other market vars.
Double Von Sion Daffodils in any quantity.
Narcissus Bicolor Horsfieldii, Sir Watkin, Golden Spur, Poeticus ornatus, Albus plenus odoratus.
Gladiolus Colvilli alba and The Bride, both pure white.
Spiræa compacta multiflora and Spiræa astilboides, two new sorts now much in demand in Europe.
Scilla Siberica and other bulbs and bulbous roots for forcing, etc.

Our Catalogue for 1892 will be mailed free on application if not already received, which refers to prices, terms and other information.

SEGERS & CO.,
BULB GROWERS,
Lisse, near Haarlem, Holland, Europe.
Registered cable address SEGERSCO, Lisse, Holland.
ESTABLISHED 1874.

BULBS. BULBS.
We book orders now for
Lilium Auratum, Speciosum Album, Speciosum Rubrum, Longiflorum, etc., Chinese Narcissus and
CALLA BULBS.
Cycas revoluta, fine imported stems, 10 cents per lb. Araucarias and Australian Palm Seeds.
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C. G. VAN TUBERGEN, Jr.,
HAARLEM, HOLLAND,
Grower and cultivator of choice Dutch Bulbs, Hyacinths, Tulips, etc., etc.; also of various bulbous plants, guaranteed true to name. Beautiful and attractive for gardens and conservatories. Orders solicited. Catalogues free on application to his agents,
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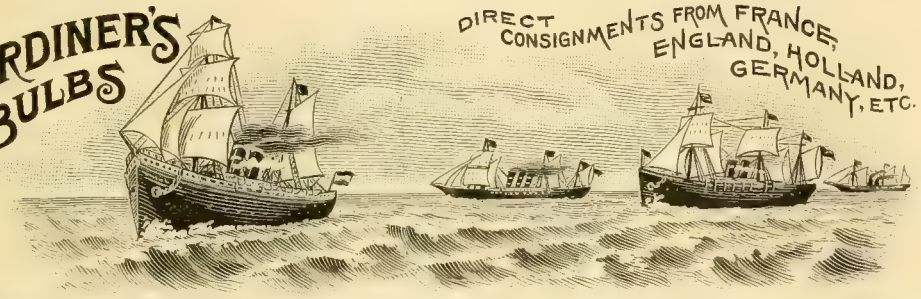
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LISSE, near Haarlem, **HOLLAND.**



WE can give you the inside track on forcing bulbs, both in quality and price. Write us at once. Special Wholesale Price List now ready. Don't fool with poor stock. Get your supplies from us.

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DIRECT FROM THE GROWER.

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We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendale and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,

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FORCING BULBS

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QUALITY OF STOCK WILL SUIT.

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ROMAN HYACINTHS, PAPER WHITES,

Lilium Harrisii, Berlin Pips Lily Valley, Tuberoses, Azalea Indica, etc.

PRICES QUOTED and ORDERS BOOKED FOR SUMMER AND FALL DELIVERY.

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OVERVEEN, near Haarlem, HOLLAND.

ESTABLISHED 1868.

Large grower of Hyacinths, Tulips, Narcissus, Crocus, Lilies, etc.

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Wholesale Importers should write us for Prices.

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Mention American Florist.

With Short Span to the South.

I notice in the Chicago notes in the FLORIST a report of Mr. George Miller's proposed experiment in building houses of three-quarter span style with the short span to the south. This style of building is not new. The original buildings of this style were erected by me nearly two years ago, and they have been very successful. Mr. Deuster, of Milwaukee, last spring adopted my plan and it was so satisfactory that he is now building seven more houses of same style. Mr. Miller called upon me and examined my houses and also visited Mr. Deuster and it is our success that has induced him to try this style of building so the step he is taking can hardly be called an experiment. This style of building has already been demonstrated to be the best for cut flower growing in winter. H. STAEPS.

Elm Grove, Wis.

A "Crazy" Canna.

One of our local papers announces with a flourish that a florist here has a "Crazy Canna" that has been named "Woodlawn Pet," and goes on to say that "it is not the old ordinary Crazy Canna, as instead of being bordered with yellow it has a streak in the center." But the "organ of progress" fails to state whether the plant is dangerous or may be allowed to run at large. It ought to be locked up pending an investigation. ED. KIRCHNER.

Winona, Minn.

Robert B. Young & Co.

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SHRUBS, ORCHIDS, ETC.

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Ornamental and Flowering Plants

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Chinese varieties in all the best colors, beautifully fringed.

Deep Crimson. Bright Rose, dble.
Carters Blue, excellent. Pale Blush
Rose Spotted White (fern-leaf) White.

These are the best six colors obtainable and will be put up in packages of 100 seeds for 35 cts. per pkg., or 20 cts. per pkg. of 50 seeds in separate colors.

PRIMULA OBCONICA, 25c. per trade pkg.

CALCEOLARIA Giant Hybrids, 35c. per trade pkg. With cash enclosed address

A. J. BINLEY, Glens Falls, N. Y.

PANSIES	$1 00 per 100
GERANIUMS, 4 inch	8 00 per 100
FUCHSIAS, 4-inch	7.00 per 100
BEGONIA METALLICA, 4 inch	1 00 a doz.
DAISY SNOWFLAKE, 4-inch	6.00 per 100
PYRETHRUM, 4-inch	.75 a doz.
CINERARIA MARITIMA, flats	1.50 per 100

Cash with order.

☞ Small Geraniums, Fuchsias, Alyssum and Lobelia and Carnations, sold out.

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First Quality (full size and weight), $1.10 per Bale.

Will contract for large quantities at a low figure.

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20,000 Verbenas.

THE CHOICEST VARIETIES IN CULTIVATION. Fine pot plants $2.50 per 100; $20 per 1000.

NO RUST OR MILDEW.

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PARONYCHIOIDES MAJOR and AUREA NANA, strong pot plants, $3 per 100; $25 per 1000. Packed light and satisfaction guaranteed. Send for circular.

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IN BUD AND BLOOM.

	Per 100	Per 1000
Mammoths. Large fine flowers	$ 3.00	$25 00
General Collection. Good collection	2.50	22 00

Roses. Fine, healthy stock from 2½-inch pots. Waban, Pearl, Mermet, Mme. Hoste, Sunset, Mme. Cusin, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, S. d'un Ami

	5.00	45.00
H. P. Roses, in bud and bloom, 4 and 5-inch pots, strong plants	$15 to 25 00	
Tea Roses, in bud and bloom, 4 & 5-in. pots, strong plants	$10 to 15 00	
Alternantheras, 4 vars., strong plants	4.00	
Cannas, strong started bulbs, 4-in. pots	8 00	
Tuberoses, " " " 4-in. pots	6 00	
Dracæna indivisa, strong plants	40.00	

☞ Send for price list of other stock.

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FISHKILL, N. Y

VERBENAS.

My Verbenas are perfectly healthy and include the Mammoths. From 2½-inch pots, $2.50 per 100; $20.00 per 1000.

PANSIES AND OTHER STOCK.

Pansies, fine clumps in bloom, $3 per 100; $25 per 1000
Pansies, second size, in bloom, $2 per 100; $15 per 1000.
Chrysanthemums, rooted cuttings, $2.00 per 100; $15.00 per 1000.

Address J. G BURROW, Fishkill, N. Y.

Vegetable Plants.

We carry a full supply of the best leading market varieties, and can ship carefully packed at the proper season. Special prices on application.

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FUCHSIAS. Storm King, Phenominal, Purple Prince, Elm City, Noveau Mastadonte, Black Prince, Chas. Blanc, Minnesota, W. E. Wait, $1.10 per 100 by mail.

HENDERSON'S NEW RED COLEUS

FIRE CREST.

I have a few plants in 2½-inch pots to offer at 60 cents per dozen.

CASH OR C. O. D.

SEND FOR LIST.

I will have a big batch of COLEUS in pots to offer after May 20th, at very low prices.

S. B. FIELD, Roselle, N. J.

Mention American Florist.

Tuberous Begonias.

SEEDLING PLANTS.

Single mixed	per 100	$2 50
Separate colors	"	3.00

BY MAIL.

Order now, they will stand better than later.

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OF BULBS AND ROOTS WE GROW IN LARGE QUANTITY.

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ALEPH	Single Tulips, Scarlet Van Thall	$ 4.50
BETH	" Artus, scarlet	6.75
GIMEL	" Chrysalora, yellow	17,50
DALETH	" La Reine, while	10.00
HE	" L'immaculee, white	14.00
VAU	" Proserpine, red and pink	25.00
ZAIN	" Rose gris de lin, white and rose	17.50
CHETH	Double Narcissus, albo pleno odorata	6 50
TETH	" " Von Sion, yellow	12 00
JOD	Single Narcissus, Poeticus ornatus	9.00
CAPH	" " Pseudo (Lent lily)	3.50

Cable Words.		Per 100
LAMED	Single Narcissus, Sir Watkin	$17.50
MEM	" " Golden Spur	8.00
NUN	" " Bicolor Horsfieldii	10.00
		Per 1000
SAMECH	Iris Anglica, Montblanc, white	$ 15 00
AIN	Gladiolus Colvilli alba	4.50
PE	" " The Bride	5.50
TZADDI	Hyacinthus candicans	6.50
KOPH	Scilla campanulata alba	6 50
RESH	Scilla siberica, blue	3.00
SCHIN	Spiræa compacta multiflora	45.00
		Per 100
TAU	Spiræa astilboides, new	10.00

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5000 DOUBLE NARCISSUS ALBUS PLENUS ODORATUS, white, at $6.50 per 1000.
500 SINGLE NARCISSUS BICOLOR HORSFIELDII, at $10.00 per 100.

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SEGERS & CO., BULB GROWERS, Lisse, NEAR HAARLEM, Holland, Europe.

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LILY OF THE VALLEY

FROM A RELIABLE QUARTER.

I offer for delivery from Nov. 15 to Dec. 15, the VERY BEST, THOROUGHLY MATURED, TESTED HAMBURG FORCING PIPS, f. o. b. cars Baltimore.

$1.25 per hundred.
$5.00 per five hundred
$8.50 per thousand.
$80.00 per ten thousand
} Order now and be sure you will be satisfied.

Special prices for larger orders.

THEO. ECKARDT,
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Bedding Plants Cheap.

ALTERNANTHERA from 2½-inch pots, two kinds, nice plants, at $2.00 per 100. 10 per cent. discount on large quantities.

Lots of WATER LILIES cheap.

F. J. ULBRIGHT,
. ANNISTON, ALA.

Roses. Orchids.

Mermets, Brides, and Mme. Hoste, strong plants from 2-inch pots, ready to shift into 3-inch, $4.00 per 100.

Send Stamp for Special Orchid Bargains.

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HARDY WATER LILIES AND LOTUS.

Egyptian Lotus (Nelumbium Speciosum), each, $1.50
Japanese Lotus (Nelumbium Nuciferum) " 1.50
Nymphæa alba candidissima 1.50
Nymphæa odorata rosea 1.00
Nymphæa Marliacea chromatella 1 50

Tropical varieties; Night blooming varieties, and other choice aquatics. Catalgues free.

WM. TRICKER, Dongan Hills, (S. I.) N. Y.

SPECIAL OFFER. Per 100

Var. Rose Geraniums, 2½-inch $ 5 00
Begonia Manicata aurea, 2½-inch 10.00
Begonia Rex, assorted 4.00
Bouvardia Elegans and Davisonii, root cuttings from flats 1.0

JOS. E. BONSALL & SON, Salem, O.

ROSES.

	Per 100 4-inch	Per 100 3-inch	Per 100 2-inch
Bride, Mermet, Niphetos	$10.00	$7.00	$3 50
La France, Albany, Perle	8.00		4 00

VERBENAS, $20 00 per 1000 2.50
Moon Vine, Manettia, Cobæa 4 00
Geraniums, Heliotrope 3 00
Snowflake Daisy, Chrysanthemums 3 00
PELARGONIUMS—Everblooming Fred Dorner, fine stock $10.00 per 100

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A NEW BEDDING BEGONIA.
THE BEST IN EXISTENCE.

Write for illustrated circular or send 50 cents for two sample plants. ☞ Photo of bed sent for six cents in stamps.

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PATERSON, N. J.

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—AND—

REFERENCE BOOK

FOR 1892

IS NOW READY.

It contains an accurate list of the Florists, Nurserymen and Seedsmen of America; the statistics of the Florist, Nursery and Seed Trades from the last U. S. census; a complete list of all National and local Trade Organizations, with just the information about each that you want convenient for reference; alphabetical lists of Roses, Chrysanthemums and Carnations, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

You can't afford to be without this book.

PRICE $2.00 PREPAID.

American Florist Co.,

322 Dearborn St., CHICAGO.

Michigan Floriculture at the World's Fair.

The first meeting of committee on floriculture of the State of Michigan was held at Lansing May 10, there being present C. L. Whitney, Muskegon; S. Taplin, Detroit; R. H. Mann, Lansing; H. G. Thornton, Ionia. John Irvine, Bay City, was absent.

It was proposed and strongly advocated by Chairman C. L. Whitney to exhibit a collection of dried specimens of the flora of Michigan, to send out circulars to the public schools through the state and get principals, teachers and pupils interested in the matter, and set them to collecting, drying and arranging such a collection of the plants in their vicinity. Then to bring the whole together, sort out the chaff and make one general collection, correctly named and arranged in proper form to be available to those who are interested in such matters.

Second proposition: To secure a suitable place for a collection of living specimens of the same class of plants.

Third proposal: To get the florists of Michigan to make an exhibit of plants and cut flowers for each week of the season, using such plants and flowers as grown by florists, and put them on exhibition for one week, selecting the week when they can be had in the greatest perfection. For example, one week for azaleas, one week for pansies, pelargoniums, etc. Later one week for gladiolus, one week for asters, etc. If response is favorable more definite arrangements will be made at next meeting.

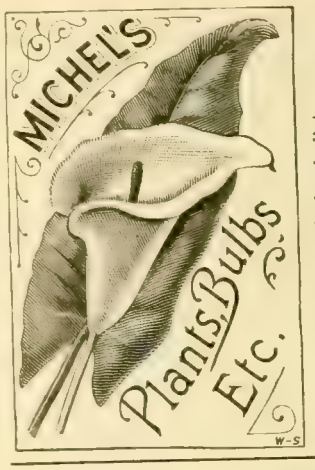
Fourth: A notice to be sent to all florists in the state as to the chances of making a general exhibit for the whole season of palms, dracænas and orchids, including a general collection of stove and greenhouse plants. Also to growers of specialties as to what they can do or are willing to do.

Chairman of committee instructed to prepare circulars for principals of public schools on dried specimen matter. Circulars to be prepared and sent to all florists on the matter of one week exhibit of each flower in season. Also as to what can be done in the way of a general collection of plants for the season. Then to find out if provision can be made at World's Fair for what can be done by the schools and florists, in way of taking care of such exhibits.

Next meeting will be called after sufficient time has been given for responses to circulars issued.

S. TAPLIN.

Detroit, Mich.



Write for wholesale list.

MICHEL PLANT AND SEED CO.,
ST. LOUIS, MO.

GEO. W. MILLER,
WHOLESALE * FLORIST,
1748 N. Halsted Street,
Chicago, Ill.
ROSES AND PALMS A SPECIALTY.

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GEO. HANCOCK, Grand Haven, Mich.
Mention American Florist.

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HINZE'S WHITE.....Per 1000, $10.00; Per 100 $1.25
Cash with order. Cuttings put in Jan. 1, on Feb. 8 99 per cent. were well rooted.
DE WITT BROS., BRISTOL, PA.

OUR CUT FLOWER BUSINESS
Demands all our growing capacity, we have therefore decided to close out our entire stock of plants this season. We start the ball rolling with the following. Speak quick if you want them:

	Per 100
Dahlias, single tubers	$ 3.00
Tuberous Begonias, from the finest European collections	5.00
Clematis, pot grown, 8-inch pots	40.00
Hydrangea Thos. Hogg, we have a lot in the right condition for Decoration day, 6-inch,	20.00
Rose, American Beauty, splendid clean young stock	8.00
Fuchsias, all the standard sorts ready for spring sales, 4-inch	8.00
Washingtonia Robusta, this is a splendid easily and rapid growing palm, it takes but a short time to make a good specimen. Should be in every greenhouse. We have a large lot of it in 4-inch pots, and in order to reduce stock will sell a quantity at	20.00
Latania Borbonica, we also have more of this elegant palm than we need and will sell a few 5 and 6-in stuff in fine condi ion	100.00
Chamærops Humilis, will sell a quantity of those for a short time, 4 inch stock,	15.00
Marguerites, large flowering white, bushes 2½ to 3½ feet high	15.00
Carnations, 5-inch, in bloom	15.00
Callas, 5-inch pots	9.00
" 6-inch pots	11.00
" 8-inch pots	15 00
" strong clumps from bed, not divided	25.00

Chrysanthemums. We have a large stock of the select varieties that are most desirable for the commercial florist. Give us a list of what you want in Chrysanths and let us make you a price on it.

Cut Flowers.
For the balance of this month we offer

ROSES—Brides and Mermets	3 00
" La France	5.00
" American Beauty	8.00
Carnations—Garfield, long	1.50
" Garfield, short	1.00
" Hinze's White, long	1.50
" Hinze's White, short	1.00

Bear in mind this stock is all grown on the place and handled but once. Cut flower buyers know the importance of this Stock guaranteed A1. No charge for packing.

Vases in Iron, Rustic, etc., best makes, will sell for a song to close out. Window Boxes, we still have a quantity left, if you want any this is the chance of a lifetime. Price 1c. per lineal inch in length.

ADIANTUM CAPILLUS VENERIS—
The coming Adiantum for the cut flower trade. The reasons why because it is
Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.
Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.
Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.
In buying see that you get the true variety, as it has many aliases. If you are short of room now we will book your order and ship any time up to May 15th. Price, strong plants, $8.00 per 100.

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ROOTED CUTTINGS.
CARNATIONS.
LIZZIE McGOWAN. More good and fewer poor points than any white Carnation ever sent out. Strong well rooted cuttings at $2.00 per 100.
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CANNA. Emile Leclaire, as pretty as an orchid, yellow with brown markings, $3.50 per 1000.
L. B. 338. ALBERT M. HERR, LANCASTER, PA.
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BOUVARDIAS,	$4.00
VERBENAS,	3.00
HYDRANGEAS,	5.00

DRACÆNAS Indivisa,
Latania Borbonica.
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The New Cannas, Mme. Crozy AND Star of 1891.

We have without question the largest stock of these New Cannas in the United States, and have probably more available stock than is held by all other American houses combined.

At the present time we have 300 running feet of greenhouse, 20 feet in width completely filled with these valuable varieties. The price of these Cannas may seem high, but we consider them the most valuable novelties that can be purchased by florists at the present time. Although these prices are high, we will not cut these rates, or sell for less than the prices here quoted this season, and will not unload them at the end of the season as is often done by many houses in the trade, to the injury of the purchasers who have bought early in the season at high prices. We consider these Cannas are worth fully all we ask for them to grow on for another season, and will guarantee buyers that we will not offer them at less prices than here quoted this season, so that buyers can purchase them with confidence. Every florist who has not secured a stock of these Cannas by this time, should do so at once. The demand for these New Cannas is increasing constantly for they are far superior to anything else in the French line, and it will be wise to invest in these to the exclusion of every other of the so-called French varieties that have been offered up to this time. They are head and shoulders above everything else. Send in your order at once, and secure the stock while we have it, for while our stock is large, we do not think it will equal the demand before the season of 1892 is ended. Our plants are *extra strong* and well established, with fine tops, from a foot to 18 inches in height, and can be shipped either from pots, well established, with a fine ball of earth attached, or can be shaken out, and most of the soil removed, in which case they make a much lighter package. In ordering, please state which way you prefer to have the plants shipped you; for long shipments they can go as well with almost all the soil shaken out. Park and Cemetery Superintendents and florists generally should make large plantings of this stock, which will make a fine display for them, and the increase of the stock will be one of the best investments that can be made for another year.

The flowers of "Madame Crozy" are a flaming scarlet bordered with gold, a marvelous combination of colors, having all the delicacy and loveliness of the rarest orchid. It produces all the wealth, richness and tropical luxuriance of foliage of the common kinds, added to which is the gorgeousness of their flaming panicles of bloom, which are borne in immense heads at the terminus of every shoot. The individual flowers are five inches in diameter, and when the large size of the flowers and the large heads of bloom are taken in connection with the freedom with which it blooms, it makes one of the most attractive plants for bedding it can be possible to conceive of; it also makes elegant plants for the conservatory both summer and winter—in fact it is one of the finest plants for conservatory decoration there is. Every shoot blooms, and as often as a head of bloom passes its prime another shoot pushes beyond it, and each shoot flowers three, four or five times in succession. As the plants are constantly throwing up shoots from the ground, they continue a mass of most gorgeous bloom.

The flowers of "Star of 1891" are not so perfect individually, but are equally brilliant and indispensable, as it is more dwarf in growth and can be used in planting with Crozy to advantage on this account.

PRICE OF MADAME CROZY, $60.00 per 100.

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Colored plates of Madame Crozy mailed free. Can be supplied in any quantity. Trade lists on application. Address

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Paterson, N. J.

Among the many flourishing towns in the vicinity of New York city Paterson makes a most encouraging showing for the trade; all the dealers there report brisk and increasing trade. Easter was the busiest season known, though, unlike many other places, cut flowers went ahead of plants.

There is an increasing trade noted in fine shrubs; to meet this demand Joseph Towell has just been importing a lot of fine ornamental maples direct from Japan. Mr. Towell has recently moved into a handsome new store to keep in line with his large trade. Among things noted at his place was carnation Alegatiere in fine condition; Mr. Towell has grown this for several years and finds no other scarlet suits him so well.

At Mr. Chitty's there was a bewildering array of carnations, Lizzie McGowan being much in evidence. Mr. Chitty is increasing his carnation houses, intending to drop other stuff for his specialty.

Another Paterson firm is Thurston & Sceery, whose greenhouses are at Ridgewood, N. J. They have a brisk and increasing trade, doing some fine decorating during the winter months.

It is a noticeable fact that all the growers around New York are dropping Asparagus tenuissimus entirely, only growing A. plumosus, which, well grown, sells profitably all the season.

Lime Water and Eel Worms.

I noticed the article in the FLORIST of April 7, page 794, concerning the use of lime in rose soil for the destruction of eel worms. My formula is from Peter Henderson, as follows: One peck of fresh lime to 50 gallons of water, stir well, when settled drain off the clear water and saturate the soil with it. I used it in my rose benches in late summer, thoroughly soaking the soil, eight or nine days apart, until it had four applications. The roses appeared to improve under the treatment.

But if the trouble spoken of appeared in the dark days of winter there would have to be considerable judgment used in applying the lime water just at the time the soil is almost dust dry, digging to the bottom of the bench to ascertain the condition. In treating solid beds it would certainly have to be done in the summer.

As to gas tar on pipes, I would use lard oil when the pipes were not in use for a few days; coat them thoroughly, leaving it on a week or ten days to soften up; then wash off with refined kerosine. The coal oil will soon evaporate.

Nashville, Tenn. W. D. BUCHANAN.

Asparagus Plumosus.

Nice plants, from 3-inch pots, $4.00 per dozen; $30.00 per hundred.

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FARMINGTON, CONN.

Surplus Stock.

	Per 100
5000 Yellow and Red Alternanthera	$2 50
5000 Echeveria	4 00
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5000 Pansies, fine strain	2 50
5000 Golden Feverfew	2.00
4000 Geraniums, sorts, 2½-inch	4.00

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GRAND NEW CANNA "VENTURA".

Habit distinct, largest flowers of any sort yet offered. Self color. A beautiful blending of carmine and scarlet. Petals 1¼ to 1½ inches across by 3 inches long, tapering to center of flower and curving gracefully outward. Spikes large; flowers not crowded; foliage handsome dark green with darker line on edge of leaves; height 3½ to 4 feet. Splendid bloomer; vigorous grower.

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SMILAX SEEDLINGS Beautiful stocky plants, for immediate potting, 75 cts. per 100; per 1000, $6.00.	

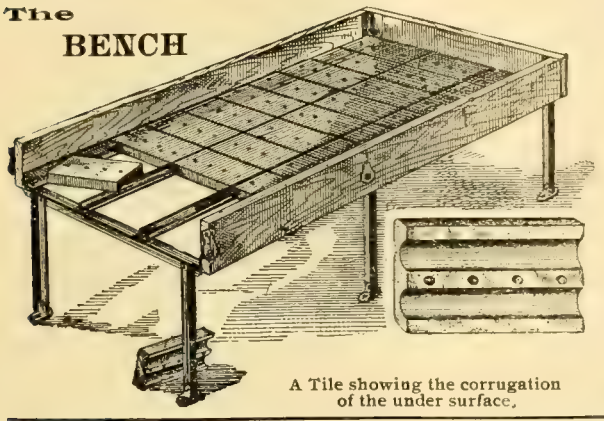
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" Assorted, 2-inch	3 cts
DAHLIAS—Choice asst., whole roots	6 cts
MONTHLY ROSES—For retail, 3 & 3½ in. pots	6 cts
New Gen'l Jacq and Countess of Murinais Roses left, dormant, 2 year.	
BOUVARDIA, from flats, $1.50 per 100.	

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The BENCH



A Tile showing the corrugation of the under surface.

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Now is the time to plant the following first-class Hardy Herbaceous Plants for florists' purposes. Once planted they live forever, and require no care, while they are very useful during the spring and summer months for cutting purposes.

Achillea "The Pearl," at 5c
" millifolia rubra, at 9c.
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" japonica alba, at 6c.
" Pennsylvanica, at 6c
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Good strong plants in quantities not less than **25** of each.

ARTEMISIA PONTICA, with fine silvery, fern-like foliage perfectly hardy, and exceedingly useful for bedding, especially for dry situations. $35.00 per 1000.

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VERBENAS for bedding purposes	$ 3.00
COLEUS Verschaffeltii and Golden Bedder, per 1000	$7.00
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TOMATO PLANTS, best vars., well hardened.	.90

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They are unbreakable, handsome, light, clean, durable and cheaper than earthen pots in first cost and freight. The best pot for market growers of plants who have to sell both pot and plant together.

Original Crates of	2¼	2½	3	3½	4	5	6 inch.
Hold	100	1000	1000	100	500	50	500 pots.
and Weight	19	23	32	42	32	44	61 lbs.

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	10 cts.	11 cts.	14 cts.	17 cts.	22 cts.	40 cts.	60 cts.
For 1 dozen	2¼-in.	2½-in.	3-in.	3½-in.	4-in.	5-in.	6-inch pots.

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Catalogue of novelties, including Begonias, Pelargoniums, Chrysanthemums, Gladiolus, Montbretias, etc., etc., can be had on application. Orders kindly solicited by their agents.

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SWEET ALYSSUM, dwarf, and MARITIMA, from 3-inch pots, $3.00 per 100.

Or will exchange for roses, carnations or bouvardia.

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Please mention the American Florist every time you write any of the advertisers on this page.

An Opinion From England.

The editor of the London *Horticultural Times* gives a very flattering notice of our new directory and reference book in a recent issue of his paper, and in a letter under date of April 14 he writes:

"Your directory is a very useful and admirable production, and from the valuable nature of its contents, to the classes catered to, I am convinced that it merits the great success it has secured. Certainly no florist, nurseryman or seedsman either in the United States of America, Canada or this country can afford to be without it, in addition to which it is produced in a thoroughly artistic style. We have nothing like it in England."

Dalmation Powder.

After the publication of Mr. R. T. Lombard's essay, in which he strongly recommended "Dalmation Powder" as an insecticide, we have received numerous inquiries as to where it could be obtained, and in response to a note Mr. Lombard writes:

"This powder is sold by most all seedsmen and druggists as 'Persian Insect Powder.' It is sold by our grocers as 'Dalmation Fly Powder.'"

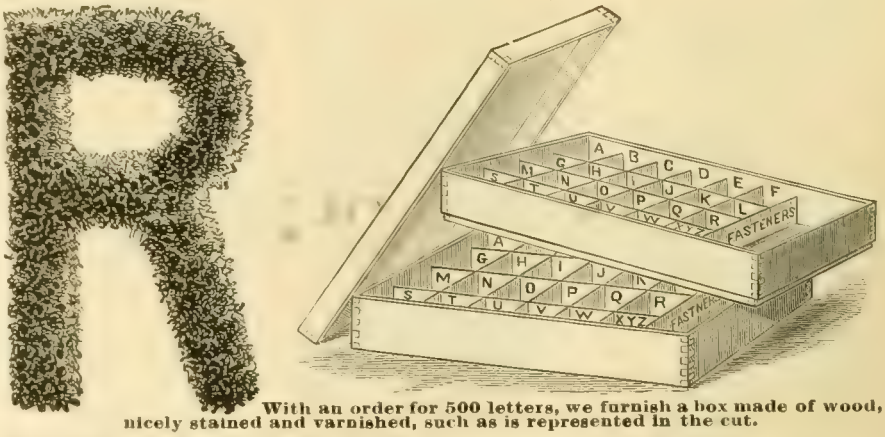
If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

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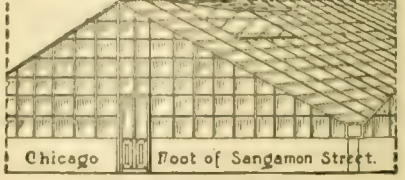
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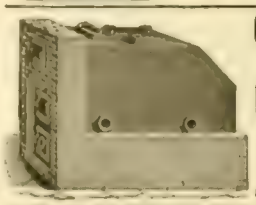

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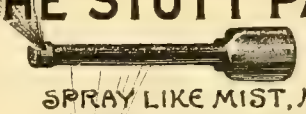
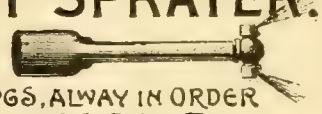
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Send for catalogue and price list.
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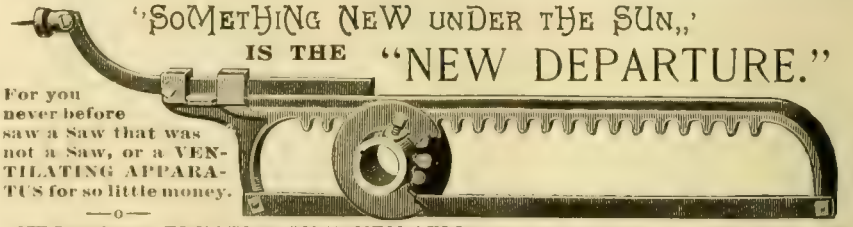
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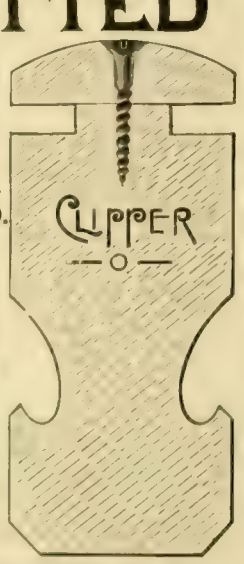
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FIRST-CLASS GOODS. LOWEST PRICES.
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Price list for any number.

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2¼ "	"	3.50	6 "	"	2 20
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SPRAY PUMPS
WILL KILL THE BUGS.
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HOT WATER HEATERS AND STEAM GENERATORS. SEND FOR CATALOGUE.
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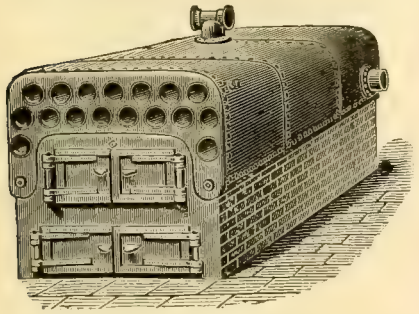
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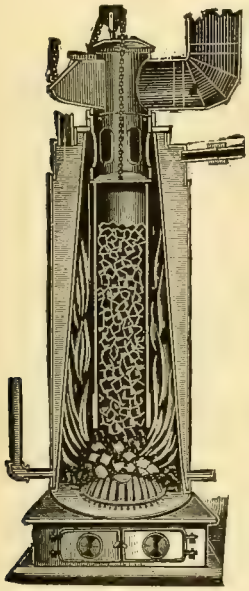
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Wrought Iron Hot Water Boilers



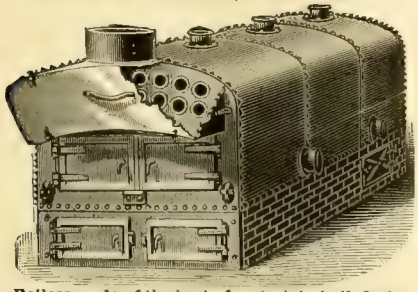
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FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
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IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



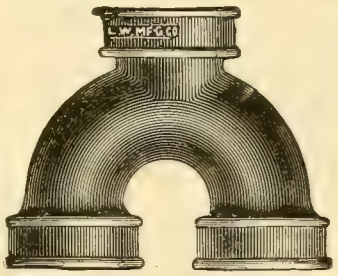
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For particulars, see next week.
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Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

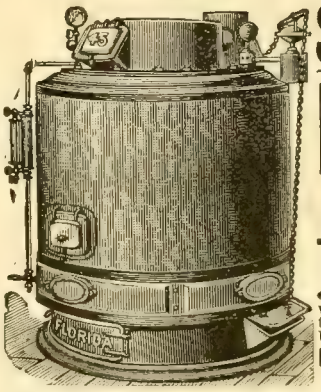
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FOR GREENHOUSES.
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For Your GREEN HOUSE, ROSE HOUSE, NURSERY,
Conservatory, Lawn, House, Garden, Stock or any other purpose,
WITHOUT EXPENSE OF TIME OR LABOR?
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Sizes, ⅛-inch to 42 inches diameter.
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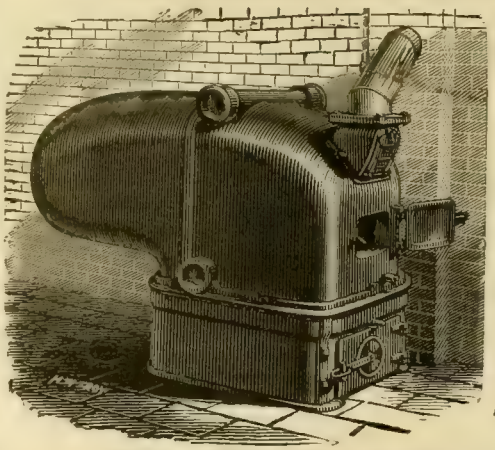
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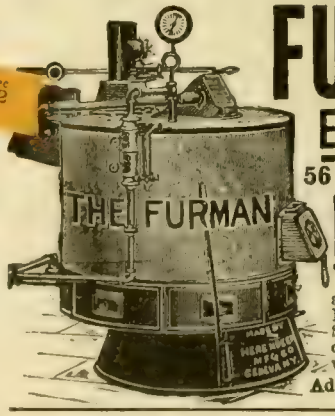
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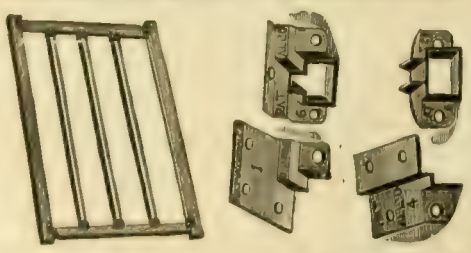


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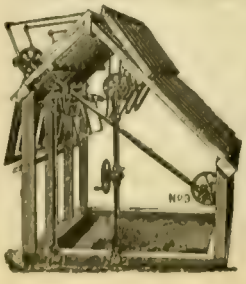


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Vol. VII. **CHICAGO AND NEW YORK, MAY 26, 1892.** **No. 208**

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IF YOU have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

Park Embellishment. Its Character and Use.

[*Read before the N. Y. Florists' Club by John R. Johnson, Supt. Parks, Paterson, N. J.*]

In dealing with the question of "Park Embellishment, its Character and Use" in this paper, the time at my disposal will not permit more than a cursory glance, in considering the effective, ornamental and useful decorating of a public park. So many and so varied in character are the requirements necessary for supplying the public needs for comfort and pleasure and instruction, it will be impossible to enter into all the details. As I have said before I will deal principally with its most essential principles.

In selecting a piece of land for a public park the idea conceived is to provide for the healthful recreation of all classes of citizens from the poor to the rich, a place where the toilworn artisan or tradesman, the cramped office clerk and the weary housewife, may repair to enjoy a breath of free, pure air; to inhale the fragrant perfume of beautiful flowers and to refresh and strengthen his toilworn senses with a glance at the bright colors of nature. This fact of what the place was originally intended for should be borne in mind and should guide somewhat the arrangement and decorating of the grounds. It will then be obvious that in order to carry out this idea great care should be taken in the arrangement; that everything which would be calculated to give the park a cramped, weazened appearance and character should be avoided, and free access should be readily obtained by means of good, wide, shady avenues and roads to all points of vantage. Probably one of the most important features in the construction of a park is good, solid, wide roads, and these being made essentially for use rather than show, should be so constructed as to be firm, smooth and dry at all seasons of the year. Carriage roads should as far as it is possible intersect with all the choicest places and in every case should be made to accomodate themselves naturally and unobtrusively to the shape of the ground, avoiding all steep and precipitous inclines. The grade should be so arranged as to alternately ascend and descend, offering thereby every facility for rapid and easy driving. So many things are to be studied in order to provide for the various notions of enjoyment entertained by the people interested. Some are of an athletic disposition, delighting in an ardent participation in all the manly sports of the day. This taste may be catered to by setting apart a corner of the park for a ball ground, cricket ground, etc. Others again delight in that quiet secluded spot where nature enchants the creature man; a place where they may enjoy in quiet contemplation the perfect forms of the trees and shrubs, the brilliant colors of the foliage and the various characteristics and fragrance of the choicest flowers. It should be a feature of the arrangement to separate these two as widely as it is possible to do so in order that the noise and naturally wild enthusiasm excited by an interesting competition of rival athletes should not interfere with the quietude of the student for knowledge or the calm relaxation from business toils and cares sought by those residing amidst the noisome, exciting whirl of daily city life. This leads to a consideration of the arrangements which may be made with a view to effectually separating the two. One very important thing that presents itself in connection with this consideration, and stands second only in its importance to good roads, is cool shade. Avenues of trees interspersed with irregular groups should run along the sides of all the drives and paths, shielding visitors from the burning rays of the summer sun. Great care needs to be exercised in the planting of trees, whether singly or in groups, so as to arrange them for picturesque effect. Besides the shade the object and use of planting is of a twofold character in its improvement and ornamentation of grounds. There is its use in concealing boundaries; in this respect by a judicious system of arrangement groups may be planned so as to present a pleasant interruption to the view and without seeming to terminate abruptly convey the impression to the mind of vastness of extent. The various points made by the curves in the roads or walks will present advantages for this purpose. Of course much depends on the character and elevation of the grounds surrounding these respective points. Various angles may be struck where groups may be advantageously placed, in order to preserve a fine piece of scenery from view until, the visitor turning a corner, the whole beauty of the scenery opens up to view, creating a novel and pleasing impression. Then there is its use in hiding from sight disagreeable views; the blocking out of range of vision outhouses, hideous fences, or any undesirable surroundings that may be found in the way and which it is impossible to remove. The grounds set apart for the various athletic games and children's playground should be effectually hidden from the principal points of view, away from the main entrances and drives and away from the choicest pieces of scenery that the park may contain. Groves of trees may be planted that would satisfactorily accomplish this, affording at the same time shade, and would in no way detract from the general appearance. The old adage of putting all the best oranges on the top of the box appears to me especially applicable to the park. Contending as I do that the first impression created on the mind of the general public is generally a lasting one, there-

fore I recommend a little extra care used in beautifying the entrance. Anything of an unattractive character should be removed, as far as consistent with the general surroundings. On each side of the drive greeting the visitor on entering should be arranged a shrubbery border tastefully planted with choice evergreens and intermixed with flowering shrubs, with here and there in the background a specimen deciduous or evergreen rearing it symmetrical and shapely head. A few herbaceous plants might be distributed through with striking and pleasing effect, and if care and judgment were used in the selecting of the various kinds in their order of flowering, a continual succession of flowers throughout the whole of the spring and summer months might be insured. A well kept turf edging, say from four to five feet wide, would give a nice finish to the whole. Following on beyond these borders might be located at irregular intervals a few choice specimen evergreens, conifers or deciduous trees, these ultimately merging into the general natural character of the park. A nice stretch of ground should be selected having pleasant surroundings and tastefully intersected by walks to display individual specimens and where effective groups might be displayed containing the choicest of evergreens and flowering shrubs. These should be so grouped as to show each individual plant or kind. Here could be located borders for herbaceous plants, and no park worthy of the name should be without a complete collection of the most useful kinds of this estimable and beautiful class of plants. In regard to the planting of trees for effect, judgment must be used in order to produce harmony and contrast. In many instances a more pleasing feature is procured by forming groups entirely composed of plants of the same species; the harmonizing of color and the similarity of form in habit and growth oft give more pleasure and appear more natural than when mixed with other kinds. However, in everything that is done in the way of planting on the formation of ground nature should be reproduced as much as possible. Every shrub and plant should be correctly named with botanic as well as common name, so that visitors may be doubly interested in admiring their beauty and being able to learn what they are. Where it is the good fortune to have a stretch of water in the park an additional enchantment is imparted to the scene, for there is nothing that contributes more to the beauty of the landscape than a good body of water, and in its tranquil depths may be grown the various forms of aquatic life so interesting not only to the experienced professional but to the casual visitor. The beautiful lotos, the fragrant nymphæa, the graceful papyrus, the curious floating eichhornias, with their hyacinth-like flowers of delicate hues—these with a host of others equally as pretty and curious impart to the whole an appearance of tropical grandeur. Another valuable contribution towards the embellishment of a park is the construction of a piece of natural rock-work where it is possible to do so. The banks of the lake oft present a suitable position to locate this, the calm water and the rugged sides of rockery, when planted with suitable plants such as kalmias, rhododendrons or the like, producing an harmonious and pleasing contrast. In conclusion I would say that I know of no place that offers more facility for the education of the masses in the knowledge of horticulture, more calculated to elevate the moral element in mankind, more likely to inspire the people with a desire to study the beauties of nature when combined with art, and to reproduce around their homes what they have seen there. No city park is replete without a complete collection of all the choicest and useful trees, shrubs and plants that are hardy or that may be preserved with a little protection during winter. The question of cost is of no importance as compared with the pleasure and instruction they impart, and it is moreover a credit to the city and its residents, and, handed down to generation after generation, a monument of their ancestors' forethought and wisdom.



Packing Roses.

This is a matter of more importance than many suppose, particularly when the plants have to travel long distances. There are two main considerations to bear always in mind; first, that the plants shall arrive at their destination in the best possible condition, and second, that the package be as light as possible, for the express companies now charge full first class rates on all shipments of plants, and double first-class rates on any packed without a firm cover over them, as they claim such cases take much more room, as nothing can be placed on top of them.

The style of packing most generally in use for this class of plants, is what is known in the trade as close, tight packing, and for all seasons excepting during very warm weather it is very much the best. Take boxes about the size required to hold the number of plants ordered; but these should not as a rule be more than eight inches deep. If the weather should be very cold, carefully line it with two thicknesses of good stout paper, then a thickness of cotton wadding, covering this again with another stout course of paper, taking care that all joints are well overlapped. It is best to fold the sheets of paper so that each is slightly longer than the sides or ends, press them in close to the corners, then cover the bottom in the same way; this done, the box is ready to receive the plants; these should first be wrapped singly in a piece of brown straw paper of suitable size, to go twice around the ball of earth and covering at least a part of the foliage. Commence placing a row of plants across the end of the box, with the tops facing toward the center of the box; place each ball as close to the next as possible without pressing the soil out of shape; this done, commence another row across the box, laying them as closely to the first row as possible; the paper which partly covers the foliage will protect it from injury. After placing two, three or four rows across, according to the size of the plants, commence the next row by reversing the plants, laying the tops over the balls of the last row and continue doing so until the whole layer is completed, and should there be any small space at the finish not quite filled up, pack this tight with a little moss, excelsior or like material. Cover this bottom layer over thinly with the same class of material, then commence with the next layer at the same end the bottom layer was finished at, and pack exactly as the first was done, finishing off in the same way, and continue doing so until the box is quite full, which for two-inch stock will be about four layers of plants; then cover with paper, etc., the same as the box is lined with, bringing the side papers over on top of this again, which, when the lid is nailed on tight makes a very close, warm covering. Before the covering is put on, and with the last plant put in the box, be sure a label with the name of the variety plainly written on it is placed with this plant. Where several varieties have to be packed in the same box, each and every variety should be distinctly labeled, and a sheet of paper differing in color to the general packing paper placed over the last variety packed before commencing with another. I prefer a sheet of newspaper doubled for this purpose, allowing it to overlap considerable of the last sort placed in the box, which clearly indicates to the person unpacking them, that there is a division intended here.

As soon as all danger of frost is passed, this lining of paper, etc., can be reduced, and in warm weather is better dispensed with altogether. For very long distances in extremely cold weather, it is advisable to put an inch of dry sawdust all around the outside of the paper lining, or rather, between it and the box; this will effectually stop any frost from getting into the plants, even if exposed for two or three hours to zero.

As the season advances to July or August, there is considerable danger in packing plants tight as above, on account of their liability to heat. To avoid this, we prefer to take a box deep enough to allow the plants to stand upright in without breaking their tops; wrap each plant singly as above, then commence at one end, stand the plants upright, and where they are large plants placing two rows, one plant resting on and standing between two of the bottom row. A little practice at this, and the packer will soon become proficient in placing these securely. Between every two tiers of plants thus packed, a strip strong enough to hold them should be nailed. Continue placing the plants and strips in the same way until the box is full, nailing another strip in securing the last row tightly. Nail strong strips over the top and mark the box "this side up." By this means, plants can be shipped long distances in a perfectly fresh condition and secure from damage, because the foliage can get fresh air and will not get bruised or pressed out of shape. If the packing is carefully done they cannot get out of place in the box. But when packing plants this way, never have a bud or bloom on the plants or they may get moved out of the box long before they reach their destination, and oftentimes the plant as well as the bloom. This means losing the whole package and lots of trouble all around. If necessary to ship plants in bloom, then the whole must be protected.

Shipping plants by freight, particularly for long distances, is not advisable excepting for large plants that have been previously somewhat hardened off to enable them to stand for one to two weeks without water, and even then they often suffer more damage than the cost per express would have been.

Before commencing packing at any season of the year, it is all important to see that the soil in the pots is in the right condition, namely, nice and moist without being saturated with water; if they are not so, or rather if they are on the dry side give them a good watering at least three or four hours before packing,



FIRST PRIZE GROUP OF ORCHIDS IN BLOOM, AT THE LAST EXHIBITION OF THE PENNA. HORT. SOCIETY, PHILA., SHOWN BY EDWIN LONSDALE.

or, better still, water well the evening before and then pack them early the next morning, because if too dry the earth will shake off and leave the roots bare and broken. On the other hand, if they are packed too wet the soil becomes mud, and is about as bad as can well be for the health of the plants—and the reputation of the shipper. JOHN N. MAY.

A Trip to Nyack.

Nyack-on-Hudson is essentially the home of the Beauty and La France; though there are plenty of other flowers grown there its distinction rests on the two roses named.

The locality is now becoming noticeable for the number of growers, nearly all of them supplying the cut flower trade. Some few years ago when we first began to hear of the Nyack growers it was suggested that the soil peculiar to the district was the chief factor in the extraordinary success attained with some particular varieties, but we have no actual warrant for believing this. It takes the right men to grow the plants; without them the soil would be a secondary consideration. Confining themselves to one or two varieties with which they gain an unqualified success they have a better chance than where the same ability is spread out over too great a space.

A. C. Tucker's place is thoroughly well known, and a recent visit there proves that its distinction rests on a very solid basis. One may say that the entire place is given up to the Beauty and La France, for though a few other roses are grown it is more for the sake of keeping stock than for extensive cutting.

During the past winter the Beauties at this place have been remarkable for strength and luxuriance; many could be cut with eight foot stem if desired, and at this late date they are strong and clean as one could wish. It seems a pity to root out such stuff, but they are never carried over, experience proving that it is more satisfactory in every way to replant each season.

The La France show the same luxuriance as the Beauty, making strong straight wood with abundant foliage. They are grown under the same condition as the Beauty. The soil used some time ago was quite different in appearance from that used now, being very dark and suggestive of reclaimed swamp. The present soil is light in color, extremely fine and smooth, and suggests detritus from the adjacent mountains. It is prepared about the middle of April and then left until planting in June. This spring the soil heap is turned into a salad bed, the top being sown with lettuce and radishes. One of the houses here showed a curious illustration of the virtues of new soil as opposed to old. Happening to run short of new soil a few feet of the beds in one house was filled with old. Four different roses were in the four benches, the same difference in soil extending clear across the house. The Beauties and La France showed no difference whatever, but with Perles and Mermets the difference between the plants was so marked that one could tell to an inch where the new soil ended and the old began, the Perles seeming to suffer especially from the worn out soil. It was a very plain object lesson as to the influence of soil.

An excellent idea at Mr. Tucker's was the vault for storing flowers. It was built extending outside from the shed, about eight feet deep, brick lined and ventilated by two pipes at the top. No light is admitted except when the door is open. On a hot day it was cool as a chill room, while in very cold weather the upper door leading into the shed is opened to prevent injurious cold.

A few Hoste were to be seen here, but Mr. Hogan, Mr. Tucker's grower, says his experience gives him the opinion that it is especially a spring rose, doing finely at the present time, after being idle all winter.

One of the newer places in Nyack is the Blauvelt establishment, now in its third or fourth season. Mr. Blauvelt gained experience in handling flowers with W. S. Allen, going into growing since. His houses are of improved construction, heated by steam according to the same system used at J. H. Taylor's. Like Mr. Taylor, Mr. Blauvelt believes fully in the desirability of steam for this purpose.

Beauty and La France are the chief roses grown, proving here, as at Mr. Tucker's, the most satisfactory and remunerative. Some of the Beauties were carried over from last year, but Mr. Blauvelt does not find this so satisfactory as the yearly planting. One house has been filled with Gontier the past winter, but in spite of the excellence of this rose in its class it does not pay so well as many others in the New York market.

Perle does well here, but though ready to test other sorts Mr. Blauvelt is giving more attention to La France and Beauty than any other sorts.

The largest place in Nyack belongs to Mr. DePew; there are 16 houses. This is not, however, exclusively devoted to roses, carnations are also grown, and there is a large business in bedding stuff. Mr. DePew states that his bedding trade is larger this year than ever before, running largely in excess of the usual supply.

This encouraging statement is repeated by most dealers in bedding stuff. Ferns

and smilax are also grown here; in carnations there was a very attractive house of Hinze's White. In roses the chief quantity was in the Nyack specialties; they expect to plant some 8,000 Beauties this season. The same excellence is maintained here as at the other places in the district, both Beauties and La France showing great vigor.

Another attraction at this place was a mushroom house, formed in the space between two greenhouses. It was built like a long shed with three broad shelves down each side forming the beds and has proved a very satisfactory investment. This place was formerly all in grapes, which were grown very extensively on the sloping hillsides along the Hudson; from grapes Mr. DePew went into bedding plants, and finally into rose growing.

Mr. Foley became well known as a successful rose grower while at Mr. Tucker's, and it is needless to say that his skill has not deserted him since he went into business on his own account. He began with five houses of first class construction, all devoted to roses; this year he is putting up three more. With small exceptions he devotes his skill to the Beauty and La France, and the result could not be beaten any where. This is especially true of the Beauty; the writer has seen few plants to approach Mr. Foley's, and never seen them excelled. There is no secret in their culture—except the grower's skill. They are planted about June 15 and are usually flowering a month or six weeks later. The houses give them plenty of head room, and the plants make the most of their opportunity; they throw up tremendous shoots, all from the bottom, making plenty of stem, and the flowers are worthy of the plants.

Mr. Foley grows a few Bennetts; his new houses are entirely for Beauty and La France.

Very few Albanys are to be seen at Nyack, in spite of the plentitude of La France, and very few Brides or Mermets. Not that there is any dissatisfaction with these flowers, but the growers stick to a sure thing. None of the hybrid remontants are grown at all. We may notice, year by year, a greater disposition on the part of the trade to run to specialties, and the Nyack roses are an apt illustration of this fact.

EMILY LOUISE TAPLIN.

Proper Temperature for La France.

Will you please propound the question to the fraternity, through the FLORIST, what is the proper temperature at night in winter for the La Fance? J. K. A.

THE FEELING in favor of a national rose society grows apace and the formation of such a society, on broad lines, at Washington, is already assured.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date or introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

IN LAST ISSUE, through an incorrectly made change in the advertisement of the John Henderson Co., they were made to quote their 2½-inch tea roses at $10 a hundred, when the price should have referred to American Beauty alone, and the price on the tea roses should have been $5 a hundred. The prices are correctly given in the adv. in this issue, which appears on page 963.

A Few Notes On Insectivorous Plants, With Special Regard to Nepenthes And Their Culture.

[*Read before the New Jersey Social Florists' Club by John E. Lager.*]

Setting out with the idea of insectivorous plants we ask, what is an insectivorous plant? Simply a plant that devours insects, and then according to the laws of nature they in their turn become and constitute a certain amount of nourishment to the plant; we see, for instance in the Drosera rotundifolia, the little insects often struggle for life if they happen to alight on one of the leaves where a sticky fluid is secreted, which with the droseras is the chief attraction for the insects, and there they remain, and when decomposed the substances are absorbed by the leaves. It cannot be by the roots as the insects never come in contact with them. Droseras supplied with animal food become in every way more substantial than individuals from which it is withheld. The "Venus Fly Trap," Dionæa muscipula, resembles the droseras in having a rosette of radical leaves which are about an inch and a half across, consisting of two plates lightly hinged together and bearing individually a resemblance to the human hand, being constituted as it were of projecting fingers; on the surface however, there are little green-haired bodies, and when the trap is set the two palms are spread out horizontally. The instant an insect touches the green hairs upon either side, these fold together upon the hinge, interlocking their fingers as when we clasp our hands, and the victim is imprisoned. Ordinary butterflies are thus captured, when the plant is cultivated as is now very often done in greenhouses.

The sarracenias are herbaceous perennials, natives of the swamps of this country. The leaves, which grow in tufts, have their margins brought together and united in such a way as to convert them into vessels several inches in length, at least an inch in diameter at the top and capable of holding water. The rim is worked like the over-casting of a buttonhole, and, accessory to the general design, there are numbers of short stiff bristles pointing downwards. Fluid, partly secreted by the plant itself, is contained in these curious cups for about half the distance upwards; it is attractive to insects which descending the inner wall cannot possibly get out again, and are drowned by thousands. The flowers of sarracenias are large, red or yellow.

In the extraordinary genus nepenthes, natives of the islands washed by the Indian Ocean, and now represented in our greenhouses, the contrivance though somewhat similar to that of the sarracenias, has features of its own. The plant is in every instance a weak straggling climber, requiring the support of bushes, and then reaching many feet, perhaps even many yards; the leaves are six to eight inches long and in outline elliptical; the midrib is forward and becomes a sort of vegetable carried wire which turns spirally two or three times, and then leads on to a curious pendulous pitcher most elegantly balanced, so that the mouth is always uppermost and the fluid in the interior safely preserved from running out. Here there is a genuine lid, distinctly articulated to the margin of the pitcher, and, while the latter is young, adherent to the rim, though when once lifted into the erect position, it never afterwards shuts down. The rim is worked like that of the sarracenias; there is a similar provision of bristles to prevent the escape of the insects. Long before the lid loosens itself from the rim of the pitcher, the latter may be observed half full of fluid secreted from the tissues and plainly proving that the bygone idea that the nepenthes was a contrivance for collecting rain was purely fanciful. The flowers of nepenthes are greenish and unattractive. "Which part of these plants constitute the true leaf" is a question that often has been asked. I once heard a botanist lecture on the subject, who contended that the very lid or orifice is most likely the veritable leaf. What we generally understand to be the leaf is believed by many to be a kind of phyllodia, as in a great many acacias, where in several instances the leaves are emitted from the phyllodia, and as the plant develops the leaves fall off and the phyllodia itself performs the functions necessary for the plant independent of the leaves. We see the same in the nepenthes to a certain extent, for if we cut the pitcher the rest of the leaf does not seem to suffer in the least, but continues its functions and lives for a considerable time after.

From a practical standpoint, there are few plants more ornamental and of a more striking appearance than the nepenthes when properly treated and grown to perfection, although there are few places where they are seen to their best advantage, owing to the fact that in many cases they are grown and intermixed with other plants, and consequently their treatment and the temperature in the house has often to be moderated so as to suit other plants at the same time. Nepenthes require an abundant supply of water at their roots as well as on their leaves during the growing season, when the temperature may run up to 80° to 90°, provided they are shaded and the atmosphere in the house charged with moisture. They require but very little air, and ventilation should only be resorted to when the temperature runs up extremely high, as they are very sensitive to excess of air or draught or from want of water. The pitcher is the most sensitive part, especially the upper edge or rim which soon decays if these requirements are in the least neglected.

The best time for propagating them is in the month of December or January, as by that time the shoots are more matured than would be the case earlier, and if they are propagated late in the spring when the (old) plants have started to grow the wood will be too soft, and, another disadvantage is that they will then be considerably retarded and liable not to produce their pitchers before the late autumn, and then but imperfectly developed specimens.

Success greatly depends on the wood being as ripe as possible. Another advantage is that the cuttings taken at the time above mentioned, may be struck and potted up at an early date, and thus be ready for sale in the spring, if in a commercial place, or if in a private collection, be fit for decorating the house during the summer months.

Generally the cuttings taken low down on the shoot strike best, the top ones being the most difficult to root on account of their softness. The cuttings may be cut to one eye, taking care not to cut too near the joint, the single eye then being liable to decay. There are several methods of striking them more or less advantageously. By putting a layer of fresh sphagnum in the propagating case, and then small inverted pots on the top of the moss, the hole being made large enough to get the cutting through, just to hold it in position, shoots or cuttings with three or four eyes may be struck easily. I believe this is one of the most rapid methods

there is to strike them, but with the utmost care in potting, the roots generally get more or less bruised and thus their growth is checked. I believe thumb pots are to be preferred, using sphagnum and a little soft fibry peat, and plunging them in the propagating case or under bell glasses where they can be kept close in a brisk bottom heat.

When the roots appear they may be shifted into larger pots or baskets, and if they are struck in pots, they will not suffer from it but grow on rapidly and unchecked, thus forming nice plants in a short time. The compost for potting them should consist of soft fibry peat mixed with good living sphagnum, and a few pieces of charcoal in each pot or basket, in order to keep the compost sweet. An efficient drainage is essential at all times. Although they enjoy a liberal supply of water, it must not under any circumstances be stagnant, the leaves then assuming a sickly yellowish tint. The only exception I know of as regards the treatment, is N. distillatoria, which may be grown successfully in less heat than any of the others. It is just one hundred years since N. distillatoria and N. ambullacea were introduced.

I do not think it necessary to enumerate a host of species and hybrids. They are all more or less interesting, from the little slender growing N. loereis up to the grand N. Rajah and N. Northiana.

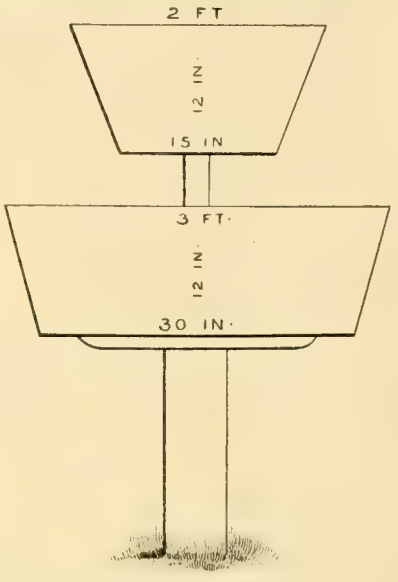
Vases and Vase Plants.

One of the great summer attractions of Lincoln Park, Chicago, is the large number of vases which by June are a pyramid of bloom and foliage and retain their beauty all summer long. The mall is lined with a row of these on each side, and the view down the broad walk with these vases standing in relief against the background of trees and shrubs, charms all visitors. These vases are now being filled for the summer, and the corridor of the park greenhouses is nearly filled with them, and thinking that the large number of our readers who make the filling of vases a part of their business would be interested in knowing the methods pursued here and that result in such magnificent pyramids of bloom and verdure, we induced Headgardener Stromback to talk about them.

Of the vases used, nearly all are of wood and made on the place. He takes no stock in iron vases, as they heat up so in the sun and burn the plants in hot weather. Besides iron vases are designed by men who have no knowledge of the requirements of the plants that are to fill them, and they generally are so shallow at the edges that it is impossible to have soil enough there to give the plants a fair chance for existence alone, to say nothing of doing well. The simple wooden boxes are far more satisfactory—and in these the plants grow so rapidly that they are soon hidden from sight anyway.

He is very particular about the preparation of the soil for vases and boxes. It must be of medium weight. If too heavy it turns into mud when heavily watered and then bakes into brick; if too light it does not retain moisture long enough. The soil he has is rather heavy so he lightens it up with a lighter soil obtained from another locality. To this mixture he adds one third well rotted cow manure —at least one year old. And when filling the vases he adds a generous lot of horn shavings (about a peck to a vase three feet in diameter and twelve inches deep). These horn shavings he considers much preferable to bone meal. They soften up and become available to the plants quicker than the bone, and the effect lasts all through the summer which is as long as needed. These shavings are torn up and mixed well with the soil before putting in the plants.

Nearly all the vases are of the style shown in the accompanying figure. The object of the upper box is to give the pyramidal form to the vase, and in late summer when the vines trail to the



ground the vase presents the appearance of a tall pyramid of foliage and flowers without any part of the vase showing.

For vase work he needs a quantity of large geraniums so each fall he lifts a lot of those that have been bedded during the summer, cuts them back and keeps them over winter for this purpose. The smaller geraniums used are of last fall's propagation.

Of course the filling of the different vases varies considerably, but the general arrangement is as follows: In the upper box, which is 2 feet in diameter at the top, 15 inches at the bottom and 12 inches deep, he uses some of the large geraniums, around these a mixture of silver leaved geraniums, Cinerarias maritima and candidissima, interspersed with smaller geraniums, then a few Calceolaria annua, double sweet alyssum, Verbena hybrida, Petunia hybrida, ivy leaved geraniums (these for immediate effect only as they do not hold out well all summer) and around the edge double nasturtiums (these also for immediate effect only), lobelias, and sometimes a few Marguerites.

In the bottom box, which is 3 feet across the top, 30 inches at bottom and 12 inches deep, the first row around the center is of tall geraniums, but not so large that they will over grow the center. Then follows much the same as in the upper box with the exception of the running plants. For plants to hang over the edge of the lower box he uses Maurandia Barclayana very freely. It makes a thick mass of foliage and flowers freely all summer long. Another plant that is used very freely in this position is the single flowered nasturtium (tropæolum). These grow rampantly and flower very copiously. German ivy (senecio) is also much used to add to the mass of foliage, as are the vincas, both green and variegated. And sometimes Lophospermum scandens is added—one or two plants in a vase. These are very effective, the gloxinia-like flowers always attracting much attention.

The vases when first planted require an even moisture, but when the roots of the plants have taken a good hold of the soil much more water is needed. And when watering the soil is soaked through so it runs through the bottom of the box. In July, August and September very large quantities of water are needed to keep the vases in condition. Then the vases are watered thoroughly every other day, and sometimes every day when drying southwest winds are blowing.

In the filling of vases it is certain that quite a number of florists are a little careless about providing for the future well being of the plants after the sale has been made, and this is assuredly a very unwise policy. Trade is built up by giving thorough satisfaction to customers, and one vase, for instance, that has been a joy to its possessor all summer long is not only an excellent advertisement for you but is a benefit to the whole trade, while an unsatisfactory one has injured you and the trade to the same extent. Be sure that your soil for filling vases is just right. And if a vase is of such shape, or occupies such an unfavorable position that you know plants can not do well in it, tell your customer so, and if the defects are not remedied refuse to fill it. Tell your customer that you do not wish to fill an order for anything that will not give satisfaction. Such treatment of customers pays every time.

Horticultural Instruction.

The summer course in practical horticulture at the Bussey Institution of Harvard University, Jamaica Plain, Mass., offers a splendid opportunity for young florists and gardeners to obtain a broad education in their chosen profession.

We print below a list of the lectures and exercises for the summer course of 1892.

July 6. Opening lecture.—Information in regard to methods of obtaining practical knowledge of gardening in its various forms.—Books of reference, periodical literature; etc.—Examination of the grounds at the Bussey Institution and Arnold Arboretum.

July 7.—Soils; origin, functions, modifications and preparation for use.—practical work in handling soils for different purposes.—Examination of natural and prepared soils and various forms of planting.

July 8.—Soil, tillage, manures, etc.—Exercises in potting and planting.

July 11.—Propagation of plants; the two general methods and examples of the classes of plants propagated in each way.—Greenhouse and out door work in propagation.

July 12.—Propagation by seeds in open air and under glass, with lists of plants so handled.—Practical work as before.—Systematic inspection of hardy trees and shrubs in the Arboretum will now begin, and continue about twice a week during the course.

July 13.—Propagation by division, layers, stolons, stools, root tips.—Lists of examples.—Exercises in these methods.

July 14.—Propagation by cuttings of the stem; growing and hardened wood, with lists.—Greenhouse work in making and planting cuttings.—Construction of the propagating bed.

July 15.—Propagation by cuttings of the stem; ripened wood in open air and under glass, with lists.—Work as above.

July 18.—Propagation by cuttings of the root and root-stock, by leaves and scales, with lists.—Work as before.

July 19.—Propagation; grafting (budding and inarching).—Practical exercises in open air and under glass.

July 20.—The same.

July 21.—Cultivation under glass.—Different forms and classes of plant houses, situation and construction.—Examination of greenhouses and a large number of plans.

July 22.—Details of plant growing under glass.—Soils, potting, training.—Insects and fungi, practical remedies.

July 25.—As above.—Watering and rest.—Hybridizing and selection.—Practical exercises.

July 26.—As above.—Forcing.—Pits and cellars, cold frames, hot-beds.—The frame yard.—Practical work in preparing and selecting plants for forcing.

July 27.—Cultivation in the open air.—Soils, planting, transplanting and cultivating.—Practical work in this direction so far as the season will permit.

July 28.—Further details of out-of-door work.—Pruning, winter and summer.—Training.

July 29.—As above.—Fruit trees and small fruits, with lists of desirable varieties.

August 1.—As above.—Vegetables, with lists of suitable varieties for different purposes.

August 2.—As above—Nurseries.—Various forms of planting.—Trees and shrubs for different uses, soils, and situations.

August 3.—As above.—Insects and fungi, with remedies in practical use.

Supplementary lectures will be given from time to time, taking the place, in part of the exercises in the open air, on the more important plants in ordinary cultivation; *e. g.* conifers, flowering shrubs, herbaceous plants, Dutch bulbs, garden annuals, house plants, grasses (lawns and meadows), roses (hardy and tender), rhododendrons and azaleas, plums and cherries (ornamental), chrysanthemums, lilies.

Any further information desired may be had on application to Prof. B. M. Watson, Jr., Jamaica Plains, Mass.

Daffodils and Streptocarpuses at the big Boston Show.

If anything were needed to convince one that Boston carries the banner in Horticulture a look into Horticultural Hall on a Saturday while a "free show" is in progress would be convincing enough. But the fact is so generally conceded that the proof is unnecessary. The reputation is one to be proud of, and has been well earned. The show given on a recent Saturday (May 8th) struck the writer as being so fine, that the public would have been given full value for their money if they had paid 50 cents admission.

A short report of it has already appeared in your columns; but some of the exhibits deserve a further remark or two. Daffodils and streptocarpuses were especially interesting.

To a lover of daffodils the display of the "Golden Host" must have been delightful. There were collections from three or four growers and all were excellent. Such fine sorts as Horsfieldi, Golden Plover, Golden Princeps, Emperor and Empress made a grand appearance and must have been a surprise to many who have not been keeping track of the many fine new sorts lately introduced. In J. L. Gardner's collection the gem was a variety called Barri conspicuus, a remarkable flower of great beauty, with pale yellow, very large perianth, the cup being chalice-shaped and conspicuously marked on the rim with orange-scarlet. If this variety can be procured at a moderate price it would be a grand thing for forcing for cut-flowers. The blossoms are so conspicuous and attractive that they would out-sell any other variety on sight. Another very pretty red-rimmed sort seen in another collection was poeticus poetarum. In Mr. Manning's collection a very notable variety was the Leedsi glorious, a white and sulphur chalice-shaped flower of large size, very elegant. Dr. Weld had probably the best grown collection in the show and if it had been larger would undoubtedly have taken the first premium. Leedsi elegans, in this collection, is probably the best pure white flower in all the chalice-shaped section. The blossom is large and very beautiful. Narcissus cernuus, a fine white drooping trumpet shaped flower, was another gem of Dr. Weld's. It is a distinct and very charming sort. Altogether the daffodil display was very fine and was an object lesson for florists who were looking for "good things" for their business as well as being delightful to those who love the daffodil for itself.

Mr. Martin (Mr. Kidder's gardener) showed eight pots of the new hybrid streptocarpus. They were splendidly grown and attracted a great deal of attention. Each plant had flowers of a different color but different shades of white and blue with various markings predominated. The flowers were borne from three to five on a stem, somewhat after the style of the freesia and each plant had about 20 to 30 flower spikes with many more just making their appearance. The streptocarpus is said to be of the easiest possible culture and by proper management may be had in flower nearly all the year round. It is certainly a most charming plant and will become popular. There was a fine display of gloxinias in the show, but the streptocarpus attracted a great deal more attention. Perhaps this may have been somewhat on account of its novelty but it is an exceedingly distinct and graceful flower although it does not as yet have the bright rich colors of the gloxinia. There is a future for it, sure.

G. C. WATSON.

Phila., May 21, 1892.

Pennsylvania Horticulture at the World's Fair.

A welcome visitor to the office of the FLORIST last Monday was Mr. J. Coates Walker, of Gap, Pa., chairman of the Horticultural Committee of that State.

He was accompanied by Mr. Robert Craig, of Philadelphia, and came to see Chief Thorpe in reference to the exhibition in the Floricultural Department from the Keystone State. He says that while Pennsylvania cannot grow fruits so well as many other states that many amateurs there have fine collections of rare exotic plants and that several of them have already promised to his committee the cream of their collections to help to represent the Keystone State in the great Exposition next year. Among these exhibits will be the finest specimens from the collections of Geo. W. Childs and A. J. Drexel. Among the plants from the latter gentleman will probably be the finest specimen of Prichardia grandis in the country.

Mr. Walker's mission to Chicago was to view the space allotted to his state and to learn from Mr. Thorpe if he would be ready to receive some of the larger plants this fall; as the building will be ready part of the exhibits will be forwarded in October. Mr. Walker reports that the leading commercial firms also evince much interest and will certainly be well represented.

Mr. Walker has been identified with the farming interests of Lancaster county all his life and is known throughout the county and on the Commercial Exchange in Philadelphia as a capable, successful business man; he is president of the Gap National Bank. He is not a floriculturist but has spent three days in visiting the leading florists in Chicago and the park greenhouses, and bids fair soon to blossom out as a full fledged expert.

He expressed himself as greatly impressed by the magnitude and scope of the Exposition and the amount of work already done in the Construction and Landscape Departments and says it will not be his fault if the Keystone State exhibit is not as complete as possible.

Mr. Walker was appointed by Gov. Pattison on the Agricultural, and Railroad and Transportation Committees as well as the Horticultural Committee but will devote most of his energies to the work of the latter committee.

Mr. Walker was much pleased by his kindly reception by the florists and park superintendents and will cultivate their further acquaintance at the convention in Washington next August.

Mr. Craig was surprised as well as pleased at the great progress made in the work of building the Exposition since his visit to the grounds last September and said many pleasant things about those having the work in charge. It is needless to say that he was given a hearty welcome by his Chicago friends and admirers, and the fact that he had been secured by Mr. Walker as an adviser gave every confidence that the wisest course for the committee to pursue would certainly be adopted. The horticultural display of the Keystone State at the great exposition will unquestionably be worthy of the great occasion.

Chicago.

As noted elsewhere the city was honored last Monday by a visit from Mr. J. Coates Walker and Mr. Robert Craig, who came to perfect arrangements for Pennsylvania's horticultural display at the World's Fair. At the same time Mr. E. G. Hill favored us with his presence, and during the day these gentlemen, accompanied by Messrs. John Thorpe, J. A. Pettigrew, Fred. Kanst, C. J. Stromback, the scribe, and J. C. Vaughan, visited the latter's greenhouses at Western Springs; primarily to see his new cannas, but a batch of new tuberous begonias in one of the houses captivated the party so completely that the cannas had to wait. What grand improvements are continually being made in the tuberous class of begonias! But a short time ago it seemed as though the limit of the possibilities had been reached but the end is not yet. Hardly one of this batch of new varieties but what well merited a place among the new named sorts and many of them were really remarkable advances, or breaks in new directions.

Notaire Dupled seems the forerunner of a new type; the inner petals are rather short, incurved and all are imbricated so that the flower in form resembles some of the old camellias; they are pink in color, with stripes of yellow in the center; Pierre Loti has petals with fimbriented edges, similar to certain Chinese primulas; Mrs. Weiks is a handsome flower, white edged



NEW HYBRID STREPTOCARPUS.

carmine pink; Golden Queen is a magnificent golden yellow; Dr. Feltz, clear scarlet with yellow stripes in center; Mrs. H. Blake, a small flower but of the richest crimson imaginable; Minerva is a very large flower of a beautiful rose color; Albert Crousse, large salmon red; Lady Lewisham has shell-like petals of crimson, the center merging into white; Guardsman is a very brilliant scarlet.

After being finally led away from the begonias the cannas were viewed and they were certainly excellent. Florence Vaughan is a magnificent new spotted yellow that makes the older ones of this type pale by comparison. The petals are broad and rounded to a degree never before seen in this type. It will certainly captivate the people when introduced, as habit, foliage , and the way the flowers are carried are all first class. J. C. Vaughan is a brilliant orange flower of excellent form, foliage dark. Alphonse Bouvier is a grand flower, deserving all the good things that have been said of it. One that is to be named Secretary Stewart is a splendid flower, vivid crimson in color. The flower spike is in form much like Ehemanni, except that the flowers are borne erect. A seedling that originated here promises to be a grand acquisition. It is somewhat similar to Mme. Crozy but there is more yellow in its make up, there being several sharply defined yellow blotches, mainly on the base of the petals, in addition to the yellow border. The plant produces a grand spike of flowers. Mr. Craig considered it good enough to be named Geo. W. Childs and if on further trial it develops no weak points not now to be seen it will be honored with this title. In addition to the new sorts large blocks of the popular Mme. Crozy, Star of '91, and other good varieties were noted and admired. Mr. Vaughan's stock was in excellent condition and he and Mr. Phœnix were warmly congratulated by the visitors on the general fine appearance of everything on the place.

After a hurried trip through the other houses, a train was taken to Hinsdale for a look through the large cut flower establishment of Mr. O. P. Bassett. As usual Mr. Bassett's place was found to be in first class shape. He is very partial to Albany and his flowers of this rose are hard to beat. He finds that with him it blooms as freely as La France in winter, and in spring and summer the Albany is way in the lead both in quality and quantity. Mr. Craig remarked that he also had found the Albany an unusually valuable rose for summer bloom and that he had just planted a house of this rose for this purpose. Mr. Craig considers the new "White La France" — Augustine Guinoisseau, equally valuable for summer blooming, making an excellent companion to Albany. One of Mr. Bassett's great specialties is the American Beauty. He is still cutting excellent flowers of this rose, and the young stock coming on for next season's work is in grand condition. And a rose that he considers the most profitable of all is the much maligned Souvenir de Wootton. The buds are not large but he cuts great quantities of them and they find a ready sale at fair prices. He grows it in large quantity and will still further extend the bench room devoted to it. Waban is a failure with him. The plants seen were the only mildewed stock on the place, and Mr. Andrew Benson, the foreman here, says he has tried it in all conditions that he thought might be favorabe, and exhausted all his skill upon it, but with uniform failure as the result.

After accepting such share of Mr. Bassett's generous hospitality as was possible in the limited time at disposal, the train to Chicago was taken and on arrival there the party was surprised by being led to the dining room of the Union Depot by Mr. Vaughan, who had thoughtfully and generously arranged in advance for dinner. The menu was excellent and over an hour was spent discussing it and the horticultural subjects that always come up on such occasions. The table was decorated with a vase of flowers of the new cannas, prominent among which was the unnamed one, that Mr. Craig toasted and formally christened the George W. Childs.

The majority of the party spent the afternoon in visiting Lincoln Park under the guidance of Superintendent Pettigrew and Head-Gardener Stromback and the visitors were much impressed with the beauties there to be seen in addition to admiring the stupendous work involved in building the new beach, and which will steal hundred of acres away from the domain of Lake Michigan.

Mr. Hill returned home Monday evening but Mr. Walker and Mr. Craig remained over till Tuesday afternoon.

Cut flower trade is so nearly dead that there is little indication of any life at all. It has certainly been a very quiet spring. Some are looking forward to Decoration Day for relief, but that event seems to be of little benefit to the down town florist.

Leap year has had its effect on one of our bachelor florists. On Tuesday, May 17, Mr. Emil Buettner, of E. Weinhoeber & Co., was married. The bride was Miss Bertha Hildebrand, of Milwaukee.

The season is fully two weeks later than usual here, and few shrubs are yet in bloom. At Lincoln Park lilacs are only beginning to show color and the snowballs will in all probability not be in bloom until after Decoration Day. But bedding is going on at this park in spite of the chilly weather. Some 10,000 geraniums are already planted out, as are also beds of stocks, verbenas, double petunias, alyssums, and of course the pansies. But the geraniums and other plants noted were all specially hardened, having been aired night and day for three weeks prior to planting. Otherwise they could not have been safely bedded out so early in such a backward season.

The tulips at this park are now mostly fading, though some still make a bright show. Hyacinths do not do nearly as well out of doors here as the tulips, the former lacking sadly in brightness of color. But the tulips are all that can be desired in this respect.

The new conservatory is very nearly completed. The outside work is all done and the finishing touches are being put on the interior. The work of terracing the ground in front is also well under way. The building is a noble one and the commanding position that it occupies will make it a very striking feature of the park.

At Lincoln Park the variegated geranium Mme. Salleroi and the Golden Feather (Pyrethrum aureum) are still largely used for edging, but they can not be satisfactorily used here in the center of

a bed, as in that position they damp badly. Is this the case in other sections of the country? A plant that did grandly at the park last year was Solanum jasminoides planted on the rocky bank of one of the lily ponds. It covered the bank with a mat of foliage and produced great numbers of its gratefully fragrant blossoms all summer long. It was a surprise to many to see this plant do so exceedingly well in this position.

Philadelphia.

The parade of the Philadelphia Coaching Club May 16 was an event of importance to the fashionable folk of this city. There were nine coaches in line. All the ladies and gentlemen wore flowers, each coach having a flower of its own. English primroses, corn flowers and different kinds of roses were used. On the return in the evening dinner was served at the Bellevue, where the decorations were quite elaborate. There were nine tables, one for each coach. Large quantities of dogwood blossoms were used in decorating about the room. A bough of the same blossoms was placed on a stand in the middle of each table and the stand concealed by apple blossoms. Roses, too, were used in making the occasion a beautiful and fragrant one. In each corner of the apartment was a life sized model of a horse, its trappings like those for a fairy steed, of flowers.

At the monthly meeting of the Pennsylvania Horticultural Society May 17, the following were elected to membership: E. Edwards, J. J. Styer, S. D. Hall, W. R. Shelmire, Chas. E. Meehan, Jas. Lewis, J. J. Smith, H. L. Homes, E. D. Darlington, A. Eldridge Brown and W. R. Latch. The society is growing in membership and a great deal of interest is being taken in its monthly meetings, the attendance increasing each month.

Mr. A. Blanc's essay on Cacti was very interesting. He illustrated his remarks with numerous specimen plants. Mr. Blanc has probably the largest collection of cacti in this country, and has done much to popularize the plant, so that there is quite a craze for them in some localities. He stated in the introduction to his lecture that he had for a long time made the cactus a hobby and had obtained specimens from Mexico, Texas, South America, Arizona and other localities. He invited his hearers to visit his greenhouses at 48th and Walnut, where they would find some very fine specimens.

About 1,500 varieties of the plant have been found, but these have been reduced to 800 and some are so rare that only single specimens remain. The flowers of some are most beautiful; the plants need very little attention and many are quite hardy. The most popular of the family was the night blooming cereus. Mr. Blanc said the supply of wild growing plants would soon become exhausted. He illustrated the method of grafting, described the mode of propagating and told some humorous incidents connected with the cactus. In fact the lecture abounded in witticisms and was so heartily appreciated that Mr. Blanc was given a unanimous vote of thanks.

There is not much doing nowadays and prices have fallen considerably. Fancy roses bring 4 to 6, Perles, Gontiers and the like 2 to 3, Laings and Luizets 20 to 25, Jacqs 10 for the best, carnations 1 to 1.50, valley, coming in very fine from outside, all prices from 1 to 3.

Bedding plants are going fairly well but the backward season interferes a great deal with their sale. Prices are about the same as last season. Most 4-inch stuff sells for from 1 to 1.20 a dozen, 6-inch from 2 to 2.40 a dozen, 2½ and 3-inch from 3 to 5 per 100, good roses in 6 and 8-inch pots from 3 to 6 a dozen.

Robert Craig is first in with chrysanthemums, having a few plants of Mrs. Whilldin, a very early yellow, in good shape. It is accidental, and he says not desirable at this season. Mr. Craig left us on Friday last for Chicago in the interests of Pennsylvania's exhibit of horticulture at the World's Fair.

Mr. Whilldin, of pot fame, has presented the Florists' Club with a dozen or more new cuspidores. They have the club's monogram in gilt letters on the side and are very artistically decorated. They look like fancy flower pots and if some of the members would donate a few palms we have no doubt the club house committee would allow some of them to be used in decorating the room.

Longinette gets a good grip on the ball these days and keeps well up to the front. Baker is setting a rapid pace for the sweepstake prize, making an average of 180 in the last six games. Heron and Westcott are also "in it." Thos. Cartledge, our staid treasurer, was on hand last Saturday evening but could not be persuaded to take a hand in the game. When Thomas does commence there will no doubt be some great scoring, as everything he does is done well.

The recent sales of plants at auction in New York from Philadelphia growers have turned out very well, the prices realized being very good. In some cases they were bid up to more than twice the price obtained here at private sale.

Mr. Longinette's paper on "How to conduct a retail flower store" will no doubt throw some light on the subject. He says he has it in for some of the growers and will endeavor to make their paths a little plainer for them. He will have it ready for the next meeting. K.

New York.

The quantities of roses coming to the New York wholesalers at present is enormous and entirely out of proportion to the demand. Those handling large lots of cut flowers are put to their wits' end to find a means of disposal of them. Worst of all is the perverseness of the retailers, the biggest and toniest of whom refuse to pay any more for their selected stock than the "Greeks" pay for average run. So there is nothing left to "average up" on and the net proceeds received from their cut must bring a cold shiver to many of the growers.

The quality of the roses in market runs very inferior. Mermets and other pink roses are decidedly off color. The lighter shades of pink being most in demand, the Waban finds a very good place now, for its color has lightened just about enough to fill the bill, while the Mermet has scarcely a vestige of pink left.

The lily of the valley in market now is a splendid quality. It is out door grown from German pips.

The retailers must be making money, for they hold up their retail prices nearly as high as they did when they paid good wholesale prices for their stock.

The second orchid sale of the season was held at R. B. Young's on May 19th, including both newly imported and established plants from Sander & Co. Among the gentlemen present were F. T. McFadden of Cincinnati, Jno. Gerard of Elizabeth, W. A. Stiles of *Garden and Forest*, and Dr. Little. A number of the plants went some distance from New York, Mr. Chadwick of Chicago and Mr. Storer of Boston being among the buyers. A new hybrid Dendrobium, D. Cassiope, realized the highest price for any single plant; it is a cross between D. nobile albiflorum and japonicum. Another sale is anticipated in two or three weeks time, which, it is promised, will be of special interest, containing a number of noteworthy plants.

A new store uptown is Carlon's Bryant Park flower store. Mr. Carlon makes a fine display of bedding stuff, in addition to cut flowers.

Another attractive new place is that of W. P. Sears, a few doors above Carlon's, facing Bryant Park. With this place decorating is a special feature.

Retailers report a tremendous run on pansies this season; they were never more popular, and many declare they could handle more than double their usual quantity. Without doubt a good deal of this enthusiasm is the result of the increasing excellence of the plants, the Trimardeau strains especially being so wonderfully improved. Another plant which has sold very rapidly is heliotrope.

Among the plant stalls in the vicinity of Washington Market red geraniums, double yellow maguerites and monthly roses seem specially salable, most of the stalls selling seeds and shrubs as well as bedding plants. Their patrons are not by any means confined to people of small means; we see a good many well-to-do suburbanites buying stuff at these stalls, on their way to the ferry.

Mr. A. C. Tucker is building a dock on his river-front at Nyack, which will greatly facilitate the handling of coal or freight for his place.

Mr. Tunis De Pew has been ill for some little time, but is now recovering.

Mr. John Taylor has commenced on the erection of four more houses at Bayside.

Mrs. Emmons, daughter of T. J. Slaughter, died of pneumonia at Orange, N. J., on May 18. The funeral took place from her father's residence at Madison on May 21.

Mr. Thos. W. Weathered has sailed for Europe to enjoy his customary summer outing.

Boston.

Flower trade has been miserable during the past week, white flowers for funeral use being the only things which show any life. The shutting off of the fakirs from the streets has not been attended with any beneficial results to the large stores, while many of the growers have suffered badly in consequence of the loss of street trade. Public opinion as revealed in numerous newspaper articles is strongly against the prohibition of the peddlers and the two or three flower stores which are responsible for the action of the city authorities come in for considerable denunciation. The movement was evidently ill-advised and ill-directed, for when the peddlers do get back as they surely will, they will be conscious of their strength and are apt to be more aggressive than ever.

Mr. C. M. Atkinson exhibited at Horticultural Hall on May 21 a pretty group of orchids among which was a fine specimen of Cattleya Mossiæ Reineckianum for which he received a first class certificate of merit. L. H. Farlow showed cut blooms of Cattleya Mendelli one of these being a remarkably fine variety with exceedingly rich coloring on the lip. James Comley's calceolarias were unusually fine in size and color, and the wild flowers

from Mr. Hitchings and Mrs. Richards were especially interesting because carefully and correctly named.

"Outlines of Lessons in Botany" is the title of a useful little work in two volumes by Jane H Newell just published by Ginn & Co., of Boston. It is especially adapted for children's use and the outlines follow the plan of Dr. Asa Gray's "First Lessons" and "How Plants Grow," and are intended to be used in connection with either of those books.

The tulips at the Public Garden have vanished and the beds are now a brilliant array of pansies. A superb collection of evergreens and tropical plants are in readiness for the summer display. The lily beds will be a special feature this year.

The bowling fever is at full heat now and will continue till the August tournament at Washington. The club meets at Allen Gymnasium every Saturday evening. W. H. Elliott has been chosen captain.

Owing to the backwardness of the season, the Rhododendron Show of the Mass. Horticultural Society has been postponed to Friday and Saturday, June 10 and 11.

In the city: Mr. Burt Eddy, of Chicago, representing J. C. Vaughan.

Buffalo.

Cool weather and much rain has greatly retarded the planting of flower gardens. We don't usually begin to plant in earnest till the end of May or the first week in June, but it will be after that this year unless we have a great change.

Several of our florists have gone extensively into the tuberous rooted begonia. They are new here and sell well for a house plant, and smaller plants will be used for flower gardening to some extent. The writer last spring recommended them to a customer to fill two iron vases in partial shade, with of course little root room. They flowered the entire summer and were very satisfactory, besides being an entire change from the everlasting geranium, coleus, etc.

Business has been rather quiet this week among the flower men. Adams & Nolan issued a very neat invitation to their patrons and the general public to their opening on Thursday last. Their store was handsomely decorated and the people that flocked to see them was an evidence of their popularity. These flower store openings may be a benefit sometimes but it smacks too much of the "opening of our grand sample room" to suit me. [Dry goods, millinery, clothing and even art stores have "openings." Why should it smack more of one than another? Ed.]

The event of the week here in the trade was the gathering of the craft both city and country folk at the wholesale house of Daniel B. Long last Monday. It was quite informal but most enjoyable. Dan presided at a huge "tubful" of punch and a colored gentleman dispensed delicious sandwiches. Many a sincere wish for Mr. Long's success was uttered there, but there is no doubt about that, for the retailers have already found the local commission man of the greatest convenience. After the punch Dan led about 40 of us to the bowling alleys, where the city experts tried to have much fun with the honest village florist, but in some cases it was a failure. The rustics rolled in great form and their hardier constitutions enabled them to withstand the effects of the dissipation better. But Oh my, the scores! Be thankful they will never be published.

Your correspondent took a flying visit to Toronto last week in company with Florist Belsey. After spending a few hours with that prince of good fellows and good all round gardeners, George Vair, we drove to Cousin John Dunlop's place. I don't want to encroach on the duties of your able Toronto correspondent but must be allowed to say that for neatness, system and above all for quality of his roses (of all kinds) John's establishment can not be beaten on this continent. Walter Muston too, although small in quantity beside Mr. Dunlop's were of equally fine quality.

We have good reason to believe that the bedding plants sold here are considerable better than in many other cities. We get $1 a dozen for coleus in 3-inch pots and $1.50 for geraniums in 4-inch. But they are fine plants and well worth the money. One of our largest plant growers, who also grows lots of Easter stuff, had to work a gang of men evenings. One of the evening's work for three potters and four helpers, from 7:30 to 10 p. m. (two and a half hours), was shifting 1,600 coleus from 3 to 4-inch pots. These are used for vases and veranda boxes. When potted they occupied a space 100x4. An agent of a large eastern firm wabbled in the next morning and was shown the previous night's work. He said "pretty fair." The proprietor tells me he kept his temper, but would awfully like to bet said agent that 24 like him can't do the same amount of work. We have hustlers here besides the Niagara.

Scott has been keeping up a good show of orchids in his window, principally Dendrobium thyrsiflorum and densiflorum, Cattleya Mendelii and cypripediums. Calling on him recently he remarked that the orchids, although not "born to blush unseen," yet they wasted "their sweetness on the dollar air." We took him to infer that there were not many dollars in them. He also remarked that the quotation should not be attributed to W. K. H., of Quaker City, or Walt Whitman, but to the lazy but immortal Grey, of Churchyard farm. G. S.

Memphis, Tenn.

RAMBLING REMARKS BY A RAMBLER.

May 12 was a great day for Memphis and as usual in this age of advancement in art and culture, the florist occupies a prominent place in the front ranks to mingle beauty with business and crown with flowers man's greatest achievements. The occasion is the grand celebration of the completion of a bridge of unusual proportions that spans the great Mississipi at this point, connecting the States of Tennesee and Arkansas with iron bands that facilitate commercial and social relations by means of railroad communication. The city is crowded with visitors and the florist's skill has been taxed in shaping with flowers numerous designs suggested by the occasion. In a prominent show window of Main street is a very elaborate design in flowers, representing the bridge, also a large design of a memorial nature executed in flowers and dedicated to the memory of Jas. Phelan, member of Congress from this district, through whose efforts the charter for the bridge had been secured, but who died before seeing the great aim of his life completed.

These beautiful tributes were the work of Olaf Johnson, who from a small beginning has rapidly come to the front among the leading florists of the city. Mr. Johnson met with a severe loss last March by the crushing in of one of his palm houses with snow, utterly ruining house and stock. Snow fell to the depth of 20 inches and as outdoor roses were in bloom at the time and many plants set out, much damage was done to the country at large by this unprecedented storm. Mr. Johnson will rebuild several of his houses and generally increase his cut flower capacity.

Another prominent florist is J. T. Williamson, who has a spread of glass that would do credit to any city or locality. Though born and bred a gentleman of means and leisure, he inherited from his father, who had private conservatories, a love of floriculture, and when called upon to take an active part in life, chose the vocation of florist, and right skillfully he has controlled the business. He is his own foreman and director and his houses and their contents give evidence of the good judgment that planned the one and cultivated the other. Growing of cut flowers and decorative plants is his principal object, though some houses contain very fine bedding plants; roses predominate. We saw some very fine American Beauties, though a little off color on account of the heat. La France, Mermet, and Mme. Hoste seemed to be the leading favorites. Jacqs are in full bloom outdoors in his garden and could be cut by the wagon load. Mr. Williamson is a member of the Tennessee Club and was "up to his eyes in business," decorating the rooms of their elegant building in the city, which were thrown open for the reception and entertainment of distinguished guests from abroad. The banquet hall and the tables of the Chickasaw Club also gave evidence of his skill, and of the profusion of flowers he was able to furnish.

Harry Lanham, another well known florist in these parts, we found at the reception hall of the Mystic Shrine, where were entertained members of this select order of social brotherhood. Here he was so busy catering to the entertainment of a crowd of guests at dinner time, that he could spare no time for more than a moment's welcome. We afterwards had a pleasant visit with this genial gentleman, who while reducing a fragrant Havana to smoke and ashes, told "how he became a florist." Mr. Lanham for many years was a machinist and had charge of the City Water Works, but being a lover of flowers, he built a small hot house for his own amusement and in this way little by little, was drawn into the business which finally assumed such proportions, he was compelled to give up his outside engagement and devote his whole time to the management of his pets. He is this season remodeling his houses and getting in shape to further increase his business, devoting more space to the cultivation of cut flowers.

It is a universal statement among florists here that cut flowers are the only things that pay. Plant business is dying out everywhere. I was surprised to find in the city of Memphis very little bedding done. Fine houses and spacious lawns abound, but the floral ornamentation consists of a few rose bushes, old fashioned honeysuckles and hardy shrubs. An occasional clematis would climb a column or trellis and lend a still more lonesome air to the vacant surroundings by the presence of its scattering bloom. One grand beauty, however, is here in profusion, the stately Magnolia grandiflora. A sight of this magnificent tree with its dark glossy green foliage and immense creamy

white flowers fills the heart of a northern florist with envy.

We called on Mr. Moore, one of the eldest if not the oldest florist in the city, and failed to find him at home, but learned from his son that his father desired to sell or lease his place and quit business on account of failing health. We also visited the Tennessee Floral Co., but the manager was attending to business in the city and we did not have time to return. We were also, for lack of time, prevented from calling on the Memphis Floral Co. and the garden of John Pearson & Co.; the latter is located near the beautiful Elmwood Cemetery and I was informed that the gentlemen were doing a good business.

Memphis is a good business city, the people are wealthy, fashionable and tasty, consequently, cut flowers are in great demand and bring good prices. Many of the florists do not grow half enough to supply their customers but buy largely from St. Louis, Cincinnati and Chicago. The tendency among most of the trade is to devote more space to cut flowers in the future and let the market gardeners grow geraniums and bedding plants in pits and cold frames, which they now do to a large extent.

I find a great difference in the construction of greenhouses in this southern climate from the general plan adopted in the north and east. Here most of the houses are made up of long sash about four feet wide, reaching from the eaves to the purlin, where they meet the ventilating sash. A skeleton work of 2x4 rafters forms the frame work supporting these sash. In summer the sash are all removed and the house has only ribs to show. If roses are growing on the benches, they are allowed to remain till they quit blooming, are then lifted and set in the open ground, the house and sash are painted, benches repaired, new roses planted on the benches, and when cool nights commence the sash are replaced and you have a greenhouse. For this climate I think the plan a good one, and even farther north I think for some purposes, houses of this kind would be found very useful and convenient.

J. D. C.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

J. C. VAN LINDLEY, Pomona, N. C., president; W. J. PETERS, Troy, O., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A. WHITNEY Franklin Grove, Ill., treasurer. The seventeenth annual meeting at Atlanta, Ga., June 1 to 3, 1892.

The Effect of the Past Winter on Evergreens.

Probably I didn't deal full enough with this subject, page 907, May 12. Editor Stiles, of *Garden and Forest*, writes me, May 14, about the effect of the winter on evergreens in Jersey City, where he lives, and makes further inquiries on the subject as regards the evergreens here at Dosoris. He writes: "A beautiful filifera (Retinospora) which was a perfect mound some five feet high and as many across, a squarrosa some 12 or 14 years old and 10 or 12 feet high, a nice silver tipped arbor vitæ from Robert Douglas and one or two more are ruined beyond recovery. * * * A week or two ago I was riding by a florist's on Jersey City Heights and he had a large block of these retinosporas a foot or two high exposed to the west, and I think that almost every plant was killed." And so on.

None of our retinosporas have been killed because they occupy the more sheltered parts of our grounds, but all have felt the ill-effects of winter (March) more or less. Pisifera and its allies, as filifera pendula, have suffered most of all and immensely more on the northwest side than elsewhere. Squarrosa and plumosa and its varieties suffered considerably; ericoides, more by snow than cold; filicoides, leptoclada, tetragona and lycopodioides in a lesser degree, and obtusa and its varieties least of all. All of our American arbor vitæs (T. occidentalis vars.) have escaped fairly well, but it is a fact that the silver tipped sorts, Columbia for instance, have suffered more than the yellow variegated kinds, George Peabody, for example. Throughout other conifers the same is true as regards white or yellow variegation. Chinese arbor vitæs (T. orientalis) in exposed places have been hurt a good deal, but in protected places not at all. Thujopsis dolobrata in moist, sheltered, thinly shaded parts has escaped without a stain. T. borealis isn't worth growing it is so unsatisfactory, one will die unaccountably and the next one to it remain unharmed. Cephalotaxus of sorts suffered much, and strange though it may seem podocarpuses alongside of them have wintered capitally. Cunninghamia sinensis always gets more or less hurt every winter, although we have a 13-foot high board fence on the north side of it, and this winter it didn't get hurt a whit more than in previous years. The Colorado Douglas fir is unhurt, but the Oregon type—a far prettier and more feathery form—shows a good many deadened twigs but not enough to mar the specimens.

While Azalea amæna shows no sign of the winter's blast, "hybrid" rhododendrons have been severely handled. Contrary to my expectations, Phillyrea Vilmoriniana, a fine broad leaved evergreen of recent introduction, shows no ill effects whatever, and again contrary to my expectations Desmodium tiliæfolium, a handsome flowered deciduous shrub which before now behaved splendidly here, has been killed to the ground. Scotch broom that lived unhurt for years has lost four fifths of its wood, and even under a thick covering of spruce branches furze got killed to the earth. Calluna vulgaris, something quite unusual, has got cut sadly, and Dabœcia polifolia, as one might expect, has been nearly killed out. Osmanthus illicifolius, a beautiful holly-like shrub from Japan, shows no sign of bad usage, but Indigofera Dosua, a deciduous shrub from the Himalayas, got cut hard back into the old wood.

WM. FALCONER.

Glen Cove, Long Island.

Azalea Notes.

BY C. PETRICK, GHENT, BELGIUM.

An interesting and peculiar feature of the azalea trade is the way the demand and taste as to colors varies with different countries. Whereas the English are more for whites, France and Germany prefer bright rose, pink or crimson. It is difficult to decide what varieties we should grow, although there are certain varieties in general demand which we might call market sorts. Mme. Vander Cruyssen has been at all times a favorite with the French. It took many years before we could sell any of them about England. But taste and fashion are variable and that ugly Mme. Vander Cruyssen, as they used to call it, is now every where regarded as a grand variety. Deutsche Perle is another fine sort. It is pure white and very double and will freely force for Christmas. While Mme. Vander Cruyssen is considered the best for market Deutsche Perle is the most useful for cut blooms. Some of the best double whites are the following: A. Borsig, Bernard Andreas alba, Flag of Truce, Sacundala, Eborina plena, Heros, Johanna Gottschalk, Raphael, Madeleine, Mme. Hermann Seidel. Of singles I would recommend Blutheana as the earliest for forcing, also Mlle. Marie Planchon, Konigin der Weissen and Louise Pynaert.

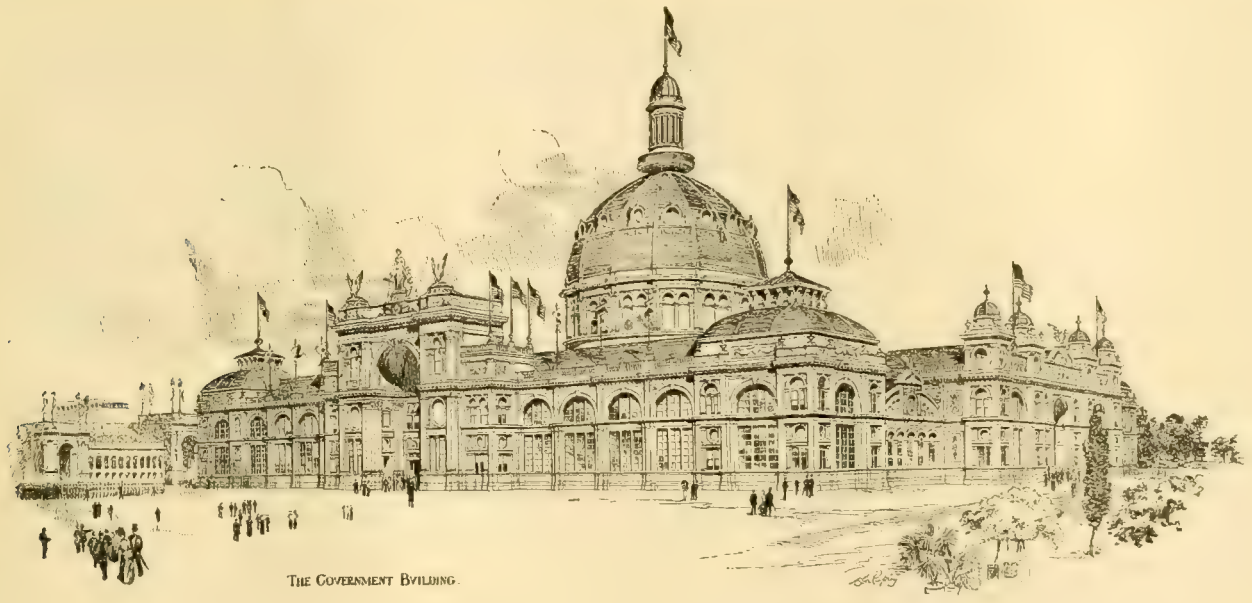
In self-colored ones great progress has been made in raising good and distinct colors. The number is very large already and yet almost every year it is increased by some new and distinct colors. Among the self-colored varieties Mme. Vander Cruyssen takes the first rank; Simon Mardner is a fine double rose; Bignoniæflora plena and Hermosa, rose and very double, both valuable for early forcing. A fine semi-double with large flowers and rosy crimson is Memoire de Louis Van Houtte. Some other good varieties of similar colors are Dr. Moore, Juliette, Bernard Andreas, Duc de Nassau, Irena, Camille Vervæne, Mme. Paul de Schryver and Hermione. A very attractive and handsome variety is Baron Nathaniel de Rothschild, of violet color with a bluish shade, also Tampa, velvety violet and very double, and Theodor Reimers, with very large double flowers. Violacea multiflora flowers in trusses of five and six, the flowers are very double, violet and of medium size. The first azalea of violet color, Heinrich Heine (it used to be called the blue azalea), was raised by C. Schultz, a famous German grower.

One of the brightest and most effective colors is Le Flambeau. It is of deep glowing crimson and single. A very similar color is Perfection de Gand, but the flowers are larger and it is of stronger growth. It is a most desirable variety. Ami du Coeur is another distinct variety, of bright coral red color with large and very double flowers. Next to this I would recommend Phœbus, vermilion red, very double; Charles Leirens, deep salmon red and very double; Apollo (Sch.), Oberst von Kutzinsky, Prince Rudolph, all scarlet and double. In General von Werder we have a very handsome single scarlet for early forcing.

There is a general rush now for Vervæneana. It is no doubt a fine variety, but is it wise to pay such fabulous prices for inferior quality plants? There are other sorts equally fine, such as Empress of India, Mlle. Louise de Kerchove, Princess Louise and Mlle. Marie Rosseel. There is Princess Victoria, a beautiful pink, and Helene Thelemann, of soft rose color, very double, of medium size; both varieties I would particularly recommend for cutting. Also among the single flowering kinds of pink color we have several extremely handsome varieties. Sigismund Rucker is a splendid azalea; also versicolor, Mme. de Greve, Professeur Walter, Comte de Chambord, Jean Vervæne and Mme. Victor Cuvelier. The latter is quite new, of a magnificent rich pink color.

Among striped sorts we have Baronne de Vrieri, Apollon, Souvenir du Fr. Vervæne, Daphne, Neige et Cerise, all single, and Marshall P. Wilder, Mme. Camille von Langinhove, Rosa Bonheur, Countess Eugenie de Kerchove, Mme. Louis Vervæne, all doubles.

As I write these lines I receive the AMERICAN FLORIST (which I always read with great interest) No. 184, and under the heading "Our Telephone" I find one remark of Mr. Dean's that interests me.



THE GOVERNMENT BUILDING AT THE WORLD'S FAIR.

Mr. Dean says: "Most of the fine new varieties over there (in Ghent) are raised by amateurs." I fancy it is a misprint, or the AMERICAN FLORIST did not properly distinguish through the "telephone," or Mr. Dean may have been misled by some one who had an interest in doing so. In fact almost every variety of Indian azaleas has been raised by florists or nurserymen. Although I have grown azaleas for more than 18 years I never heard of any raised by amateurs. Proofs are better than assertions, therefore I thought I would mention some of the principal raisers.

Mr. Fr. Kinghorn, a well known nurseryman in England, was no doubt one of the very first who fertilized Indian azaleas. Among others he raised Mars, President, Sir Charles Napier, Symmetry, all sorts now of days gone by, but in their time unsurpassed in every respect. In Mr. Ivery we have another English pioneer. His Iveryana and Criterion are still known in the trade.

Louis Van Houtte, the creator of the fame of horticulture in Ghent, raised innumerable varieties. It would be almost impossible to enumerate them all. Some of the best known are: Alice, Baronne de Vrieri, Metiore, Mme. Iris Lefebvre, Juliette, Charles Leirens, Dr. Moore, Jean Vervæne, John Gould Veitch, Mlle. Louise de Kerchove, Sigismund Rucker, Cocarde Orange, Memoire de Louis Van Houtte and many newer kinds. Dominique Vervæne, of Ghent, raised a number of fine varieties, but very few of his sorts are in cultivation at present.

Later on we have some very successful raisers of new azaleas in Germany. They are Simon Mardner and Rose of Mentz, Liebig at Dresden, C. Schultz in Hanau, and others, to whom we are indebted for the largest part of the beautiful varieties now in cultivation. There are Helene Thelemann, one of the most useful for cutting, A. Borsig, Bernard Andreas, Duc de Nassau, Duchess de Nassau, all well known sorts which testify to the skill of the raiser, Simon Mardner of Mentz. At the same place we have Mr. Rose, another German grower: Deutsche Perle, Frau Hermann Seidel, Lina Born, Garten Director Krause are sorts of such great value that it is unnecessary to add anything in his praise.

I leave it to the reader to judge of the skill of Mr. C. Schultz by the varieties he raised: Apollo, Bignoniæflora plena, Eborina plena, Imbricata, Niobe, Rhea, Schnee, Sacuntala, Scharlachrischen, Wilhelm Scheurer, Cleopatra, Dr. Hermann Weigel, Hermione, General von Werder, Heinrich Heine, etc.

Mr. Liebig, of Dresden: Alpen rose, Dante, Edelweiss, Germania, Hermann Seidel, Superba, Kalakaua, Graf Franz Thun and the old well known Blanchard.

Mme. Vander Cruyssen, Mme. de Greve and Apollon were raised by a grower in Ghent. There is another very successful raiser in Ghent, who has sent out some of the very best sorts, Joseph Vervæne, of Ledeberg. He raised the beautiful Vervæneana, also, Camille Vervæne, Amie du coeur, Louise Vervæne, Perfection de Gand, Neige et cerise, Perle de Gand, Wm. Victor Cuvelier, and many others.

Mr. Dean says further on through the telephone: "On the other side of the water (I fancy Mr. Dean means Belgium) the growers are getting careless respecting the shape of plants." I am sorry to say this remark is fully justified. But how could it be otherwise? Many of our azalea growers hardly know what they do grow. In fact I doubt whether they deserve the title of grower or nurseryman. Most of them are simply peasants, who worked for five or six months at a nursery, just to get an idea of azalea growing and then started for themselves. Many do not know the sorts they grow. They get the grafts from a neighbor and these they propagate all their lives, or at least until some other merciful neighbor gives them a few twigs of a newer kind. Many of them have no education, and are not even able to write their own names.

As to pinching the plants in time or growing them in symmetrical form, these people will not do it. "We find customers for all we grow somewhere," they say, "and shall we make the plants so much smaller for the sake of getting them symmetrical?"

The Government Building at the World's Fair.

This building covers an area of 350 by 420 feet, is constructed of iron and glass and cost $400,000. Its leading architectural feature is an imposing central dome 120 feet in diameter and 150 feet high, the floor of which will be kept free from exhibits. The south half of the building is devoted to the exhibits of the Postoffice Department, Treasury Department, War Department and Department of Agriculture. The north half is devoted to the exhibits of the Fisheries Commission, Smithsonian Institute and Interior Department. The State Department exhibit extends from the rotunda to the east end, and that of the Department of Justice from the rotunda to the west end of the building.

My Experience as an Orchid Grower.

In February, 1890, I was seized with the orchid craze. I read so much of them in both floral and daily papers and was so filled with the idea that there was something awfully mysterious and difficult in their culture, requiring at least an intimate knowledge of the occult sciences and the government weather reports, that I longed to possess a few and try my hand at growing them.

I had received several price lists and catalogues of orchids and having studied the price lists carefully I made a list (I like to be systematic in these matters) first of all of the orchids I would like to have and then of all those that I could get. In the former I placed all such as cost over four hundred dollars each and in the latter all that were priced at fifty cents and less; then making a careful comparison between my list and my pocket book I picked out three—Epidendrum vitellinum majus, Oncidium tigrinum and Ondontoglossum Rossi majus. These are terms used in botany. I looked them up in Webster's dictionary and that is what Webster told me.

In due course the basket arrived. They were curious looking plants, two with green bulbs and the other had bright glossy chocolate colored bulbs, all had grass like growths.

I struck out for the woods and cut from a tree three pieces of Polypodium vulgare fern roots about five inches square; this material looks like a piece of thick brown felt. Onto this fibre and among the ferns I wired my orchids, dipped them into

water and hung them on the hotel piazza by cords, and the next day left for a two days' trip to the woods. That night a tremendous frost fell and my orchids were so badly frost bitten that the growths all dropped off. Oncidum tigrinum never recovered from the shock; it died in a few months of a dry rot after making a tremendous struggle against adverse circumstances and my culture.

The other two recovered and made a fine growth of roots into the polypody fibre but they would not bloom right away and therefore I did not think they were doing well and having read an article in the AMERICAN FLORIST on orchid culture, I made a floricultural hash of green sphagnum moss, some pieces of pots, a mutton bone pounded into coarse pieces and some charcoal. To this I added a liberal quantity of plant food. Still they would not bloom, and after waiting another sixty days I began to feel sorely disappointed; great big doubts began to pervade my mind. Could there be something wrong about that potting material, or should I have used a beef instead of a mutton bone, or were the pots in too large pieces, or should the charcoal have been burnt of oak instead of pine? Surely the plant food had not failed. It said on the wrapper that it was good for all plants. Could the firm have made a mistake and sent me century plants instead of orchids?

I was discouraged but resolved to try again. This time I placed in boxes of clean, green sphagnum. I felt though that so much intense study was wearing out my physical and mental economy, so I turned them over to the negro porter to take care of, instructing him to water them three times a day. Three months after he came to me and said: "Boss, that there thing is in bloom." Sure enough Odontoglossum Rossi majus had two pretty white and pink blooms, and six months later, in March, Epidendrum vitellinum majus bloomed, with two quite large spikes of red flowers with a small yellow center, and remained in bloom till August 15. This latter died later. I am of the opinion that "excessive forcing" in the early stages of culture killed it. I have still Odontoglossum Rossi majus which bids fair to bloom again.

I write this letter to show that orchids are not so awfully delicate, and also to give the professional florist an idea of the kind of treatment plants sometimes receive when an amateur struggles with them—and would like to suggest that these two orchids are the kinds to sell to amateurs to start with.

For myself I feel awful vain over my success and if you fellows have anything that is real hard to grow I wish you would send it along to

CALDWELL, the Woodsman.

SITUATIONS, WANTS, FOR SALE

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED By a German florist, 29 years of age, well posted in culture of palms, ferns and other greenhouse plants. Address E T., care American Florist

SITUATION WANTED By a young, sober, German gardener and florist in a large place. Address CONRAD SCHULZE, 118 Greenwich street, New York City.

SITUATION WANTED In or near Chicago, by gardener and florist; thorough, practical man; age 26; speaks English and German Best of references. FLORIST 2423 Bank St., Louisville, Ky

SITUATION WANTED By Scotch florist of 20 years' experience in rose and carnation growing and general floral work. Good references; strictly sober; single. Address OLIO MILTON, 187 Water St., Newburyport, Mass

SITUATION WANTED—By a sober and willing man; age 24; June 5 or 15, on florist, nursery or private place; speaks English and German. Expect good wages. Prefer California or the west. Address G. RENTSCHLER, 4057 Louisiana Ave., St. Louis, Mo.

SITUATION WANTED—By a first-class florist; German, single, 25 years of age; excellent knowledge in growing roses, carnations, cut flowers, propagating palms, general stock and well up in design work. Best of references. Address Box 1532 Postoffice, Salt Lake City, Utah.

WANTED—At once a steady, sober and reliable man; must be a good grower of cut flowers, roses, carnations, violets and general greenhouse stuff. Address, stating wages wanted. P. O. Box 81, Indianapolis, Ind.

WANTED—Sober, reliable man with fair knowledge of rose growing, on commercial place; also capable of taking charge when required. Address B, care Geo. Anderson, 5230 Woodland Ave., Philadelphia, Pa.

WANTED—A single young man aged between 20 and 30, for general greenhouse work. State experince, and wages expected. A good opening to learn the cut flower trade Address I L, Tacony, Philadelphia, Pa.

WANTED—At once, two young men; must have good experience in the growth and propagation of roses and other plants usually grown for a retail catalogue trade. Must be well recommended, and be rapid workers. Apply, giving references and stating wages expected with room and board, to EVERGREEN LODGE FLOWER GARDEN, Clarksville, Tenn.

FOR RENT—Greenhouses, either with or without dwelling. Address VIRGINIA, care American Florist, Chicago.

FOR SALE—Greenhouses and stock. For particulars, address W. S. SAWYER & Co., Lincoln, Neb.

FOR SALE OR LEASE—Greenhouses and dwelling, with or without market garden attached Address VIRGINIA, care Am. Florist, Chicago.

FOR SALE OR LEASE—A growing business, with greenhouses, dwelling and ample grounds. Address VIRGINIA, care American Florist, Chicago.

FOR SALE—Second-hand glass, 25 to 30 boxes each, 10x15 and 8x10 double thick ground glass. No broken or cracked lights. $2.00 per box. Box 234, Lee, Mass.

FOR SALE—Three greenhouses well stocked, good trade, old stand, in city, 6 miles, town 5,000, new depot, cheap, going to Scotland, part left on mortgage. HOMO, care American Florist.

FOR RENT—Greenhouses containing about 8,000 square feet of glass, heated by a Dunning steam boiler, together with two acres of ground, situated 5 miles from Washington, D. C. Address MRS. L. B. CHANDLER, 2d Auditor's office, Washington, D. C.

FOR SALE—Well established and centrally located florist business, including residence, lot 100x134, greenhouses, boiler, etc., and choice stock, in a city of 50 000 population. Reason for selling, death of late proprietor. A splendid opportunity for a man of small capital. For further particulars address, FARMER & FARMER, Solicitors for administratrix, Hamilton, Ontario.

FOR SALE.

One large Tubular boiler and pipes used in the heating of several large greenhouses. Also horse-shoe boiler and accompanying pipes capable of successfully heating three greenhouses. Both in perfect order

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WANTED.

An active business partner with capital of from $3 000 to $5.000 in Greenhouse and Seed Business. A fast growing northern town of 33,000 Flower business quite new in the locality. A large and rapidly settling territory to be supplied from this point with seeds, plants and flowers. Eight or ten towns of 4000 or 5000, and a great number of smaller places are tributary to it. On application from a practical florist with the above capital, catalogue for 1892 will be sent, and full particulars given. Change of business in July or August. Addre s NORTH, care American Florist, Chicago.

FOR SALE—Greenhouse Fixtures.

94 Windows several uniform sizes; 18 windows odd sizes; all painted and in good condition; containing about 2,400 feet 8x10 glass. Also water heater and about 850 feet iron pipe with connections and valves. Must be sold to close out business. A splendid opening for a good greenhouse commanding extensive sales of cut flowers and designs.

The above fixtures will be sold cheap at a single sale or in parcels to suit purchasers. For further information, apply to H. PFUND, Executor of Fred Schelbel dece'd. Madison, Wis.

FOR SALE.

Nine greenhouses, containing 16,000 feet, of glass, with 8 lots of land, each 40x175 feet elegant dwelling with 11 rooms; barn, wagons, cart, horse and harnesses The above property is located in one of the most beautiful western cities, within 5 miles of the city hall, within one square of electric and cable cars; the same will be sold cheap, as the owner is not able to run the same himself. The above houses have only been built 5 years; modernly constructed, 12x18 double thick best quality glass; heated by steam; abundance of water both from wells and cisterns They are filled with palms, ferns, roses, carnations and bedding plants of all descriptions and all will go with them. Address J M, care American Florist, Chicago.

FOR SALE.

Nine greenhouses containing about 16,000 feet of glass, ⅛ best double glass; all houses rebuilt 4 years ago; heated by hot water—use city water for watering—2 acres of land, 1 brick dwelling house with 8 rooms, 1 frame house of 4 rooms, stable, horse, harness, wagon, etc. The above property is located in one of the best commercial cities of the west, with a population of over 60,000, and within 1¼ miles of city hall; electric cars pass every 6 minutes direct to city hall and Union depot. The greenhouses are well advertised and enjoy a good patronage at home and from abroad, and now contain a good stock of cut flowers, decorative and bedding plants. Poor health causes owner to retire from business. Would also be willing to sell greenhouses and stock and lease grounds and one dwelling house for a number of years, with privilege to purchase at a fixed price when lease expires. A bargain to a man with small capital. Address BUSINESS, care American Florist, Chicago.

HARVARD UNIVERSITY.

SUMMER COURSE IN HORTICULTURE. 1892.

A Summer Course in Horticulture will be given at the Bussey Institution, beginning July 6, and ending August 3.

Instruction will be given on the theory and practice of gardening.

The course will be open to women.

The fee will be $25, payable in advance to Mr. C. F. Mason, Bursar, Wadsworth House, Cambridge, Mass.

For a synopsis of the course, both lectures and field work or other information, address B. M. WATSON, Jr., Jamaica Plain, Mass.

Circulars descriptive of the other Summer Schools of the University may be obtained on application to the Secretary of Harvard Uuiversity, Cambridge, Mass.

Verbenas

IN BUD AND BLOOM.

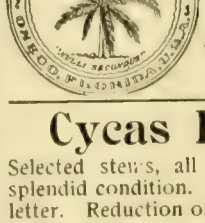
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Mammoths—Large fine flowers	$3 00	$25 00
General Collection—Good collection	2.50	22.00

Roses. Fine, healthy stock from 2½-inch pots.

Wahan, Pearl, Mermet, Mme. Hoste, Sunset, Mme. Cusin, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, S. d'un Ami	5.00	45.00
H. P. Roses, in bud and bloom, 4 and 5-inch pots, strong plants	$15 to 25 00	
Tea Roses, in bud and bloom, 4 & 5-in. pots, strong plants	$10 to 15 00	
Alternantheras, 4 vars., strong plants	4.00	
Cannas, strong started bulbs, 4-in. pots	8 00	
Tuberoses, " " 4-in. pots	6 00	
Dracæna indivisa, strong plants	40.00	

☞ Send for price list of other stock.

WOOD BROTHERS,
FISHKILL, N. Y



NEW PLANTS.

Rare tropical fruit and ornamental plants, trees, vines, bulbs, from the four corners of the earth. Choice Florida plants of merit. Palms, decorative stock, etc. Send for special wholesale list, or Notice page 555 Feb. 4th FLORIST.

REASONER BROS.,
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Cycas Revoluta.

Selected stems, all sizes, just arrived in splendid condition. Lowest quotations by letter. Reduction on large quantities.

F. W. O. SCHMITZ & CO.,
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DWARF BOX

WELL ROOTED PLANTS.

Per hundred $1.00
Per thousand 8.00

Address orders to **HENRY S. RUPP & SONS,**
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FLORAL DESIGNS,

The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to

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ROSES.

We offer **below** Roses, from 2-inch pots, at $30.00 per 1000, our selection; and $40.00 your own selection.

Reine Olga Wurtemburgh	Chas. Rovolli
Pride of Washington	Sombreuil
Triumphant	Mme. de Watteville
Etoile de Lyon	Marechal Niel
The Bride	Gloire de Dijon
Mlle. F. Kruger	Lady Washington
Compte de la Barth	Queen's Scarlet
Hermosa	A. D Charles
Malmaison	Louis Phillip
Perle des Jardins	Pink Daily
Waban	Mme. Alf. Carrier
Catherine Mermet	Mlle. Anette Seaut
Marie Guillot	Tennessee Belle
Mlle. Laurette Massimy	Bennett's Seedling
Miss Edith Gifford	Champeny
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Below sorts we offer at $5.00 per 100, or $45.00 per 1000.

Mme. Laing	Boule de Niege
Perle des Blanches	Glory of Cheshunt
Anna de Diesbach	Boildieu
Pæonia	Louis Van Houtte
Gloire Lyonnaise	Gen. Jacqueminot
Count of Oxford	Magna Charta
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Coquette des Blanches	Pride of Waltham
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Lady Emily Peel	Etc., Etc.

Roses are in fine condition and will give satisfaction. Sample mailed if desired.

ADDRESS **NANZ & NEUNER,**
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Roses

From 2½-inch pots, $5 00 per 100
" 3 " " $8.00 per 100

Brides, Mme. Cusin, Cath. Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban.

The Climbing Perle des Jardins and Climbing Niphetos, $12 per 100, 2½-in. pots.

CHRYSANTHEMUMS.
All the leading varieties, at $5.00 per 100.
EXCELLENT STOCK.

JOHN HENDERSON CO.,
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We have the finest plants and largest assortment in 2½-in. pots ever in the northwest.

	Per 100		Per 100
Waban	$6 00	Niphetos	$ 6 00
Mme. de Watteville	6 00	Sunset	6.00
Wootton	6.00	Bride	6 00
Meteor	6 00	Perle	6 00
Mme. Hoste	6 00	La France	6 00
Mermet	6 00	Am Beauty	10.00
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Also a large stock of VERBENAS, at $4.00 per 100.

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All the Standard Varieties, best for forcing. Strong, healthy plants in 2-inch and 3-inch pots propagated and raised from best wood. Price list sent on application.

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Mermets, Brides, and Mme. Hoste, strong plants from 2-inch pots, ready to shift into 3-inch, $4.00 per 100.

Send Stamp for Special Orchid Bargains.

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THE SENSATIONAL ROSE
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WATCH IT.

LAST WINTER'S RECORD.—First: A FAST COLOR in all weather. Second: Absolute exemption from malformed blooms Third: Always selling for fifty per cent more than any other roses of the Mermet class. Fourth: Exhibited once; at Philadelphia; winning both Certificate of Merit and a First Premium.

NOTE.—The Shape of the **Bridesmaid** is the same as that of **The Bride.** Its peculiar pink color is distinctively its own, and weatherproof. The bushes are robust, have never had mildew and have not been overtaxed for cuttings. They are free bloomers. For an independent description of it see AMERICAN FLORIST for April 21st, page 828, top half of first column. The young plants this season have been distributed from California to France; but chiefly in northern New Jersey and northern Ohio. Some splendid plants remaining. For references, consult neighboring rose growers.

100 3-INCH PLANTS, $25.00; dozen, $9.00.

"This is the most beautiful pink rose known."—JOHN N. MAY.
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All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

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Strong plants always in stock. Orders taken for spring delivery, healthy plants, $8 per 100.

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All the leading varieties—Beauty, Guillot, Bride, Mermet, Perle, and others now ready for shifting. You will find it to your advantage to plant nothing but carefully selected stock.

Send for list before placing your order. **M. A. HUNT, TERRE HAUTE, IND.**

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100,000 Roses for florists' planting, strong, healthy plants of the leading varieties for forcing. Per 100, out of 2½-in. 3-in. 4-in.

PERLE, SUNSET, WABAN, LA FRANCE	$ 6.00	$12.00	$15.00
MERMETS, BRIDES, NIPHETOS, PAPA GONTIER, MME. CUSIN, MME. WATTEVILLE, MME. HOSTE and GEN. JACQUEMINOT	5 00	9 00	12 00

20,000 CHRYSANTHEMUMS, 100 varieties, including Novelties of '92. and the best standard sorts. Send for catalogue.

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WABAN,
MERMET,
AND BRIDE,

ROSES,

2½-inch pots, $3.50 per hundred; $30.00 per thousand, good strong plants.

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PANSIES	$1 00 per 100
GERANIUMS, 4 inch	8 00 per 100
FUCHSIAS, 4-inch	7.00 per 100
BEGONIA METALLICA, 4 inch	1 00 a doz.
DAISY SNOWFLAKE, 4-inch	6 00 per 100
PYRETHRUM, 4-inch	.75 a doz.
CINERARIA MARITIMA, flats	1.50 per 100

Cash with order.

☞ Small Geraniums, Fuchsias, Alyssum and Lobelia and Carnations, sold out.

THE COTTAGE GARDEN,
EAST MORICHES, N. Y.

ROSES.

TEAS	$30.00 per 1000
HYBRIDS	40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

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ROSES.

The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in. pots, per 100, Waban, $6 00; Duchess of Albany, and Meteor, $5 00 per 100; La France, Bride, Sunset $5.00 per 100; Perle, Mermet, $4 50; Bennett, $8 00 per 100.

Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

C. A. SMITH FLORAL CO.,
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CLEMATIS.

Strong heavy plants	doz. $4 00
Lighter, equal to imported	doz. 3.00
ROSES—H. P. 2 year, own roots, choice kinds	per 100 10.00
DAHLIAS—50 vars., whole roots, proved sorts	per 100 8.00

SMILAX SEEDLINGS—Beautiful stocky plants, for immediate potting, 75 cts. per 100; per 1000, $6.00.

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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A GENERAL INTRODUCTION.

There has been some little complaint of the difficulty of identifying those we would like to meet and become personally acquainted with at the annual conventions of the Society of American Florists. Various plans to make identification easier have been suggested, but all have either been impracticable or have had some objectionable feature that militated against their adoption.

The AMERICAN FLORIST proposes to solve this problem in a way that will we believe be eminently satisfactory to every member of the society, and without any expense to that organization. Our plan is to print in our convention supplement portraits of every member of the Society of American Florists who expects to be present at the Washington meeting. Of course, in order to give space to such a large number, each one will be reduced in size, but they will be good portraits and large enough so that the originals may be readily recognized from them. These portraits will be numbered consecutively and the names given opposite their respective numbers on an adjoining page, and there will also be given in the supplement an alphabetical list of the names, referring to the portrait by number, so that reference from and to the portraits will be quick and convenient.

If you expect to be present at the Washington meeting next August, and are a member of the Society of American Florists, or expect to join at Washington, please send us a recent photograph of yourself, cabinet size preferred. If you have no recent photo, have one taken. This should be attended to now, for with the great amount of engraving that will have to be done we must have the photos in hand by July 15 at the latest. And do not send photos that need to be returned to you as they will have to be cut in arranging in the groups. If you have a good recent photo send it in to us now, always writing name and address on the back.

SOME BRANCHES of the double flowering plum (Prunus triloba) closely set with handsome, delicate pink blooms have been sent us by Dr. I. A. Kennicott, Chicago. He says that the tree is as hardy as a rock with him, which should give Chicago planters confidence in its ability to stand this trying climate. It certainly is a remarkably handsome thing and would be extremely useful to florists for outdoor decoration and cutting. An illustration of this plum, in full bloom, appeared on page 755 of our issue for March 31 last.

YOU CAN'T AFFORD to do business without a copy of our new trade directory and reference book.

NEW CROZY CANNAS

will make you money **FASTER** than any other plants for the next year. We are headquarters for

	Each.
MADAME CROZY, 3½ feet	$.60
Star of '91, 3 feet	.50
Alphonse Bouvier, grand flower, deep, lustrous vermilion	1.50
Childsii, 3½ feet, yellow spotted	.20
Gustave Senneholz, 2½ feet, salmon	.50
Louis de Merode, 3 feet, amaranth	.35
M. Lefebvre, 4 ft., leaves veined purple	.35
Miss S. Hill, 2½ ft., amaranth	.75
M. Duterail, 2½ ft., saffron	.50
J. D. Cabos, 4 feet, purple leaves, clear apricot flower, extra	$1.00
Alice Lefebvre, 3 feet, cherry	.75
Edward Michel, 3 feet, orange flowers	.35
Henry de Vilmorin, 4 ft., red and yellow	.25
Perfection, 3 feet, yellow spotted red	.35
Prof. Charguerand, 3 feet, crimson	.35
Pres. Carnot, purple leaves, carmine fls.	.35
The Garden, deep saffron, extra	.75
Sec'y Stewart, new (Crozy seedling sent us under number and named by us,) 3½ ft., purple foliage, flower currant red, strong spike	3.50
Pres. Faivre, grand bronze, bedder,	$1.25 doz.

NEW YORK: 12 Barclay Street. **J. C. VAUGHAN, CHICAGO.**

EASTERN ORDERS PREPAID TO NEW YORK CITY.

GRAND NEW CANNA "VENTURA".

Habit distinct, largest flowers of any sort yet offered. Self color. A beautiful blending of carmine and scarlet. Petals 1¼ to 1½ inches across by 3 inches long, tapering to center of flower and curving gracefully outward. Spikes large; flowers not crowded; foliage handsome dark green with darker line on edge of leaves; height 3½ to 4 feet. Splendid bloomer; vigorous grower.

75 cents each. Special rates for large quantities.

SEND FOR TRADE LIST. Mention this paper.

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CANNAS.

EMILE LECLERC, yellow, spotted orange, 60c per doz; $4.00 per 100.

PRESIDENT FAIVRE, the very best old variety having dark leaves, $1.50 per doz.; $10.00 per 100.

PREMICES DE NICE, the most effective variety having yellow flowers, for massing, $1.00 per doz.; $6.00 per 100; $50.00 per 1000.

MIXED "CROZY" CANNAS, $1.00 per dozen.

ORDER EARLY.

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Mention American Florist.



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Bouquet Pin

is **used** and **endorsed** by well known florists from **Maine** to **Mexico.**

(It sells with the Bouquet.)

HANDY and USEFUL

Approved by the Society of American Florists.

A PRACTICAL Bouquet Pin which SAVES TIME both to the florist and his patrons.

75 Cents a GROSS.

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Send for my PRIMER, free.

Chicago Agent:

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Mention American Florist.

R. J. MENDENHALL,

The Pioneer Florist of the Northwest.

—ALL KINDS OF—

CUT FLOWERS IN SEASON,

At Retail and Wholesale

And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist. Send for Catalogue.

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CAPE JASMINES.

We have **100,000 Cape Jasmine Cut Flowers,** of the large flowering variety, and are prepared to ship any quantity **any distance, with perfect safety.**

ORDINARY VARIETY.....$2.00 per 100

LARGE FLOWERING VARIETY, 3 00 "

Special prices in large quantities.

TRY THEM, the best selling cut flower in the market. Cash must accompany all orders.

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CHOICEST QUALITY. LOW PRICES.

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Mention American Florist.

For June Wedding Decorations.

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Cut Strings 8 to 12 feet long, 50 cents per string.

Order from any wholesale dealers in Boston or from the greenhouses.

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Send for catalogue.

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All Flowers in Season.

Full line of FLORISTS' SUPPLIES.

NOTICE.

We have the exclusive control of the largest crop of

JACQ. ROSES,

GROWN UNDER GLASS,

that has ever been put on this market. Place your orders at least one day in advance if possible.

Present Price, $10.00 per 100.

Don't forget that HUNT is the man to get them of.

KENNICOTT BROS.,

Wholesale Florists,

34 & 36 RANDOLPH STREET,

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WIRE WORK A SPECIALTY.

A. L. RANDALL,

Wholesale Florist and Dealer in

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Store Closes Nights 9 P. M.: Sunday 2 P. M.

H. L. SUNDERBRUCH,

WHOLESALE FLORIST

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WELCH BROS.

WHOLESALE FLORISTS

165 Tremont St., BOSTON, MASS.

We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. **Return Telegram** is sent immediately when it is impossible to fill order.

GEO. MULLEN,

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Florists' Supplies Always in Stock.

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Wholesale Markets.

Cut Flowers.

BOSTON, May 24.

Roses, Bon Silene	1 00
" Gontier, Niphetos	2.00@ 3 00
" Perle, Sunset	2.00@ 3 00
" Mermets, Wabans, Brides	3 00@ 4 00
" Jacqs	8.00@16 00
Carnations	1 00@ 2 00
Valley, outdoor	.50@ 2 00
Narcissus poeticus	1 00@ 2 00
Callas	10 00@12.00
Harrisii lilies	8 00
Spiræa	3 00
Sweet peas	1 00
Smilax	12.00@25 00
Asparagus	50.00
Adiantum	1 00

NEW YORK, May 24.

Roses, Gontiers, Niphetos,	1.00@ 2 00
" Perle, Sunset, Cusin	1 00@ 2 00
" Mermet, Bride Watteville	2 00@ 3 00
" Jacqs	3 00@ 8 00
" Beauties	5.00@20.00
" Hybrids	3.00@20.00
Carnations	75@ 1 00
Valley	1.00
Narcissus poeticus	1 00
Harrisii	4 00@ 6.00
Callas	6.00@ 8 00
Sweet peas	1.00@ 2 00
Mignonette	1 00@ 2.00
Smilax	10 00@20 00
Adiantums	1.00

PHILADELPHIA, May 24.

Roses, Brunners	20.00@30 00
" Laings, Luizets	25.00
" Beauties	15.00@25.00
" Mermets, Brides	5 00
" La France, Albany	5.00
" Jacqs	8.00@12.00
" Cusins, Watteville	4 00@ 5.00
" Perles, Niphetos, Gontiers	3 00
Carnations	1 00@ 1 25
Sweet peas	2.00
Tulips	2.00@ 4 00
Harrisii	5.00
Smilax	20.00@25 00
Adiantums	1.00
Outdoor valley	1 50
Forced valley	5.00

CHICAGO, May 26.

DECORATION DAY PRICES.

Roses, Perle, Niphetos, Gontier	4.00@ 6.00
" Bon Silenes	3 00
" Mermets, La France, Hoste	5.00@ 7.00
" Bennetts, Dukes, Woottons	6.00@ 8 00
" Albany, Bride	6.00@ 8 00
" Am. Beauties	15.00@25.00
" Jacq	10.00@15 00
Carnations, long	1.50@ 2.50
" short	1 00@ 1 50
Tulips	3.00@ 5.00
Valley	3.00
Callas	10 00@15.00
Harrisii	10.00@15 00
Adiantums	1 00@ 1 25
Smilax	22.00@25.00
Narcissus poeticus single	1.00@ 2.00
" double	2 00@ 3 00
Pæonies	7 00@10 00
Cape Jessamine	2 50@ 4.00
Pansies	.40@ .50
Gladioli	10.00

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Successors to WM. J. STEWART,

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N. F. McCARTHY & CO.

Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place through Music Hall.

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Roses Shipped to all Points. Price list on application.

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(Successor to C. E. & S. S. PENNOCK,)

Wholesale Florists,

38 S. 16th Street, Philadelphia, Pa.

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WHOLESALE

FLORISTS.

1122 PINE STREET

ST. LOUIS, MO.

A complete line of Wire Designs.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., second Tuesday in June, 1892. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

MR. ALBERT MCCULLOUGH is off on an European trip. He will return in July.

PHILADELPHIA.—Mr. Z. DeForest Ely has been elected commander of St. Alban Commandery, Knights Templar.

ELK RAPIDS, MICH. is coming to the front as a pea growing section; Mr. A. J. Brown, of Grand Rapids, has recently erected a large warehouse there.

MR. LEM BOWEN, representing D. M. Ferry & Co., passed through Chicago May 23 on his way to California. He was accompanied by his wife and will combine pleasure and business on the trip.

DO YOU WANT the government statistics of the Florist, Nursery and Seed trades from the last census where you can have them convenient for reference. You will find them all in our new trade directory and reference book.

News Notes.

UTICA, N. Y.—Samuel Davies, the well known florist, died recently, aged 41 years.

PITTSBURG.—Among the plaintiffs in a suit against the city in a case of alleged illegal assessment of taxes appear the names of Alex. and J. R. Murdoch.

DALLAS, TEXAS.—Trade has held up fairly well to this date, but some of the florists have cut the prices of plants at a terrible rate, offering assorted plants at the rate of 15 to 30 for $1.

KANSAS CITY.—Wm. H. Humfeld, until lately with N. S. Griffith, has leased land on Block street and will erect thereon nine greenhouses, to be used mainly for growing cut flowers for this market. Of the houses four will be 10x75 and four 20x45, in addition to propagating house, office, etc. He has adopted the name Humfeld Floral Co.

MEMPHIS, TENN.—Messrs. Paul Uhlman and Albert Haisch, for the past two years employes of the Evergreen Lodge Flower Garden, at Clarksville, Tenn., have leased for a term of five years the Henry Moore place, this city, and will take possession June 1st. They have purchased the entire stock of plants, supplies and appliances, and will do business under the title of Uhlmann & Haisch.

Send for Catalogue of

JAPAN BULBS, SEEDS, AND SHRUBS.

ARAUCARIAS, AUSTRALIAN Palm Seeds,

CALIFORNIA BULBS AND SEEDS to

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ESTABLISHED 1878 SAN FRANCISCO, CAL.

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25,000 GLADIOLUS

		Per 100	Per 1000
10,000	Red and Scarlet mixed,	$1.00	$ 7.50
15,000	All Colors mixed, - -	1.25	10.00
1,000	Pink and Striped, - - -	1.50	12.00
1,000	White and Light, - -	2.50	22.00

Z. DE FOREST ELY & Co.,

IMPORTERS OF BULBS FOR FLORISTS,

1303 Market Street, PHILADELPHIA, PA.

TRADE SALES
—OF—
BEDDING AND ORNAMENTAL PLANTS

from the best growers, every Wednesday and Saturday until June, at 10 o'clock A. M.,

AT

111 FEDERAL ST., BOSTON, MASS.

Parties at a distance may send orders to purchase, naming a limit.

EDWARD HATCH, Auctioneer.

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AUCTIONEERS OF

PLANTS, BULBS,

SHRUBS, ORCHIDS, ETC.

205 Greenwich St., NEW YORK.

OUR SALES
—OF—
Ornamental and Flowering Plants

Will take place on

Tuesday and Friday of each week.

Special days have been set apart for the sale of Orchids.

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BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendale and Zantpoort, near Haarlem, Holland.

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THE ZIMMERMAN

The Standard Machine

Different sizes and prices. Illustrated Catalogue free.

THE BLYMYER IRON WORKS CO., Cincinnati, O.

GARDINER'S

Beautiful Summer Flowering

BULBS.

Many rare and beautiful varieties suitable for summer flowers may be secured now at greatly reduced rates as we must now close out stocks for the season.

CLEARING SALE.

Commencing Saturday, May 28, 1892 and continuing until every item is closed. Let us hear from you at once, as a **quick movement** is certain at the prices named. Every thing we offer is guaranteed sound and of first-class quality.

JOHN GARDINER & CO.

		Reduced from Per 100	To Per 100
107	Cyclobothra flava	$ 4 00	$ 3 00
105	Bessera elegans	4 00	3.00
400	Cooperia Drummondi	4 00	3 00
112	Nerine sarniensis (Guernsey lily)	10 00	7.00
550	" corusicans superba	15 00	10 00
195	Epidendrum conopseum (Butterfly orchid)	10 00	5 00
370	Crimson-Eyed Hibiscus (hardy; new)	8 00	4 00
169	Turkey's Beard	5.00	3 00
207	Lilium tigrinum splendens	6 00	4 00
150	" speciosum rubrum	10 00	7.00
100	" speciosum roseum	10.00	7.00
2380	WHITE SPIDER LILY	8.00	3.00
2350	HARDY DAY-BLOOMING MOON-FLOWER	8.00	4 00
434	Hyacinthus candicans	2 00	1 00
172	Amaryllis Formosissima	8.00	6 00
300	Madeira Vine roots	2 00	1.00
83	Pancratium maritimum (South Sea Daffodil)	15.00	10.00

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Alternanthera, fine	$2.50	per 100
Torenia, fine	2.50	"
Double Petunia, 3½-in. pots, for retail,	6 cts	
Dracæna indivisa, 30-inch	25 cts	
Forcing Roses, 3-inch, fine	6 cts	

McCREA & COLE, Battle Creek, Mich

HYACINTHS, TULIPS,

DAFFODILS, NARCISSUS, LILIES,

AND ALL OTHER BULBS FOR FORCING AND OUTDOOR, IN FINEST QUALITY, AT REASONABLE RATES.

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Please ORDER ON RECEIPT of our Catalogue.

SEGERS BROTHERS,

WHOLESALE BULB GROWERS,

LISSE, near Haarlem, **HOLLAND.**



WE can give you the inside track on forcing bulbs, both in quality and price. Write us at once. Special Wholesale Price List now ready. Don't fool with poor stock. Get your supplies from us.

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BULB GROWERS AND IMPORTERS,

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ROMAN HYACINTHS, PAPER WHITES,

Lilium Harrisii, Berlin Pips Lily Valley, Tuberoses, Azalea Indica, etc.

PRICES QUOTED and ORDERS BOOKED FOR SUMMER AND FALL DELIVERY.

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BULBS. BULBS.

We book orders now for

Lilium Auratum, Speciosum Album, Speciosum Rubrum, Longiflorum, etc., Chinese Narcissus and CALLA BULBS.

Cycas revoluta, fine imported stems, 10 cents per lb. Araucarias and Australian Palm Seeds.

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HAARLEM, HOLLAND,

Grower and cultivator of choice Dutch Bulbs, Hyacinths, Tulips, etc., etc.; also of various bulbous plants, guaranteed true to name. Beautiful and attractive for gardens and conservatories. Orders solicited. Catalogues free on application to his agents,

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DAFFODIL BULBS for FORCING.

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One of the largest collections in Europe at HARTLAND'S, CORK, IRELAND.

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Trade prices for large lots post free. Shipments DIRECT from Queenstown.

WM. BAYLOR HARTLAND, Seedsman & Florist,

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Daffodil Grounds, ARD CAIRN.

R. VAN DER SCHOOT & SON,

HILLEGOM, - HOLLAND,

Largest Growers of

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.

HEADQUARTERS FOR HIGH GRADE FORCING BULBS.

Wholesale Importers should write us for Prices.

OUR NEW TRADE LIST NOW READY.



TRY **DREER'S GARDEN SEEDS**

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN. CONN.

Mention American Florist.

BERLIN LILY OF THE VALLEY PIPS

We are now ready to take orders for Ernst Reimschneider, Altona, Hamburg, CELEBRATED BERLIN LILY OF THE VALLEY PIPS. Catalogues free on application to his agents,

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LILY OF THE VALLEY

FROM A RELIABLE QUARTER.

I offer for delivery from Nov. 15 to Dec. 15, the VERY BEST, THOROUGHLY MATURED, TESTED HAMBURG FORCING PIPS, f. o. b. cars Baltimore.

$1.25 per hundred.
$5.00 per five hundred
$8.50 per thousand.
$30.00 per ten thousand

Order now and be sure you will be satisfied.

Special prices for larger orders.

THEO. ECKARDT,

RIDER'S P. O., Baltimore Co., Md.

FORCING BULBS

TRY US ON PRICES.

QUALITY OF STOCK WILL SUIT.

W. W. BARNARD & CO.,

6 and 8 North Clark Street, CHICAGO.

DUTCH BULBS.

JOHN BARTH BOS,

OVERVEEN, near Haarlem, HOLLAND.

ESTABLISHED 1868.

Large grower of Hyacinths, Tulips, Narcissus, Crocus, Lilies, etc.

Before ordering bulbs, write me for a catalogue.

Washington, D. C.

"See Naples and then die," said an enthusiastic tourist to an Iowan the other day in a hotel corridor here. Quick as a flash the Hawkeye retorted: "Nonsense—see Washington in May and live long enough to *do* the great fair in Chicago next year, that's all I ask for." He was not far from correctly echoing the sentiments of nine-tenths of all Americans, and many foreigners who are privileged to visit the national capital at this season, and read what all is said of the grandeur of the approaching great Columbian Exposition, the crowning event of the age.

At no time of the year is Washington more attractive—its numerous parks and clean, well paved avenues more inviting—its many thousand of shade trees more beautiful, and the floral display in the suburban fields more dainty and plentiful. And it is just this circumstance which the æsthetic and keen eyed decorators of this locality have seized upon and are annually developing more and more into a special feature of national decorative art. Great branches of dogwood bloom, of cherry and apple blossoms are deftly worked into great mural rosettes, or converted into the most fairy-like bowers indoors, or for garden and lawn parties, for luncheons, dinners and weddings, the flowering almond, callas, Harrisiis, hydrangeas, snowballs and spiræas are extensively utilized, either massed or in sprays. Nothing could have been more simple and effective than a dado some two feet wide around the entire circuit of a dining room made up of pendant snowball sprays interspersed with tufts of Asparagus plumosus.

For table decorations, one of the daintiest consisted of delicate wreaths of arbutus around each plate with well wired tiny rosettes of the same flower for the ladies and boutonnieres for the gentlemen. Another unique and rather pastoral decoration at a suburban dinner, consisted of shallow cut glass dishes filled with buttercups alternating the length of the table, and also upon stands and mantels, with tall, delicate V shaped glasses or vases loosely filled with daisies and grasses, and garlands of flowering pea. Potted plants, especially dwarf hydrangeas and calceolarias, the pots encased in the most delicate of white cotton batting secured by wide satin ribbon neatly tied with a bow, are also in vogue for house decoration and prove very effective where proper attention is given to contrast in colors of ribbon and flowers.

Trade is by no means at a stand still, and roses continue to be favorites. One dealer who caters to a certain class of customers, claims to have taken within the present month on a single day, orders for no less than 19,000 buds, at prices ranging from 25 cents to $1 per dozen, and that at no time his supply has exceeded the demand. La France seems to hold its lead, and select blooms with extra long stems were selling the other day at one of the florists for $3 per dozen, while some choice Brunners were held at $6 per dozen.

The spring auction sales of potted plants have commenced, but do not seem to noticeably affect the prevailing market prices.

H. Payne, late with Freeman, has recently started into business on his own account at the latter's former establishment, corner Thirteenth and E streets, and is giving special attention to decorative work. Z.



WHY NOT give us a chance to figure on your Bulb order? We can give you good stock at low prices.

SPHAGNUM.

First Quality (full size and weight), $1.10 per Bale.

Will contract for large quantities at a low figure.

S. F. LEONARD, 153-155 W. RANDOLPH STREET, CHICAGO.

ROOTED CUTTINGS.

CARNATIONS.

LIZZIE McGOWAN.—More good and fewer poor points than any white Carnation ever sent out. Strong well rooted cuttings at $2.00 per 100.

PANSIES.—Good stocky little plants in bud and bloom, at $2.00 per 100, or $15.00 per 1000. 250 at 1000 rates. Almost every florist knows how good the strain is.

CANNA.—Emile Leclaire, as pretty as an orchid, yellow with brown markings, $3.50 per 100.

L. B. 338. ALBERT M. HERR, LANCASTER, PA.

Mention American Florist.

SEEDLING CARNATIONS WHOLESALE.

PEARL white, very large & showy, stems long, erect and stiff, endorsed by leading commercial growers. Also AURORA, GRACE DARLING, THOS. CARTLEDGE & PURITAN, besides the best novelties and a full list of standard sorts.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, PA.

C. C. Abel & Company
P. O. Box 920, NEW YORK,
FLORIST'S, NURSERYMEN'S AND SEEDSMEN'S AGENTS,
For the following
WELL KNOWN AND RELIABLE HOUSES,
For whom we solicit your orders:

C. G. VAN TUBERGEN, Jr., Florist and Seedsman, Haarlem, Holland. Choice Dutch Bulbs, Novelties, etc.

PIERRE SEBIRE & SONS, Nurserymen, Ussy, France. Roses, Fruit and Forest stocks.

V. LEMOINE & SONS, Florists, Nancy, France. New varieties of Plants and Bulbs a specialty, etc.

ERNST RIEMSCHNEIDER, Florist and Seedsman, Altona, Germany. Berlin Lily of the Valley a specialty.

G. BENARD, Nurseryman, Orleans, France. Roses and other stocks.

FRANCIS REBUFA, Florist, Oullins, France. Roman Hyacinths and other Bulbs.

G. A. VAN DER GOOT, Nurseryman, Elst, Netherlands. Fruit stocks, etc.

THE TOTTENHAM NURSERIES, Limt'd, Dedemsvaart, Netherlands.

Catalogues (mention which) free on application when received for distribution.
All orders for these houses should be plainly written and addressed to us.

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Always on hand in New York from November until May.

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FOR SALE.

My entire stock of plants, glass, etc., including a large stock of Camellia Japonica, from 12 to 24-inch pots; one large Orange tree in full fruit, at greatly reduced rates; am about to retire from business.

R. POLLARD, Florist,
1067 Woodland Ave., Cleveland, Ohio.

SPECIAL CHEAP OFFER

OF BULBS AND ROOTS WE GROW IN LARGE QUANTITY.

Cable Words.		Per 1000
ALEPH	Single Tulips, Scarlet Van Thall	$ 4.50
BETH	" Arlus, scarlet	6.75
GIMEL	" Chrysalora, yellow	17,50
DALETH	" La Reine, white	10.00
HE	" L'immaculee, white	14.00
VAU	" Proserpine, red and pink	25.00
ZAIN	" Rose gris de lin, white and rose	17.50
CHETH	Double Narcissus, albo pleno odorata	6.50
TETH	" " Von Sion, yellow	12.00
JOD	Single Narcissus, Poeticus ornatus	9.00
CAPH	" " Pseudo (Lent lily)	3.50

Cable Words.		Per 100
LAMED	Single Narcissus Sir Watkin	$17 50
MEM	" " Golden Spur	8.00
NUN	" " Bicolor Horsfieldii	10.00
		Per 1000
SAMECH	Iris Anglica, Montblanc, white	$ 15 00
AIN	Gladiolus Colvilli alba	4.50
PE	" " The Bride	5.50
TZADDI	Hyacinthus candicans	6.50
KOPH	Scilla campanulata alba	6 50
RESH	Scilla siberica, blue	3.00
SCHIN	Spiræa compacta multiflora	45.00
		Per 100
TAU	Spiræa astilboides, new	10.00

"Tulips are now very fine and in good demand."—American Florist, February 18th, 1892.
"Daffodils are fine, particularly Von Sion."—American Florist, February 11th, 1892.
"Single Trumpet Narcissus are plenty and sell well."—American Florist, February 11th, 1892.

Our terms are cash with order, for which we allow 5 per cent. discount.

The general Catalogue for 1892 is sent already which refers to other terms with respect to packing, ordering, insurance, carriage, etc When sending a telegram we understand by 5 Cheth 5 Nun, etc.:

5000 DOUBLE NARCISSUS ALBUS PLENUS ODORATUS, white, at $6.50 per 1000.
500 SINGLE NARCISSUS BICOLOR HORSFIELDII, at $10.00 per 100.

Our Registered Cable Address is SEGERSCO, Lisse, Holland.

SEGERS & CO., BULB GROWERS, Lisse, NEAR HAARLEM, Holland, Europe.

Coleus

Can still supply a few thousand rooted cuttings, mixed fancy and bedding varieties, $6.50 per 1000; 90 cts. per 100.

Plants, from 2½ and 3-inch pots, assorted, lots, including Verschaffeltii and Golden Verschaffeltii, $3.00 per 100. No Golden Bedder.

CARNATIONS AND GERANIUMS ALL SOLD.

ALEX. McBRIDE, Alplaus, N. Y.

Late Cabbage Plants

$1.50 PER 1000.

IDEAL WINTER
AND
PREMIUM FLAT DUTCH
$1.50 PER 1000.

Write for prices on larger quantities. Cash with order.

S. O. STREBY,
Lock Box 77. *UPPER SANDUSKY, OHIO.*

Asparagus Plumosus.

Nice plants, from 3-inch pots, $4.00 per dozen; $30.00 per hundred.

C. S. MASON,
FARMINGTON, CONN.

C. H. C. MACHEN & SONS,

• • • Wholesale Growers of • • •

DUTCH BULBS

SEND FOR PRICE LIST.

WARMOND, near Haarlem, HOLLAND.

LAINGS' TUBEROUS BEGONIAS

BEST IN EXISTENCE. LISTS FREE. FOREST HILL, LONDON, ENGLAND.

Tuberous Begonias.

SEEDLING PLANTS.

Single mixed.....per 100 $2 50
Separate colors..... " 3.00

BY MAIL.

Order now, they will stand better than later.

BRAUER & RICHTER, McConnelsville, O.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

Baltimore.

It is almost June, and yet owing to frequent rains little or no planting yet done; the cut flower trade in *articulo mortis*, and the weather so backward that the plant trade is far from making up for it yet. Coal already advanced 25 cents per ton, with the prospect of getting still higher before long. Society people preparing for their spring flitting, and events of importance in the social world few and far between, all taken together makes up a list which indicates that at present and here, the florist's lot is not a happy one.

Still it has attractions which never fail to draw others into the ranks, the latest arrival being Mr. Madsden of Govanstown, who is about erecting houses and becoming a regular commercial florist.

The most important event of the week was the banquet to the officers of the U. S. Cruiser "Baltimore" at which a very handsome set of silverware was presented by the people of the city to the vessel. The decorations were by Wm. J. Halliday and were quite pretty—a model of the ship in flowers, and anchors of roses on the tables, with abundance of fine palms.

Prices are still very low, and stuff going slowly. Really good stuff goes, but while outdoor flowers are so plentiful, ordinary greenhouse bloom hardly pays to send to town. MACK.

OUR CUT FLOWER BUSINESS

Demands all our growing capacity, we have therefore decided to close out our entire stock of plants this season. We start the ball rolling with the following. Speak quick if you want them:

	Per 100
Tuberous Begonias, from the finest European collections	$ 5.00
Clematis, pot grown, 8-inch pots	40.00
Rose, American Beauty, splendid clean young stock	8.00
Fuchsias, all the standard sorts ready for spring sales, 4-inch	8.00
Latania Borbonica, we also have more of this elegant palm than we need and will sell a few 5 and 6-in. stuff in fine condition	100.00

Cut Flowers.

For the balance of this month we offer

ROSES—Brides and Mermets	3.00
" La France	5.00
" American Beauty	8.00
Carnations—Garfield, long	1.50
" Garfield, short	1.00
" Hinze's White, long	1.50
" Hinze's White, short	1.00
Smilax—Good, clean, heavy stock	15.00

Bear in mind this stock is all grown on the place and handled but once. Cut flower buyers know the importance of this. Stock guaranteed A1. No charge for packing.

ADIANTUM CAPILLUS VENERIS—The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
3rd. It requires no season of rest.
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Best for the Cut Flower man:
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2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it has many aliases. **Price, strong plants, $8 per 100.**

Owing to the heavy demand, our stock of this most desirable Fern, ready for immediate shipment, is getting low. In order to accommodate those who wish to make plantings later in the season, we will book orders now for delivery any time till July 1st. This will give florists who are now busy with their spring work an opportunity to secure their stock and have it delivered at a time when they can take care of it.

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Cannas and Tuberous Rooted Begonias.

Write for prices of these plants, well established in pots. Also of Palms, Dracænas, Cycas, etc., for vases, verandas and lawns, and other useful plants and bulbs for planting out. Caladium esculentum, Gladiolus, Tuberoses, Irises, Lilies and all kinds of Hardy Perennials.

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Our own grown Superior Strains.
TRADE PACKAGES, best Single and Double mixed, 50 cents and $1.00 each.

TESTED SEEDS of VICTORIA REGIA and all other WATER LILIES.
FRESH DRACÆNA CANES, all sorts. Large stock of YOUNG PALMS for growing.

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The following plants are all well grown stock, and will make you money.

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HYDRANGEA HORTENSIS and OTAKSA, mixed, 2½-inch pots, nice plants	3.00
GERANIUMS MT. of SNOW, 2½-in. fine plants	4.00
" GOLIAH, strongest growing silver leaf, 2½-inch, strong	3.00
" ROSE-SCENTED, nice, 2-in. plants	2.00
" BEST VARIETIES, single & double, named, my selection, good pl'ts from 2½-inch pots	3.00
" LA FAVORITE, best double white, fine plants, 2½-inch	3.50
" HETERANTHE, fine bedder, 2½-in.	3.00
FUCHSIA STORM KING, splendid stock, 2½-in.	3.00
" ELM CITY and BLAND'S NEW STRIPED 2½-inch, strong	2.50
" WELL ASSORTED, my selection, all good varieties, 2½-inch, strong	2.00
" WELL ASSORTED, my selection, all good varieties, 3-inch, strong	4.50
CHRYSANTHEMUMS, named, my selection, from 10 to 50 varieties, all good kinds, strong plants	2.00
BEGONIA METALLICA, 2½-inch	4.00
" ALBA PICTA, 2½-inch	3.00
" LOBATA VARIEGATA, 2½-inch	2.50
" ZEBRINA, 2½-inch	3.00
CANNAS, good kinds	3.00
ABUTILONS, named, my selection, 2½-inch	3.00
LANTANAS, named, my selection, 2½-inch	3.00
HELIOTROPE GARFIELD, best purple, 2½-in.	2.00
" SNOW WREATH, 2½-inch	3.00
ROSES, TEAS, entirely my selection, but all good varieties, nice plants, from 2½-inch pots	3.00

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Our Specialties for this Season will be

Small, pure white Hyacinths, to succeed the Romans.
Scarlet von Tholl Tulips, La Reine, Chrysalora and other market vars.
Double Von Sion Daffodils in any quantity.
Narcissus Bicolor Horsfieldii, Sir Watkin, Golden Spur, Poeticus ornatus, Albus plenus odoratus.
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Scilla Siberica and other bulbs and bulbous roots for forcing, etc.

Our Catalogue for 1892 will be mailed free on application if not already received, which refers to prices, terms and other information.

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150 Adiantum, assorted, 4-inch pots, strong, at $10 00 per 100.
50 Palms Chamærops, 4 and 5-inch, at $15.
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TERMS: To approved accounts payable next first of December; for **cash within thirty days** after delivery **ten per cent. dircount** allowed. Delivered on board cars in New York, packing free. Warranted sound when leaving New York.

	Per 1000	Per 100
Roman Hyacinths, single early white skin, smaller bulbs, 4–4½ inches around	$14 00	
Ditto, in our best selected size	20 00	$2 40
Ditto, if bought by the case of 2000	19 50	
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Double rosy flowering	18 00	2 00
Narcissus, Paper Whites, in prime quality only	7 50	1 00
" " Grandiflora, ditto	11 00	1 50
Double yellow Von Sion, in so-called flowering quality	15 00	
In our best selected size	18 00	2 00
Single golden yellow Trumpet	16 50	1 80
Single Bicolor Trumpet princeps	16 50	1 80
Single Poeticus ornatus, the early kind	13 00	1 50
Freesia refracta alba, first size bulbs	6 00	
Extra large bulbs	8 50	
Lilium candidum, best forcing size	24 00	2 80
Lilium Harrisii, from the best Bermuda grower, in size A or 5–7 inches in circum	26 67	3 00
" B or 7–9 " "	54 00	6 00
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In size B or 7–9 inches in circum		7 50
Lily of the Valley, November delivery, the best German grown forcing pips	9 00	
If bought by the original box of 2,500 pips	8 00	
This is the same grade as furnished by us to the largest growers all over this country.		
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If bought by the box of 200 clumps, $10 a box.		
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Any Other Bulbs not quoted will be furnished at reasonable cost, prices quoted on application.		
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Single Scarlet Duc von Thol	6 50	75
Single Keizerskroon, scarlet and gold	$20 00	$
" Chrysolora, rich golden yellow	20 00	
" Pottebacker, white	27 50	
" " yellow	20 00	
" " scarlet	17 50	
Tulips mixed, for bedding, single or double, cheapest mixture	7 50	90
Single or double, in very fine mixture	9 00	1 00
" " in our own superfine mixture.	15 00	1 75
Single, red alone	7 50	90
" white alone	11 50	1 25
" yellow alone	20 00	2 25
Double, red alone	16 50	1 80
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" variegated alone	9 50	1 00
Crocus, in mixture, the colors kept separate in nice selection of blue, white or striped shades	2 40	
The same in extra size roots, from named vars.	4 50	
The large yellow flowering kind	3 50	
Dutch Hyacinths, in mixtures in our usual assortment of separate colors, about even, white predominating, and about ⅓ double flowering		
Grade A, or cheap garden mixture, per 500 $14; per 300 $8.75; per 200 $6	27 00	3 00
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Any of the foregoing grades could be furnished at less price if desired, by reducing the standard; state price you want to pay, the quality will be in accordance.		
Dutch Hyacinths, under name, in our selection of only good sorts in many varieties, assorted in colors about evenly, with little yellow, about one third double flowering, in 1 size bulbs, extra fine, per 500 $33; per 300 $20.50; per 200 $14.50	65 00	7 50
In II size bulbs, very good, per 500 $23 50; per 300 $14.50; per 200 $10.50	46 00	5 50
Special varieties desired will be quoted on application.		

CYCLAMEN SEED of the best improved grandiflorum splendens strain, said to be the best in existence, for delivering in August, in four colors evenly assorted: pure white, white with eye, pink, and dark blood red, per 1000 seeds, $10 net. In nice mixture of these shades, the packet of 100 seeds at $1.00 net.

Our W. ROLKER will leave for Europe early in June, and will attend to the supervision of all orders entrusted to us; likewise to the selection of

AZALEAS, RHODODENDRONS, ROSES, PALMS AND OTHER PLANTS,

which we furnish at competitive figures. State your wants, and we will appraise promptly.

DO NOT OVERLOOK that when you cash our bills within thirty days you **pay the Dollar with 90 cents.** For instance, our best **Roman Hyacinths** will cost you only $18.00 net cash the 1000. Our German **Lily of the Valley Pips,** by the case, only $7.20 net the 1000, etc., etc.

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2½-inch pots, 25 leading sorts for cut flowers, $3 per 100; $25 per 1000.
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Mammoth Hartwell Perfection, Giant White Plume, } $2 per 1000.
These varieties are the best and largest known to the trade; selling from 75 cents to $1.25 per bunch. Plants from 3 to 6 inches, packed securely. Cash to accompany order.
BYRON S. ALDRICH,
KALAMAZOO, MICH.

Toronto.

The only and original "Great Scott" honored this city with his presence last week and made as many calls on his large circle of friends here as could be crowded into a couple of days. Your correspondent was one of the fortunate ones called on; he endeavored to induce Mr. Scott to stay over for the Gardeners' and Florists' Association meeting on Tuesday evening but on being told that a speech would certainly be expected of him, with his usual and well known modesty and shyness he regretfully declined on the plea of pressure of business. Seriously however it is a treat to see some of our American brethren here now and then and I should be glad to have more visits to report. Mr. Scott was accompanied by W. Belsey, also a florist hailing from Buffalo, who has a daughter and son-in-law residing here.

"Economy" seems to be the watchword this year with City, Government and the public generally. The city fathers set themselves the task of cutting down taxes to 14½ mills, and of course "Parks and Gardens" (being of least consequence[?]) had to suffer; the Government are doing nothing more than what is absolutely necessary and the head gardeners have to go short of help; and private people are making comparatively no improvements, and as a natural consequence a number of men usually engaged in gardening operations at this time of the year have shaken the dust of this city from their feet and cleared for the States. This is rather a "blue ruin" paragraph, but it is to be hoped that with lower taxes and consequently cheaper living good times will shortly come again once more. A boom which the real estate men have been recently manipulating having "busted" caused the present depression.

The meeting of the Gardeners' and Florists' Association was for the time of year well attended and the flower table was thickly strewn with the finest of the season. Mr. Geo. Hollis brought another seedling carnation, a white, which, if it retains its present form will eclipse anything as yet sent out in quality, size and stem, and the calyx does not look as if it could burst; it is a cross between Swayne and Spray. Mr. Ewing brought a spike of Odontoglossum vexillarium with five very large flowers which attracted much attention, and some one else (I unfortunately omitted to find out who) brought dozens of blooms of the latest things in geraniums, amongst which were some of great size and beauty.

Mr. F. G. Foster moved in most feeling terms a resolution of condolence with the family of the late Mr. Aylett which was spoken to in a similar strain by other members of the Association and carried unanimously. E.

SAMUEL HENSHAW,
LANDSCAPE GARDENER,
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Cyclamen Persicum Giganteum
NICE YOUNG PLANTS
FOR GROWING ON.
Sold to GROWERS ONLY, by the hundred or thousand.
DAVID ALLAN, Mt. Auburn, Mass.
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COLEUS
From 2 and 2 1-4 inch pots,
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Orders for following varieties will be shipped within a few hours after order is received, or if I cannot fill, will notify you at once:

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J. Goode, **Glory of Autumn,**
Chapmanni, red and gold, very fine,
Yeddo, green and white, very fine.

HENDERSON'S NEW COLEUS FIRE CREST,
bright carmine crimson edged with golden yellow. By mail, prepaid, 60 cts. per dozen; $4.00 per 100 by express.

WATER HYACINTHS. A limited quantity, at $1.50 per dozen.
DAHLIAS. I have about 400 large roots to spare, mixed colors, $6 00 per 100.
CASH WITH ORDER OR C. O. D.
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HARDY AND TROPICAL WATER LILIES.
Day and Night Blooming, $1.00 each.
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Nymphæa odorata superba, 25 cts. each; $2.00 per dozen. N. Mexicana, 75 cts. each; $7.50 per dozen. N. Sturtevantii, N. Zanzibarensis (true), $3.00 each.
PAPYRUS ANTIQUORUM (Egyptian Paper Plant), $2.00 per dozen; $15.00 per 100. Water Hyacinths, $10 00 per 100; 25 at 100 rate. Water Poppy and Water Lettuce, $2.00 per doz.; $15.00 per 100.
WM. TRICKER, Dongan Hills, N. Y.
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BEG TO OFFER FOR DELIVERY NEXT AUTUMN:

Azalea mollis, seedlings in variety, bushy plants with buds.	per 100,	$10 to	$18
Azalea Ghent, named varieties,	" "	18 to	24
Rhododendron Hybrids, named vars.	" "	24 to	30
" **Cunningham's White,**	" "	15 to	24
Clematis, named varieties, strong 2 year plants from open ground	"	20	
Roses, dwarf budded H. P., named varieties, strong from open ground	"	6 to	7
Hydrangea panic. grandi., extra strong bushes	"	6	

Lilacs, Viburnum, Deutzia, etc. TRADE LIST on application.

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PARONYCHIOIDES MAJOR and AUREA NANA, strong pot plants, $3 per 100; $25 per 1000. Packed light and satisfaction guaranteed. Send for circular.
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The New Cannas, Mme. Crozy AND Star of 1891.

We have without question the largest stock of these New Cannas in the United States, and have probably more available stock than is held by all other American houses combined.

At the present time we have 300 running feet of greenhouse, 20 feet in width completely filled with these valuable varieties. The price of these Cannas may seem high, but we consider them the most valuable novelties that can be purchased by florists at the present time. Although these prices are high, we will not cut these rates, or sell for less than the prices here quoted this season, and will not unload them at the end of the season as is often done by many houses in the trade, to the injury of the purchasers who have bought early in the season at high prices. We consider these Cannas are worth fully all we ask for them to grow on for another season, and will guarantee buyers that we will not offer them at less prices than here quoted this season, so that buyers can purchase them with confidence. Every florist who has not secured a stock of these Cannas by this time, should do so at once. The demand for these New Cannas is increasing constantly for they are far superior to anything else in the French line, and it will be wise to invest in these to the exclusion of every other of the so-called French varieties that have been offered up to this time. They are head and shoulders above everything else. Send in your order at once, and secure the stock while we have it, for while our stock is large, we do not think it will equal the demand before the season of 1892 is ended. Our plants are *extra strong* and well established, with fine tops, from a foot to 18 inches in height, and can be shipped either from pots, well established, with a fine ball of earth attached, or can be shaken out, and most of the soil removed, in which case they make a much lighter package. In ordering, please state which way you prefer to have the plants shipped you; for long shipments they can go as well with almost all the soil shaken out. Park and Cemetery Superintendents and florists generally should make large plantings of this stock, which will make a fine display for them, and the increase of the stock will be one of the best investments that can be made for another year.

The flowers of "Madame Crozy" are a flaming scarlet bordered with gold, a marvelous combination of colors, having all the delicacy and loveliness of the rarest orchid. It produces all the wealth, richness and tropical luxuriance of foliage of the common kinds, added to which is the gorgeousness of their flaming panicles of bloom, which are borne in immense heads at the terminus of every shoot. The individual flowers are five inches in diameter, and when the large size of the flowers and the large heads of bloom are taken in connection with the freedom with which it blooms, it makes one of the most attractive plants for bedding it can be possible to conceive of; it also makes elegant plants for the conservatory both summer and winter—in fact it is one of the finest plants for conservatory decoration there is. Every shoot blooms, and as often as a head of bloom passes its prime another shoot pushes beyond it, and each shoot flowers three, four or five times in succession. As the plants are constantly throwing up shoots from the ground, they continue a mass of most gorgeous bloom.

The flowers of "Star of 1891" are not so perfect individually, but are equally brilliant and indispensable, as it is more dwarf in growth and can be used in planting with Crozy to advantage on this account.

PRICE OF MADAME CROZY, $60.00 per 100. | **PRICE OF STAR OF 1891. $45.00 per 100.**

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F. R. PIERSON COMPANY,

TARRYTOWN-ON-HUDSON, NEW YORK.

St. Louis.

The weather for the past two weeks has been cold and rainy, more than five inches of rain having fallen. The flood has hindered shipping of cut flowers both to and from the city. Good stock is scarce and prices good.

The floral decorations at the third annual banquet given by the trustees of the Missouri Botanical Garden were furnished by the Michell Plant and Seed Co. The table was decorated with Pæonia officinalis, roses Duchess of Albany, plants of orchids and adiantums, and smilax. The curtains and portieres were adorned with asparagus. The pictures were draped and flowering plants grouped about the room. Cape Jasmines were used for boutonnieres.

A large shoe store opened on Broadway Saturday. The store was decorated with flowers and plants furnished by J. W. North.

At a banquet given by the Jockey Club, the floral display was furnished by the Jordan Floral Co. and was all in red.

J. C. D.

Worcester, Mass.

Hyacinths, tulips, pansies and pelargoniums were scheduled for the third spring exhibition of the Horticultural Society, May 19.

The display was small owing to the fact that the tulips and hyacinths had nearly gone by. Joseph Brierly had the best cut pansies and F. P. Alexander took first on best six plants. Pelargoniums made a very small showing. S. H. Record was awarded third.

If the "powers that be" had set the date ten days earlier the display of tulips and hyacinths would probably have been very good, but they neglected to do this and consequently had a poor show.

Joseph Brierly was awarded first for tulips and second for hyacinths; no first awarded for hyacinths. In the cut flower competition H. B. Watts captured first; H. A Jones second. F. A. Blake took first for best basket; Mrs. Thos. Ward second.

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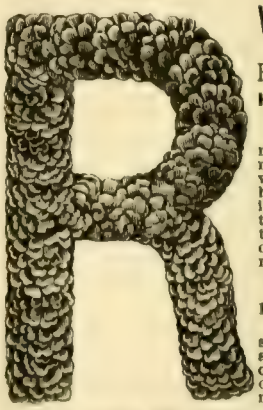
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Highest Award wherever exhibited.
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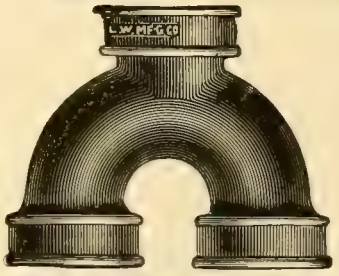
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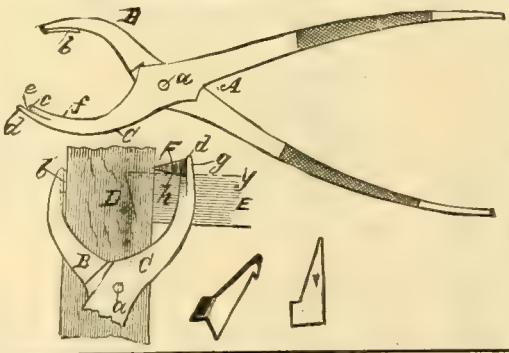
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BY AN UNKNOWN BOTHY POET.

I'm a broken-hearted gardener and don't know what to do;
My love she is inconstant and a fickle jade too;
One smile from her lips would never be forgot,
T'would refresh me like a shower from a watering pot.

CHORUS.

She's a rose, a rose, a fickle wild rose;
A damask, a cabbage, and a wild China rose.

She's my snowdrop, my auricula, my hyacinth,
My gilly-flower, my polyanthus.
My heartsease, my pink and water lily;
My buttercup, my daisy and dafla-down-dilly.
—Chorus.

We've grown up together like two apple trees,
And clung to each other like double sweet peas;
And now they're going to trim her and plant her in a pot,
And I am left to wither neglected and forgot.
—Chorus.

She's my myrtle, my geranium, my honeysuckle,
My tulip and my violet;
My hollyhock, my dahlia,
And my mignonette.—Chorus.

I'm like a humble bee that don't know where to settle,
She's a dandelion and a stinging nettle;
My heart is like a beet root choked with chickweed
My head is like a pumpkin running to seed.
—Chorus.

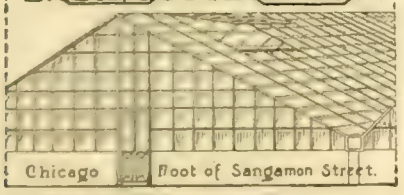
I'm like a scarlet runner that has lost his stick,
Or a cherry that is left for the dicky birds to pick;
Like a watering pot I weep, like a pavia I sigh,
Like a mushroom I wither, like a cucumber I die —Chorus.

I've a great mind to make myself a felo-de-se.
And end all my woes on the branch of a tree;
But I won't, for I know at my kicking she would roar,
And honor my death with a double encore.

CHORUS.

But Oh! Oh! Who would suppose,
I could suffer so much for a fickle wild rose.

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4 "	"	9.00	10 "	"	10 00

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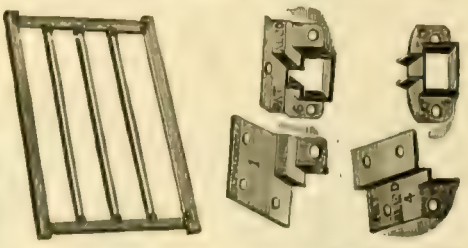
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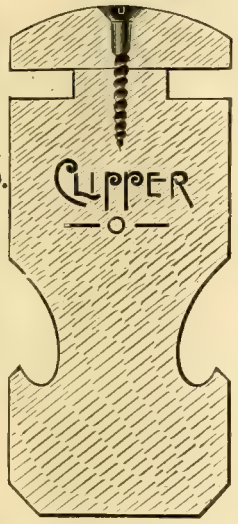
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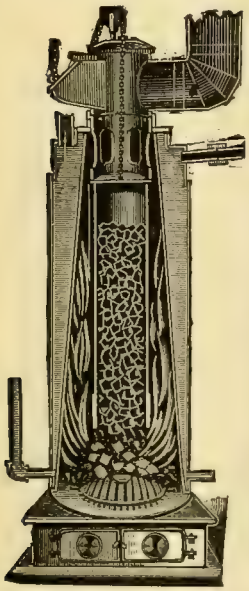
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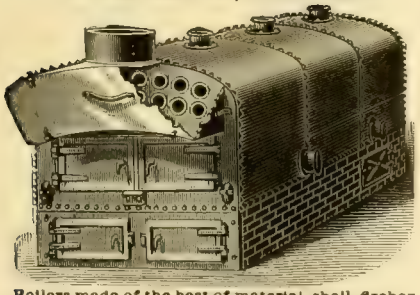
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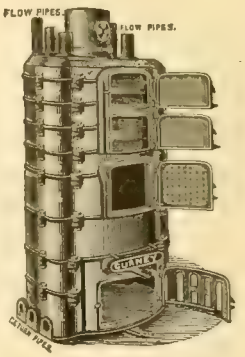
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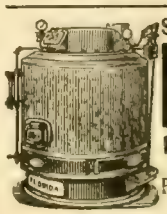


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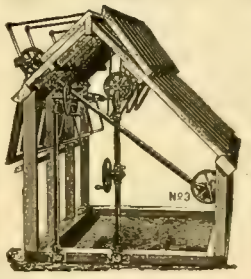
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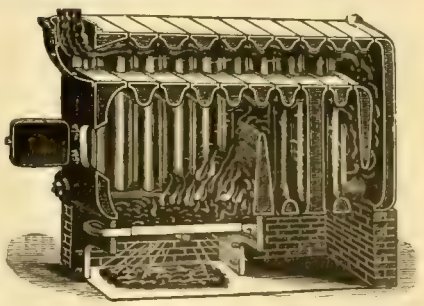


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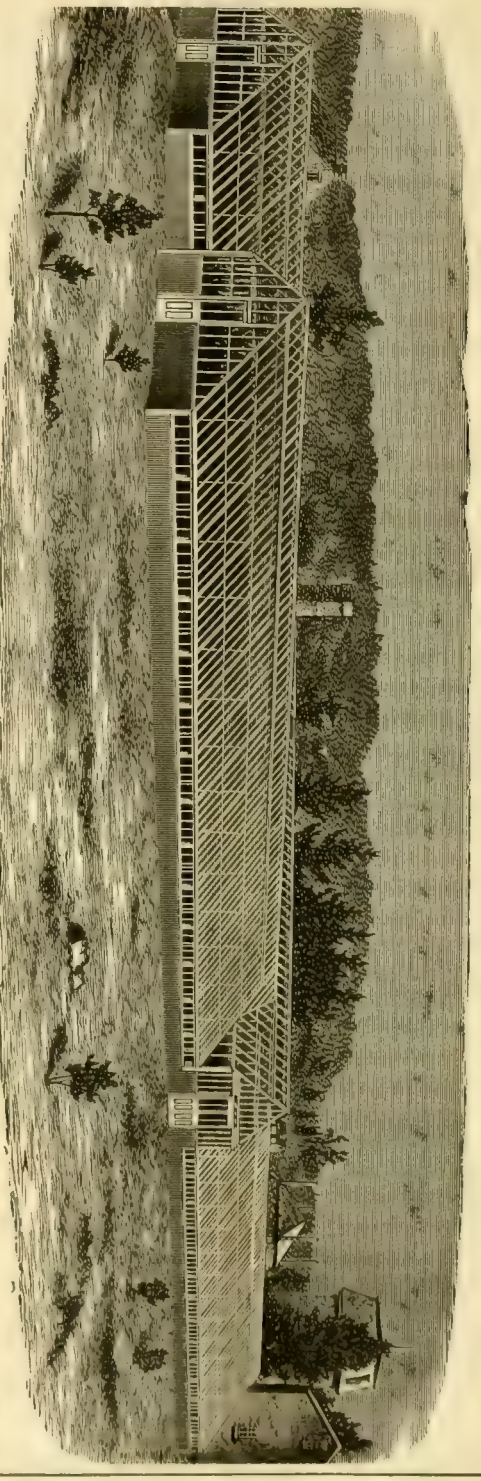
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Vol. VII. **CHICAGO AND NEW YORK, JUNE 2, 1892.** **No. 209**

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WITH THIS ISSUE we pass the thousand mark in number of pages. And there are ten numbers yet to come in this volume.

DO YOU WANT the government statistics of the Florist, Nursery and Seed trades from the last census where you can have them convenient for reference. You will find them all in our new trade directory and reference book.

THE THEORY OF DESIGN IN DECORATION

BY F. SCHUYLER MATHEWS.

III.

What is it that constitutes the leading or dominant principle of design; in a word, its key note? I think it is this, adaptability united with opportunity. That, I think, is the underlying, pervading note which, figuratively speaking, one's ear catches before the melody comes. In a flash of the eye it is the immediate recognition of a simple motive in decoration which preceeds the enjoyment of its beautiful details. In the decoration of a room we should have something simple to say, which should be clearly understood by the first person who enters it and uses his eyes. This simple message will be the outcome of some opportunity given the decorator, and his success will be measured by his ability to adapt things to this opportunity, but unfortunately it is often passed by unheeded and some tasteless, awkward creation usurps its place.

This is just what we should be warned against, and our sensible floral decorator will first enter a room and measure its possibilities before he attempts any creation. If there is a particular door, window, alcove or archway to decorate in some pronounced way he will unite every one of these accessories under some simple and well connected scheme of decoration which will result in a perfectly clear notion on the part of the observer of what he is driving at. This is the message and the message is the result of adaptability united with opportunity.

For the sake of illustration we will choose a definite occasion and a particular room which will afford us a field for work. Suppose it is a card party to be held in two connecting parlors. The opportunities will very quickly develop themselves and we can dispose of them one after the other in order. In the first place we should decide on a color tone, and in the second take into consideration the time of the year. Our "stock in trade" consists mainly of roses, carnations, tulips, lilies of the valley, stocks, coreopsis and sweet peas; far above all these in importance to me as an artist is the material yet plentiful, but wild, tree and shrub blossoms, lilacs and buttercups. I know that we are in the midst of practical difficulties as florist decorators in

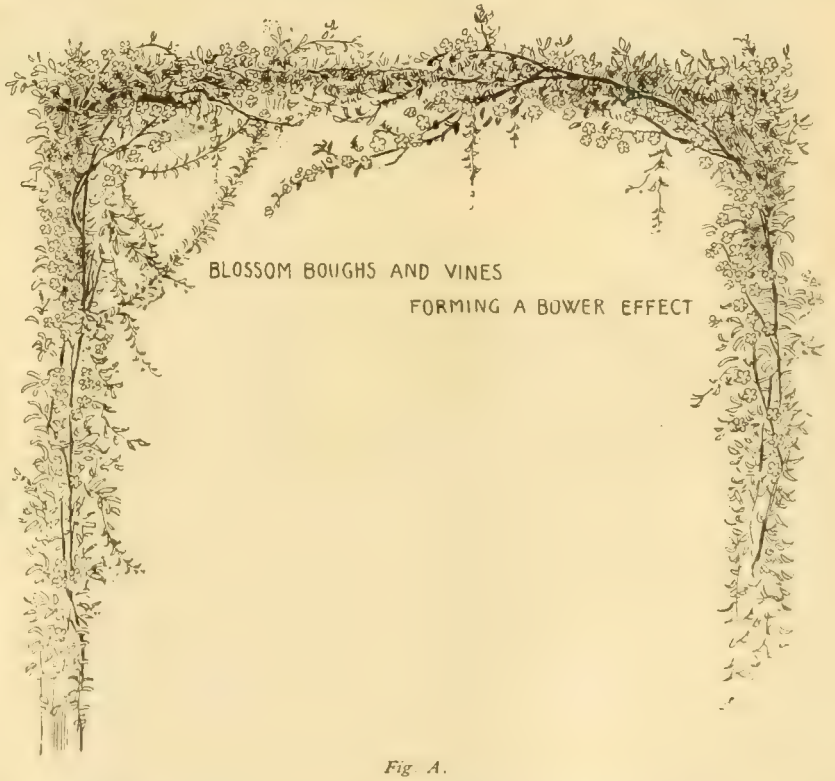


Fig A.

dealing with this wild material, but it is my purpose here to deal with difficulties, and the connection of wild flowers as well as cultivated ones with design principle, is one well worth our consideration. Supposing that our rooms shall have a dominant tone of red in their floral decorations, or pink, if circumstances so require it, or lilac if that be the initiative idea, what shall our method of work be? Shrub to look like shrub, rose bush to look like rose bush, stem flower to look like stem flower. I say this in contradistinction to another method which would be smilax to look like portiere, rose to look like wreath, and carnation to look like ribbon!

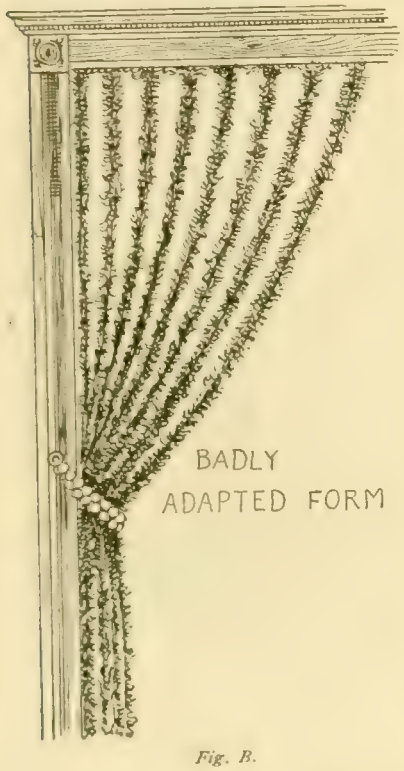


Fig. B.

If the sliding doorway between the two rooms is to be decorated, I think Fig. A will show the way nearest like nature's method. The blossoming bough is an essential element of beauty and its position is natural. The vine has just the lines which nature forms herself, and the combination of the two forms a good frame for a vista. I do not see why smilax should ever be strung and looped up into curtain shape. Nature's "portieres" never hung that way, in proof of which look at the drapery on the trees in Florida and on those in the White Mountains in N. H. Fig. B is in bad taste and has no excuse for itself. A square opening converted into a round arch by help of wire and string is far more excusable, and Fig. C is a fair illustration of lines in legitimate variance with the original architectural idea.

The florist positively needs all the help he can get from cheap, artistic pottery; an effect of Magna Charta, Jacq or Beauty roses, arranged with the aid of moss, bits of stick, wire and a clever hand, is in part dependent upon an artistic jar at the base of operations. The composition of Fig. D is one way of getting the most out of a dozen roses and a yard or so of trailing vine.

What we do not realize the value of, decoratively speaking, as our Japanese friends do, is the branch of cherry, apple or plum blossoms; the day is coming, if it is not already here, when certain varieties of these estimable members of the rose family will take their places among



Fig. C.

their super-cultivated sisters as subjects for our highest admiration.

In a previous article we have discussed the value and beauty in decorative work, of straight stemmed lilies, gracefully curved lines in festoons and masses of contrasting color and form. Now I wish to call attention to the great value of irregular and crooked lines. This brings me to a consideration of this dreaded wild material.

The Pyrus Japonica, forsythia and all apple and other fruit tree blooms ought not to be left outdoors so much. My sketch (Fig. E) shows what these irregu-



Fig. D.

lar lines are worth, and it is very plain that if we are to follow in nature's footsteps we can not discard them. A plain wall covered with a paper dull pink or light terra cotta in color, or one covered with a slaty blue color, is just the background for fruit tree blossoms. Branches may be dexterously trimmed and arranged in a free natural sweep, and the results will show that nothing of this particular artistic nature can find its substitute in cut flowers.

In springtime no room decoration can possibly be complete without the message that the fruit tree blossom carries with it. We must not forget that half the success the Japanese meet with in their use of flowers decoratively is due to a keen appreciation of the sentiment connected with them; and sentiment is an essential element of all good decorative design. If any one fully estimates the value of crooked lines certainly the Japanese does. There is hardly a screen or a fan which comes from his hands on which he has not thrown a picturesque spray of cherry or apple blossoms. It is particularly desirable in a room where the lines of walls, ceiling and furniture are severely straight that there should be some relief by contrast, in shape of rugged and rule-less lines. Hardly a drawing room exists nowadays without its black



Fig. E.

silk gold embroidered Japanese screen. In front of this is a good position for a rich cluster of pink blossoms.

Now, what has this to do with the occasion of which I have spoken—the card party? And in fact what influence can a card party have on our subject, "The theory of design?" Much. I have already said we must watch for our opportunities. Here is one. There will be at least six or eight tables in the room to be decorated with a jar of flowers; at each one there is a separate opportunity of working out a perfect ideal design. There may be six or eight flower colors, each of which may easily carry out a spring-time impression, or supposing the tables be all confined to one color tone, think how many varieties of flowers will give that single color tone variety of form. It is all a question of adaptability, and from the jar of hydrangea to the spray of apple blossom it is simply a matter of finding the right place for the right thing. Adaptability united with opportunity.

Nobody can justly say *this* only is right and everything else is wrong. We must feel our way step by step, we will know when our foot is planted solidly on a stone and when it falls plump in the mire. There is no theory of design which is infallible and absolute; one can only say these are the best *ways* toward the good, you must find out what *is* good for yourself.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.



JAPANESE GARDENING. PLATE I.

A Trip to Japan.

During the next few months we propose to take our readers on a trip through Japan and show them numerous examples of its curious and beautiful gardens, and the Japanese plants that we grow, as they appear at home in the Mikado's domain.

To this end we are having prepared a series of engravings from native photographs which where kindly obtained for us at our request by Messrs. H. H. Berger & Co., of San Francisco.

We present in this issue the first of the series.

Filling Vases.

The class of plants to be used in this operation largely depends on the position the vase is to occupy, whether in the shade or to be exposed to the full sunshine, or even placed on an elevation where the plants receive the full force of the wind, it being only natural that disappointment should follow where tender foliaged plants are exposed to such disadvantages. And in this connection it may be remembered that as the suggestion and purchase of a garden vase is frequently made by the dealer who afterward takes charge of the filling, it is to his interest to see that a suitable article in which to grow plants is secured. Terra cotta vases are usually the most satisfactory, providing they are of such shape as to contain sufficient soil for the purpose, and metallic vases in general should be avoided, even though they may be of more elegant form than those of terra cotta, from the fact that in hot dry weather they are liable to bake soil, plants and all unless continually watched with a water pot.

Of course provision will be made for drainage when filling a vase and a light, rich soil will produce the best results, and the plants are necessarily put in thickly from the fact that most customers desire an immediate result and consequently will not wait for the bare spaces to fill up.

In exposed positions there are few center plants better than Dracæna indivisa, its tough foliage withstanding almost any amount of hard usage, or a variegated phormium may be similarly used, P. Cookii var. being probably the best for this purpose, being of more bushy habit than most other varieties of New Zealand Flax and having very distinctly striped leaves.

The aspidistras of course will not be forgotten, their toughness being almost proverbial, while Anthericum variegatum is another useful subject with striped foliage.

Pandanus Veitchii also makes a good center plant, but like any other warm house plant that is used for outdoor decoration in summer should be hardened off to a certain extent before being thus exposed, else the foliage may suffer a little at first.

Among the palms suitable for this purpose Latania Borbonica is hardiest (with the possible exception of Chamærops excelsa, but the latter is so slow of growth when in a small state that it is but little used) and seldom fails to give satisfaction.

Areca lutescens and the kentias may also be used with good effect in less exposed locations, as may Seaforthia elegans and Ptychosperma Alexandræ, but both of the latter are likely to become ragged if they receive the full force of the wind.

Ficus elastica and crotons of various sizes are also admirable stock for the purpose in view, as are also Begonia metallica and some of the strong growing Rex varieties.

Some caladiums from 3 or 4-inch pots may be used to advantage in a vase that is to be placed in a sheltered position, and Aralia Veitchii possesses much more stamina under such conditions than it is often credited with, and its elegant foliage is a welcome addition to such an arrangement.

Cyperus alternifolius and its variegated form are both in the useful list, the latter being a less rampant grower than the type and is consequently better adapted for small vases.

Curculigo recurvata is a graceful plant for our purpose, but does not enjoy strong sunshine and in favorable locations Dracæna terminalis may be used to give a little more color to the arrangement.

A selection of creepers are needed to finish off the outside row and to give a

careless effect, both foliage and flowering vines finding a place, variegated vinca, nasturtiums, Nierembergia gracilis, lobelias, Cissus discolor and many others readily suggesting themselves for such use.

In flowering stuff there is no difficulty in finding enough to brighten up a vase, and in some cases plants of this character may be the most desirable, but where the circumstances will admit of their use a proper proportion of foliage plants usually gives more satisfaction than a vase of flowers only. W. H. TAPLIN.

Jardinieres and Window-boxes for Summer Use.

Among the forms of summer bedding there is always a brisk trade in window-boxes and vases, and though it is easy enough to produce a good result it is not easy to make a great variation in the plants used. A good many fall into the mistake of making these receptacles look "scrappy"; they fill them with a sort of plant hash—anything handy—and the result is for all the world like one of those lots put up at the auctions as "an elegant assortment of bedding plants, one dozen varieties." A good result is often obtained by mingling several different plants, but they must look as if they grew these, instead of being thrown together without any regard for the eternal fitness of things.

Just as soon as spring is here the New Yorker has his vases and boxes filled with pansies; this is invariable, and certainly we cannot find fault with the idea. Very often daisies are used with the pansies; these cheerful little flowers stand the cold winds and changing temperature better than anything else. By the time the settled warm weather has come they can be removed to make room for something else, having passed their best condition. The vases, especially where large in size, call for some bold and tall-growing plant as centre piece, but in the boxes we require something that will not obstruct the view. Another thing to be avoided is the use of plants having such a strong perfume that it is likely to prove offensive.

Here yellow calceolarias are used very extensively in boxes, although their best bloom is over by midsummer, but by that time people are going out of town, so the flowers are of little concern. A striking arrangement noted was a box filled with calceolarias, with a border of lobelia, variegated vinca trailed over the edge.

It may be noted that when a box or vase is filled for all summer the plants should have a little room to grow or they will suffer for the lack of it, but as a rule people want them filled so tightly that you could not find room for another plant, so as to secure immediately the effect of long growth.

It is a noticeable fact that in New York hardly any vines are used in this work except ivy and variegated vinca. Undoubtedly there are other things that could be used, but these two stand heat and cold, drought and bad weather better than anything else, while being amply decorative. Nasturtiums do not seem to last so well all summer in this city as in many other places; they thrive better in localities where the nights are cool. They do admirably in seaside places, or else farther north. The writer was much impressed by the luxuriant growth of nasturtiums in Chicago; they seem to keep a mass of bloom right up to frost. Where they do well they are admirably suited to vase or basket use; some pretty window-boxes recently seen were dwarf maguerites bordered by flame-colored nasturtiums. The double yellow marguerites are also useful in this way.

It was rather a surprise this spring to see our old friend the lantana used in quantity; it has been so little grown of late years. There is no doubt of its usefulness; it blooms continuously all summer long, especially when exposed to the sun, and its neat trusses of bloom range through so many tints, white, yellow, flame-color, mauve and lilac. Its one drawback is the disagreeable odor, but that is not specially offensive unless brought into a room.

Heliotrope and ivy-leaved geranium makes a desirable filling for a box, and we often see an attractive show made with nothing more ambitious than zonal geraniums, with a border of alyssum or thunbergia. A very pretty trailing border plant is the old fashioned nierembergia, with its abundance of little lavender flowers. It is a good thing to use in vases or baskets too, and is not common, though it is so easy to grow and propagate. Another handsome trailing plant for similar uses is Abutilon mesopotamicum. The variegated leaves are very handsome, and the odd little red and yellow flowers attractive, but it is rather a slow grower.

For either box or vase in a dark corner, where there is little or no sun, we find few flowering plants of any use; their place may be taken by aspidistras, begonias, caladiums and anthericum. This handsome foliage takes the place of flowers very well. Small dracænas, too, may be used, or Pandanus Veitchii. The variegated aspidistra is extremely useful in this work; it may be used in halls or stairways, and flourishes in spite of any adverse circumstances.

In filling vases we see palms or pandanus very much used for the centre; the variegated New Zealand flax is another good thing for the purpose. In fact, this plant (Phormium tenax variegata) will be found extremely useful where any bold effect is designed in bedding, and it never seems a common thing. Caladium esculentum is another good centre, or again, dwarf cannas might be used. The remainder of the filling is usually extremely miscellaneous; in fact, there is often a tendency to put in samples of everything that will grow there, and though this might be carried to excess it is certainly better than a cut-and-dried formality. A very pretty vase noted had for its centre a variegated aucuba; around it was a mass of yellow calceolarias, while the border was variegated vinca. Fuchsias, pink geraniums and dwarf white ageratum, with a central dracæna and ivy border made another pretty combination. Blue ageratums are also used, but if combined with other bright colored flowers the effect is rather violent.

The dwarf scarlet salvia makes a good thing both for boxes and vases, and we see a great many petunias used; nearly all free growing bedding plants are used, in fact.

Quite an attractive arrangement was formed in a vase with double petunias surrounding a variegated abutilon, and an edging of lophospermum; the last named is one of the very useful vines for any summer work. The little Kenilworth ivy is satisfactory too where it does not receive too much sun. Gaillardia, calliopsis and calendula will make a fine show in these positions.

So many plants from a warm greenhouse will make a show outside during the summer that our choice is very large for all sorts of bedding, though naturally more expensive plants can not be used freely in a general bedding trade. The crotons make good vase plants, just as they make a show in sub-tropical bedding. A central croton, with a border of begonia and vinca, made a handsome vase.

So far we have not had the opportunity of seeing any of the tuberous begonias used in this way, but there seems no real reason why they should not do well and give us another popular variation in the garden.

For planting large tubs to stand about the lawn few things excel cannas, both the dwarf and the older sorts. Another popular decoration, calling for the same stuff as the vases, is the use of veranda boxes, either standing on a balustrade or on the floor; they are extremely popular and may be varied according to the season, from spring bulbs to chrysanthemums. EMILY LOUISE TAPLIN.

Boston.

Decoration Day finds the market in an unaccustomed condition. Usually lilacs, tulips, Narcissus poeticus and lily of the valley have had their day and are about past, and rhododendrons, azaleas and snowballs have been just in their prime. This year the rhododendrons and snowballs are still in the green bud and the outdoor valley and narcissuses are in perfection. The indications have been unfavorable for good or sufficient stock for Decoration Day. But the gloomy, rainy weather which has prevailed for two weeks gave way to a warm sunny spell in the latter part of the week and there was stock enough to go round, such as it was.

Roses were of poor quality. To find them without mildew was not an easy matter. Carnations held scarce and high. Astilbe is always a first class selling article at Decoration Day and this year was no exception to the rule. But there was very little of it to be had. There was considerable call for callas, but there were very few of them obtainable. In fact, white flowers were generally in demand all round. There were a few gardenias from the south, but the quality was poor. Hardy ferns which play such an important part in cheap work such as most of the Decoration Day demand calls for, are very late here and the south has been drawn on heavily for this staple, as last season's storing has all been used up. The demand for designs of low price, such as wreaths, crosses and other simple forms has noticeably increased, while the call for cheap bouquets has decreased somewhat. The florists' windows are decorated with large numbers of designs more or less elaborate, made from milk weed balls, immortelles and artificial flowers. They are quite pretty and serve their purpose in attracting a crowd of admirers. They are also desirable as relieving the busy dealers of the work of renewing their window display as is necessary when fresh flowers are used. Still it is hard to resist the conviction that the cloth artificial flowers are most decidedly out of place in a florist's window.

The plant auctions are supposed to reach their height in Decoration Day week and prices usually run high at that period. This week, however, the usual rush has not materialized and prices have been only moderate.

John Streiferd is sending some fancy pelargoniums to Hatch which are equal to the best exhibition plants ever seen here. They are superb varieties and well grown.

The rhododendrons at Mr. Hunnewell's are in splendid form this spring. Mr. Harris is making preparations for a grand



JAPANESE GARDENING. PLATE II.

show under the big tent. The Indian azaleas in the azalea tent are just in their prime and are the attraction for large numbers of visitors. The display is not as effective, however, as it will be when the large groups of mollis and Ghents which surround the tent have come into flower. Both the rhododendrons and hardy azaleas are fully one week behind time in blooming.

Extensive improvements have been made in the Italian Garden since last season. Many of the trees have been replanted and an ornamental granite wall adorned with handsome Yew trees has been run along the crest of the hill, thus forming an appropriate dividing line between the formal gardening and the lawn.

The collection of show plants in the conservatory is most brilliant at present. The orchids are especially fine. There are quantities of Cattleyas Mossiæ and Mendelli and Dendrobium Wardianum in bloom and enough in bud to keep up a continuous succession for the next two months. Odontoglossum Alexandræ and vexillarium will also be fine in a short time.

David Allan was the first grower of Blanche Ferry sweet peas in this country. Referring to remarks of a correspondent in the May 19 number of the AMERICAN FLORIST, regarding the mixture of an undesirable striped variety with the seed of Blanche Ferry, Mr. Allan says that the objectionable color is merely the result of overfeeding. He finds that the bone manure has been particularly liable to produce it, and says that if this fertilizer is avoided and the peas grown in soil that is not over rich the color will come all right.

Visiting Boston: Mr. W. H. Rand, representing Wm. Elliott & Sons, of New York.

The annual rhododendron show will open at Horticultural Hall at noon on Friday June 11 and close at 9 p. m. on Saturday. This is one of the most attractive of the exhibitions and always draws a large crowd of visitors. The silver cup offered by Mr. F. B. Hayes is for 50 trusses of not less than 12 hardy varieties of rhododendrons, instead of for 50 trusses of not less than 25 varieties as originally stated.

New York.

There is no special rush on account of Decoration Day here. The holiday coming on Monday is somewhat oppressive as regards the Madison and Summit florists, for Sunday is the big day and they have no convenient means of reaching the city with their stock on that day. So the Long Island and other growers get the best of them this year. The advance on prices of flowers is scarcely noticeable here. Roses are coming in in great abundance, the quality averaging fair to middling. Jacqs are not very plenty and hybrids are about finished. La France comes good and abundant. Beauties are plenty, especially the short stemmed ones. Carnations are in full supply. Outdoor valley is coming in heaps. Pæonies, deutzia and other outdoor stock which is usually in demand and hard to get for Decoration Day are very plenty this year on account of the very backward season.

By the time the June weddings are over the flower business will be over for the season, practically speaking. There is still a great deal of steamer work done. Hanft Bros. have some very attractive baskets in the form of steamers and full rigged ships for this use; they are white and gold, some mounted on a plain base and others elevated on a flat basket.

W. H. Brower has had some very good cornflowers at his store lately; they have had such a run with the milliners this season that they ought to take equally well in the natural form.

Gladiolus is getting more plentiful.

Some of the late May weddings—there were but few—were noticeable for the extensive use of dogwood flowers in the decorations. The effect was fine with a palm background. Another charming effect was produced in a church by the use of hawthorn and apple blossoms, with a palm background.

Some pretty dinner decorations were recently formed of roses, a large central basket being used while smaller baskets were placed in the front of each cover.

The porcelain and metallic funeral wreaths are specially called for around Decoration Day. Of course they never can be compared with natural flowers, but they are greatly improved of late years, and undoubtedly have their uses where real flowers would be impossible. Some of the porcelain flowers shown by

importers in this city are beautiful, but they are necessarily expensive. For cheaper trade immortelles and cape flowers are largely in demand, and in the hands of an expert they assume really handsome effects. Probably Le Moult has the largest trade in the city in this line, and it would be hard to mention an emblematic design which he could not supply.

Cape flowers are scarce. Reports from Europe indicate that none can be obtained in good quality until the next crop is ready. Reports from France are that the immortelle crop is slightly affected by frosts, but not to a serious extent.

Among good things noted at Elliott's auctions were the dwarf phlox sent in by A. C. Schroeter of Bayonne. Their compact habit does away with the stalkiness often seen in phlox, and they are a mass of bloom. A very useful thing; the pure white is particularly good.

Visiting New York: Miss J. Reiser of Buffalo, formerly in charge of Mr. D. B. Long's flower counter.

Baltimore.

Notwithstanding the press of work, there were twenty-one members present at the club, and they enjoyed one of the most interesting meetings we have had. Interesting, not so much from the importance of the matters discussed, as from the fact that everyone, even our worthy chairman, took part in the debates and expressed whatever views were held freely. One full member and seven associate or passive members were elected.

After hearing reports of the committee on fall shows and others, Mr. Feast started quite a lively discussion by offering $25 towards a premium of $200 to be given for the best table decoration at the show. Mr. Grebb almost immediately added $25 and then the speakers to the question rose one after the other and rose again until the whole matter was thoroughly examined from all sides. It was finally decided not to restrict the decorations to chrysanthemums, but leave the manner and material entirely to competitors, to make the nest egg of the subscriptions $50 from the treasury of the club, and to start a similar fund with the same amount as a premium for best mantel decoration. As a means of getting down to terra firma again after all this lofty work Mr. E. A. Seidewitz offered a premium of $5 for "the biggest plant of chrysanthemum grown in the smallest pot."

The only flower on exhibition was a tuberous begonia bloom of fine substance and color, 4x5 inches, brought by Mr. J. C. Berl. The first question taken from the question box was "What is the best material for benches?" and the answers were numerous. Slate, cypress, pine washed with crude petroleum, washed with whitewash, and with cement, all had somebody who believed in them.

The next question "What is the most profitable rose for forcing?" was answered "Perle", and for once nobody seemed to object. But there was some discussion on the following: "What is the best carnation for forcing?" as Hinze's White and Lizzie McGowan were both named.

Towards the close of the week business took quite an upward turn. Lily of the valley is not in the market at all, but its place is well supplied with Nymphæa odorata and a plenty of carnations. The amount of outdoor stuff, snowball, deutzia, weigelia and the like that is sold in the markets is something amazing, every market basket seeming to have its bunch of flowers topping the meats and vegetables. All the roses at the Exchange have been bought up clean, and barrels of snowball (Viburnum plicatum) besides, every day this week. Prices still are low though, and will probably remain so, at least until the June roses are done. Instead of columns of parties and receptions society papers have columns of seaside and mountain addresses of "le bon ton", and society florists are settling down to the dull season. MACK.

Washington.

The attendance at the regular meeting of the Florists' Club May 18 was not large, but included the most active members of the club.

An excursion to River View on the Potomac was mapped out and a committee appointed to carry it into execution, probably about June 15, that being the date thought most desirable.

The next subject of interest taken up was the chrysanthemum show. The various details of preparation were discussed, committees on securing a hall, on special premiums and on schedule were appointed, but the appointment of a regular executive committee was deferred for the present. From the remarks made by several members there is no doubt the schedule will be considerably revised from that of last year, experience showing us where it can very profitably be done.

The receipt of courtesies from the AMERICAN FLORIST and from the *Florists' Exchange* were directed to be acknowledged, and the meeting adjourned with understanding that probably a special meeting will be called soon to further consider the business now in hand. C.

According to Congressman Amos J. Cummings, of New York, the rarest plant in the Botanic Garden at Washington is a genuine corncracker that was sent there to Sup't W. R. Smith by Old Crow from his farm in Woodford county, Kentucky, in 1872. This aromatic American gem is the only one of its kind now known to exist, and it can not be propagated. Mr. Smith guards it so jealously that it has never been exposed to public view and visitors know nothing of it. But we have an idea that it may be one of the curios in store for us next August. In May, 1860, a larger specimen of the same variety was discovered by Old Crow and sent to Washington to Senator Crittenden, who also turned it over to Mr. Smith. But it died within a week or two after its arrival from over exposure, and was very deeply regretted by the honorable members from Kentucky who displayed the utmost interest in its existence and declared while it lived they smelt its subtle essence at the Capitol.

Government gardeners from the large propagating gardens under the War Department have begun to set out the 200 beds in the various parks of Washington. This work, which has been for 30 years in charge of Mr. George Brown, has long been famous for the beauty and novelty of effects attained. Especial care has been given to the preparations for this season's planting, because of the Grand Army encampment next fall. A large number of patriotic and military designs have been devised during the winter by Mr. Brown and his son. There has been some restraint upon the work because of the insufficiency of the last year's appropriation.

In the level lawn south of the pension building, which is 400 feet long from east to west, Mr. Brown will plant about 40 beds, 29 of which will be representations of the various army corps badges. One, the largest of them all, will be a Grand Army badge, with its flag and pendent star, crossed cannon and muskets, all worked out carefully in plants. This bed will be 60 feet long and 15 wide. Many of the beds will require very nice modeling. The ground will be raised and compacted to show special designs above the field of the badge.

The question of color is a difficult one. There are practically but two blue plants available for the work. These are the lobelia and ageratum. In the more northerly climates these two flowers can be used to good effect for quite a period of time. But here they would quickly bloom and go out of blossom, utterly spoiling the design in which they might play an important part.

The Washington florists are bowling every Tuesday evening at Russell's, on E street. Mr. J. R. Freeman is captain of the club, and the attendance at these games is generally very good. The championship games on the occasion of the visit of the S. A. F. next August will be played at Marshall Hall, on the Potomac river, during an excursion to that resort. During the playing of the last six months the best record has been held by Mr. Charles A. Small.

For Decoration Day an increasing demand for elaborate set designs was noticeable. A design displayed in the window of the Gude Bros., was a floral model of a full rigged man-of-war. It was ten feet in length and all the details were carefully worked out in immortelles. The hull was white with red keel; the ironwork blue and the deck lemon yellow. The masts and spars were olive and the ropes and tackle of white chenille. The capstan, steering wheel, anchors and port holes were red and gold. From the masts floated the admiral's pennant and silken stars and stripes. The design rested on a base of adiantum ferns. On each side of the hull appeared in blue letters "Potomac Association of Naval Veterans. Tribute to our shipmate." It was placed on Admiral Porter's grave at Arlington, May 30.

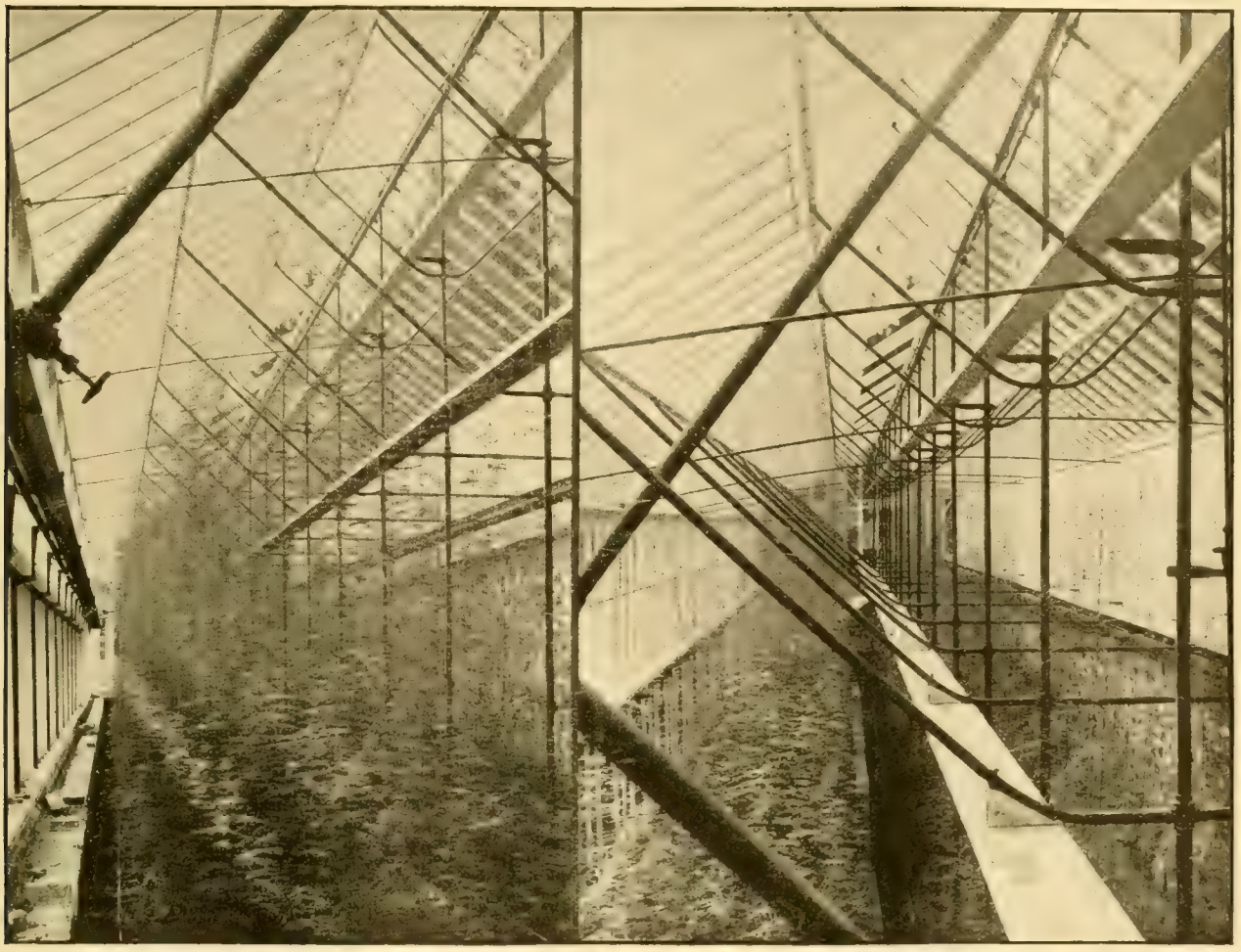
Philadelphia.

Robert Craig returned from Chicago last Thursday very much pleased with his trip.

Prices of flowers hold up very well when the small amount of business is considered. Saturday was about the only busy time of the week, quite a lot of work being furnished for Decoration Day. Most of the trade seem to have a lot to do for this occasion. Habermehl Bros. made quite a number of immortelle designs to be given to Grand Army posts; these were placed in the windows of some of the large stores on Chestnut and Eighth Sts. for a few days and attracted considerable attention.

Wm. J. Baker, one of our Simon-pure commission men (and we believe this city can boast of but one other), is nicely fixed in his new quarters 1432 S. Penn Square. He is at present wrestling with the refrigerator problem, and hopes to solve it before the weather gets much warmer. Carnations are his specialty and he handles a great many of them in their season.

John Westcott has broken a record on the club alleys, having made in three consecutive games 579 pins. The record 572 has been held by Lincoln Brown for about six months. K.



VIEW FROM BELOW — LOOKING DOWN FROM THE "GALLERY."

MR. ELLIOTT'S 25 FT. HIGH HOUSE OF ASPARAGUS PLUMOSUS.

House of Asparagus Plumosus.

We present herewith two views of one of the asparagus houses of Mr. W. H. Elliott, Brighton, Mass. This house is 100 feet long, 18 feet wide, 25 feet high, and will grow about 3,500 strings to a crop.

The views were taken when the strings were only half grown so as to show the construction of the house which was planned with the idea of getting extra long strings and also to have walks reach all parts of the strings so they can be trained and cut. Some doubt was expressed when the house was built as to whether the strings would reach the top, as it is Asparagus plumosus nanus that is grown which is supposed to be dwarf, but does not prove so in this case as nearly all the strings have reached the top.

Mr. E. is constructing two larger houses which will give him five houses devoted to this vine.

Chicago.

At the last meeting of the Florist Club a committee of three was appointed to arrange for transportation to the Washington Convention of the S. A. F. next August and the committee was instructed to endeavor to work up as large a delegation as possible and thus strengthen the chances of getting specially low rates and extra accommodations from the railroad people. It is hoped that a sufficient number will go that a special car or cars may be had, and if those in the west and northwest will arrange to travel with the Chicago party from this point it may be possible to arrange for a special train. All those intending to travel to Washington from or via Chicago and who wish to go with the main party are requested to notify the chairman of the Committee, Mr. G. L. Grant, 322 Dearborn street, Chicago.

The question of a bowling team to represent Chicago at the Washington tournament was brought up and after some discussion Mr. P. J. Hauswirth was elected captain and requested to select a team and get the members of same into training.

At the adjourned session some little training was done, but as he sized up the scores Captain Hauswirth was heard to emit a large and commodious sigh that indicated a realization of the monumental task before him. But there was not much strong timber present and he will make an effort to call out more promising stock on future occasions. Rumors are rife regarding some suburban members who rarely come to the meetings that are death on the pins, and day meetings will be arranged for so that these giants may be able to attend, and instill into the others enthusiasm and sprained backs.

Among recent visitors were Mr. W. A. Stiles, editor of *Garden and Forest*, and Mr. A. Hulsebosch, New York.

Montreal.

At the last meeting of the club here the most interesting part was the receiving of the prize money won at the spring show, and as every one got 100 cents on the dollar (which they did not expect) everything was "lovely" to the winners. Our system of awarding by points worked like a charm, the money being awarded by the same points and the first prize being restricted to 30% of the gross sum allotted for the section.

The flower trade has been quiet lately and owing to the cold late spring plants have only just commenced to move. The season is about two weeks late here.

Our ex-secretary, Walter Wilshire, has been seriously ill and is not yet out of danger, abcess in the head being the cause. Walt has had a tough time of it this winter and so has Alfred as he has had double work to do. The number of their store is 660 Sherbrooke street now instead of 688. Another new number is 230 St. Denis street (Montreal Floral Nurseries) instead of 128 as before. J. Bennett has moved across the street, his number now being 2392 St. Catharine street. H. A. Bunyard called here on his way back from the east and reports fair business.

The latest "fish" story here is that a party of four (Churchwood, Stanford and a couple of more) went out on the 24th inst. in a boat with rods and line, minnows, etc., for a day's fishing. Father St. Lawrence was not in a very gentle

mood it seems, for reports say that the "spray" had a most curious effect on some of the party, one wanting to get into the water and hook the fish on, another throwing the fish into the water after they were hooked, and having a time generally. It ended by the whole lot nearly getting along with the fishes. However, all got ashore safely, none the worse with the exception of being wet through and through. J. B.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

J. C. VAN LINDLEY, Pomona, N. C., president; W. J. PETERS, Troy, O., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A. WHITNEY Franklin Grove, Ill., treasurer. The seventeenth annual meeting at Atlanta, Ga., June 1 to 3, 892.

Trees and Shrubs in Bloom on Long Island, May 27.

The weather has been cool for some time back and we have had a good deal of rain, and a week ago a violent storm that tore and battered the young leaves of the trees very severely. Still everything looks unusually clean and fresh and the trees are growing vigorously, even such laggards as yellow and honey locusts, catalpas and glyptostrobus are venturing to come out. Orchard tree blossoms are about past, but quinces are only in perfection. The flush of early flowers is on the wane; it is lilac and wistaria week, and next Sunday will be "Chestnut Sunday" with us. Many magnolias are in, out and coming into bloom, and so on.

THE AMERICAN CRAB APPLE (Pyrus coronaria) is not a very taking name of what is now the most beautiful little tree in our grounds and in the pink of perfection. Its blossoms are large, rose pink, in loose cymes and quite fragant, and come into full bloom when the Japanese floribunda and Chinese spectabilis pyruses are about past. This is a tree that highly deserves planters' recognition.

HORSE CHESTNUTS.—The common white flowering one is in full bloom, so too is the red, but the double flowered varieties, although in flower, are later than the single ones, and they last longer. The dwarf species won't be in bloom for some weeks.

FLOWERING DOGWOOD.—Cornus florida has been in fine bloom for a week or more. Some of the other cornuses, alba, for instance, are also in bloom, but they are hardly worth growing for their blossoms; some are valuable on account of their red barked wood, and others because of their handsomely variegated foliage.

DEUTZIA GRACILIS is just beginning to open. Won't that be joyful for Decoration Day! But it is a strange fact that outdoor grown deutzia flowers do not last as well when cut as do those from forced plants in March or April. Deutzia parviflora in upright habit and umbels of white blossoms along its branches resembles a spiræa, it opens at the same time as D. gracilis and is a real worthy shrub.

NEVINSIA ALABAMENSIS is in its best bloom. Its flowers consist of bundles of feathery white stamens and are clustered into wreaths along the branches of last year's growth. Although not now rare in gardens, in a wild state it is found only in one locality, Tuscaloosa, Alabama. It is quite hardy here, however, grows 5 to 7 feet high and has upright, arching shoots, now clothed with fleecy wreaths.

BIRD CHERRIES.—Prunus Maackii is out of bloom some time, P. Padus, the European bird cherry, is nearly over, P. demissa is opening, and P. serotina, our common wild bird cherry, has not yet come to its flowering state. But the lesser Prunus Virginiana, our wild choke cherry, is at its best and quite pretty in its way. Another shrub also called choke cherry, namely, Pyrus arbutifolia var. erythrocarpa, plentiful wild and pretty in cultivation, is in full bloom or fading.

THE MOUNTAIN ASH in variety, upright and weeping, is in its hey day, and although its horticultural value depends chiefly upon its ornamental red fruit in late summer and fall (remember them in the streets and gardens of Toronto last August?) as flowering trees in early summer these trees also have decided merit. But on Long Island, how the borers love them!

SNOWDROP TREES (Halesia).—H. tetraptera was in splendid form a week ago and is fairly good yet. Well shaped tree-formed plants are handsome objects, but the scrawly scrub trees of it we often find choked in shrubberies are sorry representatives of shapely specimens. H. Meehani also is in full bloom. H. diptera is hardly open yet. The flowers of Meehani somewhat resemble those of tetraptera and are more numerous but hardly as pure white or pretty; its leaves approach those of diptera. None of the Halesia hispida section is yet in bloom.

CORONILLA EMERUS, in English Scorpion senna, is a dense, branchy little bush 3 to 4 feet high and more across, and just now completely smothered in little yellow pea flowers, making it a very striking and beautiful plant, and a fine thing in the front line in shrubberies. It is indigenous to Southern Europe and quite common there in cultivation; and many of our importers here when they get a mixed collection of shrubs from France are most sure to get this plant because it is very cheap over there. But being such a little thing in its infancy and a trifle tender it is apt to die down a little, get neglected and lost. If one takes care of it for two or three years, however, it waxes strong and becomes perfectly hardy at New York.

WEIGELIAS.—Some of the rosea are in full bloom, but many of the varieties have not yet opened a bud. By the way, they got pretty badly injured last winter. These Chinese and Japanese plants and their varieties are very showy garden plants, but when it comes to the American species, say trifida, except for variety's sake what claim as an ornamental plant has it got upon us?

THE TARTARIAN BUSH HONEYSUCKLES and like species are in full bloom. They are easily grown, exceedingly floriferous, hardy shrubs, with a double beauty of showy ripe fruit in midsummer. Splendens is about the finest in flower and Ruprechtiana and Morrowii in fruit. A good deal of fuss has been made of the Californian Lonicera involucrata (Ledebourii), but, really, I fail to find much merit in it as an ornamental plant.

CHIONANTHUS RETUSUS is the Chinese fringe shrub, the prototype of our American fringe tree, C. Virginica. Its flowers are white, not unlike those of the American species, and now in full bloom—long before the flowering time of its western relative. But the whole plant is small, meagre perhaps, and although a pretty little shrub it can never rival the American white fringe tree in favor, fullness or beauty.

THE FLOWERING ASH (Fraxinus Ornus) is coloring white and scenting the air for some rods around. It is a little broad-headed tree, studded all over with large showy bunches of white, fleecy flowers. The Himalayan species, if distinct species it is, F. floribunda, also is in bloom. Its leaves may be long and leaflets narrower than those of Ornus, but otherwise to the general observer they are much alike.

TAMARIX AFRICANA is the name of the species now in bloom, no matter how many other names you may find it sailing under in catalogues. Its long fleecy pink wands are both striking and beautiful; in a couple of days they will be at their best. As soon as the blossoms begin to fade we cut back the shoots as we do those of forsythias or fragrant bush honeysuckle to keep the plants in good form and insure a crop of fine shoots for next spring's work.

HAWTHORNS are in fine bloom. The single flowered varieties are at their best, and delightfully fragrant; the double flowered forms are barely in their prime. The double varieties although exceedingly beautiful are scentless, and in this way as dissapointing as the single sorts are gratifying. Our native Cratægus coccineus and its varieties are pretty well past. Where they thrive they are beautiful in bloom and handsome in fruit. The cock's spur thorn comes later. Under the name of C. grandiflora we had from Spath, of Berlin, some years ago a very handsome little tree both in leaf and bloom. Its flowers are white, 1⅜ to 1½ inches across, singly or sometimes two together, and slightly fragrant.

XANTHOCERAS SORBIFOLIA, a tree-like shrub 5 to 7 feet high from northern China is now in fine bloom. The flowers are white stained with red at base, and borne in 4 to 8 inches long upright racemes, and these racemes in great numbers and bunched together near the ends of the branches. As a shrub it is a beauty; but the flowers don't last long and are of no use when cut. Raised from seed which old plants produce in moderate quantity.

CHINESE WISTARIAS, blue, and white, are in the hey day of their loveliness or a little past their best. We have several large tree-stemmed plants with broad umbrella-like heads which are very pretty. What we call W. japonica (determined for us by Thomas Hogg who examined it here) has begun to bloom. It has blue flowers on long pendent racemes and which open several days later than those of Chinensis; the vines are also closer growing and much more leafy. The Japanese wistarias, however, may be all right on paper but there is an ugly confusion among them in the garden.

LILACS are now in great perfection. In olden times we had little more than the common lilac and its white variety and the Persian lilac and its white form, but nowadays we have a hundred or more fixed varieties, single and double flowered, and several fine species. We have many bluish purple varieties among the newer ones, but it is not an agreeable hue. Marie Legraye is the finest white lilac I ever saw, and Souvenir de L. Spath the darkest red and best of the dark ones. Both are in splendid bloom with us now. I wonder if this last named variety is the same as Ludwig Spæth of some catalogues? Frau Dammann and alba grandiflora, both now in bloom, are splendid white lilacs. Charles X, a dark variety much grown for forcing, makes a capital garden plant, but I can not say that I

appreciate what we have for rubra de Marley as highly. Rubra grandiflora is a fine red with large flowers, and Rubella fl. pl. about as good as any of the large flowered double ones. The double flowered hyacinthiflora is on the wane, very distinct and would be an acquisition had it some more pleasant color than bluish lilac. Lemoinei fl. pl. with larger trusses and florets is a bolder and handsomer flower with just as poor a color. The "scarlet" Siberian (Rothomagensis rubra, or maybe to be more exact I should say Chinensis, var. rubra) is the prettiest of our Persian lilacs. Syringa pubescens, a species from northern China, is just now the most beautiful and grateful lilac in our collection. It forms a medium sized round bush and is completely covered with short panicles of narrow tubular rosy lilac, deliciously fragrant blossoms.

PAULOWNIA IMPERIALIS is in full bloom. The flowers are violet blue, large like those of a foxglove or gloxinia, in open terminal panicles and precede the enormous foliage of this Japanese tree. Among our hardy trees we have no other blossoms like unto these, still their color is so unobtrusive that one has to get near the trees to see them, they have no mark in the landscape as those of a horse chestnut or dogwood has.

VIBURNUMS.—V. Lantana and its variety rugosum and lantanoides are pretty well past. V. prunifolium, common every where by the roadside, is in splendid form and makes one of the showiest garden plants of its season, its commonness is its only fault. V. phlebotrychium from Japan has hornbeam like leaves and umbels of beautiful clean white flowers that are now dropping. Just now another Japanese species is in splendid condition, though hardly in full bloom yet. We first knew it as Japonicum, then as Japonicum latifolium, then as reticulatum, and now I believe we have got to call it Sieboldii. It makes a vigorous shrub 10 or more feet high and has large, bold, plicated foliage and ample cymes of showy, white, bad smelling flowers.

SNOWBALLS.—We have three, namely, the American (Viburnum Opulus sterilis), the round leaved (V. rotundifolium) from Japan, and what is commonly called the Japanese snowball (V. plicatum), and all three are decidedly distinct from each other and desirable. V. rotundifolium is now milk white, V. Opulus greenish white, and V. plicatum whitish green, showing two or three day's time of difference between their full bloom time. Rotundifolium may pass for a brown stemmed, spreading, early form of plicatum. It is generally sold as the variegated leaved Japan snowball, but the variegation (marbling and streaking with yellow) appears only here and there on a twig or a leaf and never over all the bush. The variegated ginkgo is another similar case of irregular variegation. The partly sterile flowered species are not advanced enough to notice in this paper.

AZALEA AMŒNA is perfectly hardy with us and we make a hedge border of it around our group of deciduous azaleas. It was in perfection a week ago and is in fine condition still; hardly a leaf was to be seen or a gap anywhere on account of the profusion of glowing purplish crimson blossoms. It is perfectly hardy with us but impatient of drouth. The Ghent azaleas have begun to bloom beautifully and their flowers would be very serviceable too were it not for the bumble bees which puncture and disfigure them. Among evergreen rhododendrons only one here and there has ventured into bloom.

TWO LEUCOTHOES, namely, racemosa and Catesbæi, are in full flower; they belong to the heath or huckleberry family and have a profusion of small white bell shaped blossoms. Catesbæi is, by a good deal, the prettier plant of the two, an evergreen, and loves moist, faintly shaded ground. It is really a good thing to handle, but suggests a stout herbaceous plant more than a hard wooded shrub.

TREE PÆONIAS.—Turn up Pæonia in your dictionary and see what a lot of species there are. Now lest you get bewildered among them shut up the book and come into the garden with me. That vivid crimson beauty, single and double, with the finely cut foliage is the herbaceous tenuifolia from Siberia. That big double crimson beauty with the heavy foliage is the same my grandmother had in her garden most a century ago; it is herbaceous, a form of P. officinalis, and still the finest of its race. There are the tree pæonias proper, they come from China and Japan and are the earliest to bloom. The doubles are and have been for many years very popular. Those enormous wavy single beauties came from Hallock of Long Island and from Mrs. Berger, of California, who imported them from Japan. Aren't they splendid? And see how vigorous they are. The flowers are pure white, silvery pink, to bright red and crimson, and 9 to 11 inches across, and they shut up at night. That purplish crimson one you see so much of is the stock on which the Japs had grafted the elegant gems above them, and as they too were so pretty I let them also grow.

WM. FALCONER.

Some Law Points Wanted.

ED. AM. FLORIST:—I should like to ask the nurserymen and florists of the U. S. to furnish me with any precedents, or any rulings or decisions of the courts, bearing on the following point or points:

I have a nursery, fronting 227 feet, (that I have used as such for over 26 years and owned over 20 years) on a then country road 60 feet wide. It was subsequently taken into the city limits and came of course under municipal control.

Recently a lot of speculators have bought up a frontage of half a mile or so and have had an ordinance passed (which as "owners of a major portion of the front feet" they had a perfect right to do under our "scheme and charter") condemning 20 feet on each side, making a 100-foot street which they intend converting into a boulevard. All this I have no objection to, because I know they have the right and the power. Commissioners have been appointed to assess benefits and damages and I am led to expect that I am to be found as much benefitted (by reason of future enhancement of values) as damaged.

Now the point I make and claim is this: That my case differs entirely from the speculators who want to enhance the value for selling purposes. I don't want to sell but want to hand down this front to my son to continue my business as long as he can. Hence how will the enhancement benefit me? But the main feature that I claim is that I ought to have full pay at present value for the land taken, on the ground that it is my factory, wherein I manufacture—i. e. grow—my products. I look upon it as though it was just so much invested in brick and mortar. Space is my factory (and I have often seen it alluded to as such in your and other trade papers) and the soil might be likened to raw material, which could be easily added if taken away, while space could not.

If A is a florist or nurseryman and has a piece of ground condemned for any public use, worth say $1,000, and B has a factory, a wagon shop, or any other building worth the same, the commissioners would not hesitate to say that he must be paid full damages for the loss of his shop and land on which it stands, hence I can not see why the florist should not be paid for his land on the same principle. Must I be compelled to donate my land under the guise of benefits when I shall be compelled afterwards by law to pay for expensive improvements, as granitoid sidewalks, gutters, etc., wooden pavement, grass plot in the center, etc., all of which I really do not want in my business and which I think will not benefit me in that—but would welcome if I wanted to sell.

I think there must be lots of precedents to be found and I should be glad to find out what is the rule in such cases in different parts of the U. S., if brothers in the trade will kindly furnish it.

I have also hedges—a Pyrus Japonica hedge 20 years old, but well kept, and numerous other specimen trees and shrubs that have served as advertisements of my business for years. How about these?

St. Louis, Mo. C. SANDERS.

MADISON, WIS.—Mr. J. A. Tormey has established nurseries here to be known as the Madison Nurseries.

A PATENT for a machine for baling trees has been granted to Henry A. Thomas, North Bend, Nebraska.

COLORADO is preparing to show small fruits in bearing at the World's Fair. The plants will be grown in pots. It is intended to show in this form 125 varieties of strawberries and 35 varieties of other small fruits.

St. Louis.

The weather has been fine the past week and flowers are much improved. Roses are unusually fine for the season. Pæonies in abundance from outdoors. Outdoor roses are coming in and will be in full bloom by the end of the week. Prices are holding good and all good stock is being disposed of.

J. C. D.

Lower Freight Rates from the Pacific Coast.

The freight rate on bulbs from San Francisco to all eastern points has been reduced from $4.20 to $2.50 per 100 lbs. Certainly a very heavy cut and one that will considerably cheapen to the trade the many bulbs that come from Japan via of San Francisco. This heavy reduction has been made in response to special exertions on the part of Messrs. H. H. Berger & Co., of San Francisco and they are certainly entitled to much credit for same.

A CARNATION bloom of the Wilder type has been received from Mr. W. Knuth, with the W. D. Allen Floral Co., Summerdale, Ill., who states that it is a cross between Grace Wilder and Tidal Wave, and that it is a good grower and bloomer. The color is a very pleasing shade of pink, the flower was of good size and with perfect calyx.

YOU CAN never invest $2 to better advantage than in a copy of our new trade directory and reference book.

Do YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a young man age 16; home experience; willing to learn under practical florist. Address K E. care American Florist.

SITUATION WANTED—By a young, sober, German gardener and florist in a large place. Address CONRAD SCHULZE, 168 Greenwich street, New York City.

SITUATION WANTED—By a first-class florist; German, single, 30 years of age, experienced in rose and carnation growing and general floral work. E. B. KRIEGER, 116 Dunning St., Chicago.

SITUATION WANTED—By boy, age 16, has had 2 years' experience in greenhouses at O. S. and S. O. Home. Address for particulars. R. W. SWABY, O. S. & S. O. Home, Xenia, O.

SITUATION WANTED—In or near Chicago, by gardener and florist; thorough, practical man; age 35, single; speaks English and German. Best of references. FLORIST, 2423 Bank St., Louisville, Ky.

SITUATION WANTED—By a strictly temperate and reliable single man, well up in the cultivation of chrysanthemums, aquatics, roses, carnations and general greenhouse plants. First-class references. Address W H B, care Wm. Tricker, Dongan Hills, S. I., N. Y.

SITUATION WANTED—By a first-class florist; German, single, 25 years of age; excellent knowledge in growing roses, carnations, cut flowers, propagating palms, general stock and well up in design work. Best of references. Address Box 1532 Postoffice, Salt Lake City, Utah.

WANTED—For Chicago, good man on ferns and palms; also a first-class cut flower grower. $12 per week. Address M. BRAUN, 1290 N. Halsted St., Chicago.

WANTED—A man to take charge of a commercial plant of 14 greenhouses, to grow mostly cut roses and small rose plants. Prefer married man. Must have good references—others need not apply. Address LAROCHE & STAHL, 1237 Chestnut St., Philadelphia, Pa.

FOR RENT—Greenhouses, either with or without dwelling. Address VIRGINIA, care American Florist, Chicago.

FOR SALE—Greenhouses and stock. For particulars, address W. S. SAWYER & Co., Lincoln, Neb.

FOR SALE OR LEASE—Greenhouses and dwelling, with or without market garden attached. Address VIRGINIA, care Am. Florist, Chicago.

FOR SALE OR LEASE A growing business, with greenhouses, dwelling and ample grounds. Address VIRGINIA, care American Florist, Chicago.

FOR SALE Six greenhouses and stock. Wholesale shipping trade, growing rapidly. Good opportunity for wide awake florist. Reason for selling, poor health. WHOLESALE, care Am. Florist.

FOR RENT—Five brick greenhouses, already stocked; one 20x40, three 20x60 and one 13x30, with 6-room brick dwelling, nicely located in city of 65,000. Address C. G TURNER, 1513 Franklin St., Wilmington, Del.

FOR SALE—Rose growing plant containing 25,000 square feet of glass with property, situated 25 miles from New York City; stock and houses in A1 condition; plants are growing for next season's planting, mostly Am. Beauty and Safrano. Will sell on easy terms. Address ROSE GROWER, care American Florist.

FOR SALE—Well established and centrally located florist business, including residence, lot 100x134, greenhouses, boiler, etc., and choice stock, in a city of 50,000 population. Reason for selling, death of late proprietor. A splendid opportunity for a man of small capital. For further particulars address, FARMER & FARMER, Solicitors for administratrix, Hamilton, Ontario.

FOR SALE.

Nine greenhouses containing about 16,000 feet of glass, ½ cast double glass; all houses rebuilt 4 years ago; heated by hot water use city water for watering 2 acres of land, 1 brick dwelling house with 8 rooms, 1 frame house of 4 rooms, stable, horse, harness wagon, etc. The above property is located in one of the best commercial cities of the west, with a population of over 60,000, and within 1¼ miles of city hall; electric cars pass every 6 minutes direct to city hall and Union depot. The greenhouses are well advertised and enjoy a good patronage at home and from abroad, and now contain a good stock of cut flowers, decorative and bedding plants. Poor health causes owner to retire from business. Would also be willing to sell greenhouses and stock and lease grounds and one dwelling house for a number of years, with privilege to purchase at a fixed price when lease expires. A bargain to a man with small capital. Address BUSINESS, care American Florist, Chicago.

BRIDESMAID,

THE NEW PINK ROSE.
ITS BLOOM ALWAYS IN DEMAND.
OUTSELLS THE MERMET
EVERY TIME AT
HIGHER PRICES.

100 3-inch plants, $25.00.
12 3-inch plants, 9.00.

SUNNYWOODS GREENHOUSES. **FRANK L. MOORE, Chatham, New Jersey.**

ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

FRANCES B. HAYES, AND OAKMONT,

HYBRID BOURBON. HYBRID REMONTANT.

Extra fine Selected Stock for the Trade.

JOHN N. MAY, Summit, N. J.

Forcing Roses.

All the leading varieties—Beauty, Guillot, Bride, Mermet, Perle, and others now ready for shifting. You will find it to your advantage to plant nothing but carefully selected stock.

Send for list before placing your order. **M. A. HUNT, TERRE HAUTE, IND.**

ROSES.

100,000 Roses for florists' planting, strong, healthy plants of the leading varieties for forcing. Per 100, out of 2½-in. 3-in. 4-in.

PERLE, SUNSET, WABAN, LA FRANCE	$ 6.00	$12.00	$15.00
MERMETS, BRIDES, NIPHETOS, PAPA GONTIER, MME. CUSIN, MME. WATTEVILLE, MME. HOSTE and GEN. JACQUEMINOT	5 00	9 00	12 00

20,000 CHRYSANTHEMUMS, 100 varieties, including Novelties of '92, and the best standard sorts. Send for catalogue.

A. N. PIERSON, Cromwell, Conn.

Roses

From 2½-inch pots, $5.00 per 100
" 3 " " $8.00 per 100

Brides, Mme. Cusin, Cath. Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban.

The Climbing Perle des Jardins and Climbing Niphetos, $12 per 100, 2½-in. pots.

CHRYSANTHEMUMS.
All the leading varieties, at $5.00 per 100.
EXCELLENT STOCK.

JOHN HENDERSON CO.,
Flushing, N. Y.
Mention American Florist.

WANTED.

Position as manager or foreman on private or commercial place, by first-class gardener; 25 years practical experience on largest private and commercial places around New York. Thorough knowledge of herbaceous plants, fruits, roses, palms, orchids, etc.; also landscape work. First-class references from past and present employers. Married; small family. Address COMPETENT, care Am. Florist.

WANTED.

An active business partner with capital of from $3,000 to $5,000 in Greenhouse and Seed Business. A fast growing northern town of 30,000. Flower business quite new in the locality. A large and rapidly settling territory to be supplied from this point with seeds, plants and flowers. Eight or ten towns of 4000 or 5000, and a great number of smaller places are tributary to it. On application from a practical florist with the above capital, catalogue for 1892 will be sent, and full particulars given. Change of business in July or August. Address NORTH, care American Florist, Chicago.

✻ ROSES. ✻

We have the finest plants and largest assortment in 2½-in. pots ever in the northwest.

	Per 100		Per 100
Waban	$6.00	Niphetos	$ 6 00
Mme. de Watteville	6.00	Sunset	6.00
Wootton	6.00	Bride	6 00
Meteor	6 00	Perle	6 00
Mme. Hoste	6.00	La France	6 00
Mermet	6 00	Am. Beauty	10.00
Duchess of Albany	6.00	Mrs. J. Laing	10.00

Also a large stock of VERBENAS, at $1.00 per 100.

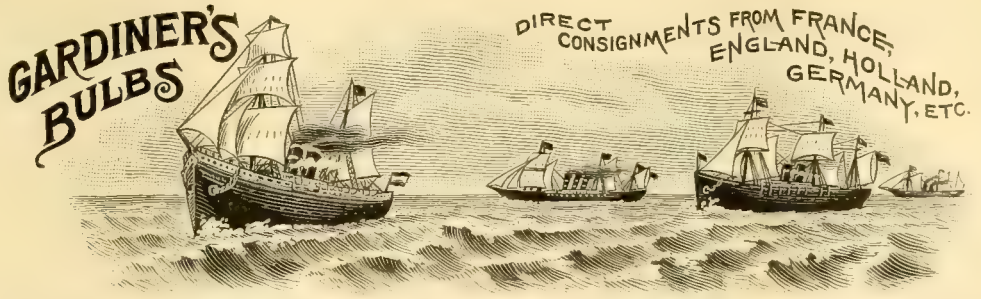
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All the Standard Varieties, best for forcing. Strong, healthy plants in 2-inch and 3-inch pots propagated and raised from best wood. Price list sent on application.

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Would also like to call your attention to the very low figures at which we offer Freesia Bulbs (page 6) and Lily of the Valley, Gardiner's XX 3 year Berlin (page 4).

REMEMBER you have everything to gain and nothing to lose by sending us a memorandum of your wants in this line **NOW.**

We import by the fastest steamers direct from the bulb growing districts, thus insuring **EARLY DELIVERY.** Being direct importers as well as growers, you have no middleman's profit to pay, and you can thus depend on getting the best quality stock at the **LOWEST POSSIBLE PRICES.**

JOHN GARDINER & CO., BULB GROWERS AND IMPORTERS **PHILADELPHIA, PA.**

WABAN, MERMET, AND BRIDE,

ROSES,

2½-inch pots, $3.50 per hundred; $30.00 per thousand, good strong plants.

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RICHMOND, VA.

ROSES.

TEAS $30.00 per 1000
HYBRIDS 40.00 per 1000
Healthy plants, in 2-inch pots.
Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.
Trade list on application.

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LOUISVILLE, KY.

ROSES.

The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100, Waban, $6 00; Duchess of Albany, and Meteor, $5.00 per 100; La France, Bride, Sunset, $5.00 per 100; Perle, Mermet, $4 50; Bennett, $8 00 per 100.
Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

C. A. SMITH FLORAL CO.,
South Seventh St. Minneapolis, Minn.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.
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Fine varieties, in 4-inch pots; fine, strong plants, clean and vigorous. $10 00 per 100.

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	Per 100
COLEUS GOLDEN BEDDER, strong plants, from 2-inch pots	$ 2.00
HYDRANGEA HORTENSIS and OTAKSA, mixed, 2½-inch pots, nice plants	3.00
GERANIUMS MT. of SNOW, 2½-in. fine plants	4.00
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CHRYSANTHEMUMS, named, my selection, from 10 to 50 varieties, all good kinds, strong plants	2 00
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CANNAS, good kinds.	3 00
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Address **N. S GRIFFITH,**
Jackson County. *INDEPENDENCE, MO.*

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ROSES.	Per 100 3 inch	Per 100 2 inch
Bride, Mermet, Niphetos	$ 7 00	$ 3.50
Albany, La France, Perle	8.00	4 00
VERBENAS		2.50
MOON VINES, Manettia and Cobea.		4 00
COLEUS and Alyssum		2.50
PELARGONIUMS Everblooming Fred. Dorner, fine stock	$10.00 per 100	

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Our Specialties for this Season will be

Small, pure white Hyacinths, to succeed the Romans.
Scarlet von Tholl Tulips, La Reine, Chrysalora and other market vars.
Double Von Sion Daffodils in any quantity.
Narcissus Bicolor Horsfieldii, Sir Watkin, Golden Spur, Poeticus ornatus, Albus plenus odoratus.
Gladiolus Colvilli alba and The Bride, both pure white.
Spiræa compacta multiflora and Spiræa astilboides, two new sorts now much in demand in Europe.
Scilla Siberica and other bulbs and bulbous roots for forcing, etc.

Our Catalogue for 1892 will be mailed free on application if not already received, which refers to prices, terms and other information.

SEGERS & CO.,

BULB GROWERS,

Lisse, near Haarlem, **Holland, Europe.**

Registered cable address SEGERSCO, Lisse, Holland.

ESTABLISHED 1874.

Vegetable Plants.

We carry a full supply of the best leading market varieties, and can ship carefully packed at the proper season. Special prices on application.

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Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A GENERAL INTRODUCTION.

There has been some little complaint of the difficulty of identifying those we would like to meet and become personally acquainted with at the annual conventions of the Society of American Florists. Various plans to make identification easier have been suggested, but all have either been impracticable or have had some objectionable feature that militated against their adoption.

The AMERICAN FLORIST proposes to solve this problem in a way that will we believe be eminently satisfactory to every member of the society, and without any expense to that organization. Our plan is to print in our convention supplement portraits of every member of the Society of American Florists who expects to be present at the Washington meeting. Of course, in order to give space to such a large number, each one will be reduced in size, but they will be good portraits and large enough so that the originals may be readily recognized from them. These portraits will be numbered consecutively and the names given opposite their respective numbers on an adjoining page, and there will also be given in the supplement an alphabetical list of the names, referring to the portrait by number, so that reference from and to the portraits will be quick and convenient.

If you expect to be present at the Washington meeting next August, and are a member of the Society of American Florists, or expect to join at Washington, please send us a recent photograph of yourself, cabinet size preferred. If you have no recent photo, have one taken. This should be attended to now, for with the great amount of engraving that will have to be done we must have the photos in hand by July 15 at the latest. And do not send photos that need to be returned to you as they will have to be cut in arranging in the groups. If you have a good recent photo send it in to us now, always writing name and address on the back.

ALL THE WAY from Tacoma, Washington, comes a lot of chrysanthemum flowers from Mr. Albert Herbert, of the Wapato Lake Park Greenhouses. They arrived in very fair condition considering the length of the trip. The varieties were Christmas Eve, Tensia, Venus, Brazen Shield and Magnet. Mr. Herbert writes that he has had chrysanthemums in bloom from last September up to date.

WE HAVE received from Messrs. H. Weber & Son, Oakland, Md., a dozen blooms of Hinze's White carnation, each 2½ inches in diameter and with stout stems fully two feet long. They were very fine.

NEW CROZY CANNAS

will make you money FASTER than any other plants for the next year. We are headquarters for

	Each.
MADAME CROZY, 3½ feet	$.60
Star of '91, 3 feet	.50
Alphonse Bouvier, grand flower, deep, lustrous vermilion (June 20)	1.50
Childsii, 3½ feet, yellow spotted	.20
Gustave Senneholz, 2½ feet, salmon	.50
Louis de Merode, 3 feet, amaranth	.35
M. Lefebvre, 4 ft., leaves veined purple	.35
Miss S. Hill, 2½ ft., amaranth	.75
M. Duterail, 2½ ft., saffron	.50
J. D. Cabos, 4 feet, purple leaves, clear apricot flower, extra	$1.00
M. Coulouvrat, 3½ feet, vermilion; purple foliage	$.35
Edward Michel, 3 feet, orange flowers	.35
Henry de Vilmorin, 4 ft., red and yellow	.25
Perfection, 3 feet, yellow spotted red	.35
Prof. Charguerand, 3 feet, crimson	.35
Pres. Carnot, purple leaves, carmine fls.	.35
The Garden, deep saffron, extra	.75
Sec'y Stewart, new (Crozy seedling sent us under number and named by us,) 3½ ft., purple foliage, flower currant red, strong spike	3.50
Pres. Faivre, grand bronze, bedder,	$1.25 doz.

NEW YORK: 12 Barclay Street. **J. C. VAUGHAN, CHICAGO.**

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Robert B. Young & Co.

AUCTIONEERS OF

PLANTS, BULBS,

SHRUBS, ORCHIDS, ETC.

205 Greenwich St., NEW YORK.

OUR SALES

OF

Ornamental and Flowering Plants

Will take place on

Tuesday and Friday of each week.

Special days have been set apart for the sale of **Orchids.**

CATALOGUES ON APPLICATION.

Verbenas

IN BUD AND BLOOM.

		Per 100	Per 1000
Mammoths	Large fine flowers	$ 3.00	$25 00
General Collection	Good collection	2.50	22 00

Roses. Fine, healthy stock from 2½-inch pots. Waban, Pearl, Mermet, Mme. Hoste, Sunset, Mme. Cusin, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, S. d'un Ami... 5.00 45 00

H. P. Roses, in bud and bloom, 4 and 5-inch pots, strong plants..... $15 to 25 00

Tea Roses, in bud and bloom, 4 & 5-in. pots, strong plants..... $10 to 15 00

Alternantheras, 4 vars., strong plants.. 4.00

Cannas, strong started bulbs, 4-in. pots. 8 00

Tuberoses, " " 4-in. pots. 6 00

Dracena Indivisa, strong plants..... 40.00

☞ Send for price list of other stock.

WOOD BROTHERS,
FISHKILL, N. Y

Mention American Florist.



NEW PLANTS.

Rare tropical fruit and ornamental plants, trees, vines, bulbs, from the four corners of the earth. Choice Florida plants of merit. Palms, decorative stock, etc. Send for special wholesale list, or Notice page 555 Feb. 4th FLORIST.

REASONER BROS.,
Oneco, Fla.

CHEAPEST BEDDING PLANTS AND WATER LILIES IN THE COUNTRY.

Alternanthera, two best kinds, from 2½-inch pots, fine plants, at $15.00 per 1000

Blue African Water Lilies, fine plants, from 2½-inch pots, at $25.00 per 100.

Sagittaria montevidensis, from 2½-inch pots, at $3.00 per dozen. These 2½-inch pot plants will bloom this summer; smaller ones will not.

Address **F. J. ULBRICHT,**
ANNISTON, ALA.

CANNAS.

EMILE LECLERC, yellow, spotted orange, 60c per doz.; $4.00 per 100.

PRESIDENT FAIVRE, the very best old variety having dark leaves, $1.50 per doz.; $10.00 per 100.

PREMICES DE NICE, the most effective variety having yellow flowers, for massing, $1.00 per doz.; $6.00 per 100; $50.00 per 1000.

MIXED "CROZY" CANNAS, $1.00 per dozen.

ORDER EARLY.

EDWIN LONSDALE, Florist,

Wyndmoor, near Chestnut Hill, PHILADELPHIA, PA.

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CAPE JESSAMINES

CAPE JESSAMINE CUT FLOWERS

of the large flowering var., $2 per 100.

Packed carefully and shipped ANY DISTANCE with perfect safety. TRY THEM.

White Hollyhock blooms		$2.00 per 100
Sweet Pea	"	1.00 per 100
Marguerite	"	.50 per 100

Ft. Worth Nursery, Seed & Canning Co.

DALLAS, TEXAS.

Mention American Florist.

CAPE JESSAMINE BUDS

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CHOICEST QUALITY. LOW PRICES.

Wisconsin Flower Exchange,

131 Mason Street, MILWAUKEE, WIS.

Mention American Florist.

For June Wedding Decorations.

ASPARAGUS PLUMOSUS

Cut Strings 8 to 10 feet long, 50c.
" " 12 to 18 " " $1.00

Order from any wholesale dealers in Boston or from the greenhouses.

W. H. ELLIOTT, Brighton, Mass.

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20 West 24th Street, NEW YORK CITY.

THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

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WHOLESALE FLORIST

79 Lake Street, CHICAGO,

(Successor to Vaughan's Cut Flower Dep't.)

All Flowers in Season.

Full line of FLORISTS' SUPPLIES.

NOTICE.

We have the exclusive control of the largest crop of

JACQ. ROSES,

GROWN UNDER GLASS,

that has ever been put on this market. Place your orders at least one day in advance if possible.

Present Price, $10.00 per 100.

Don't forget that HUNT is the man to get them of.

KENNICOTT BROS.,

Wholesale Florists,

34 & 36 RANDOLPH STREET,

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WIRE WORK A SPECIALTY.

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FLORISTS' SUPPLIES,

116 Dearborn Street, CHICAGO.

Store Closes Nights 9 P. M.: Sunday 2 P. M.

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4TH & WALNUT STREETS,

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R. J. MENDENHALL,

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—ALL KINDS OF—

CUT FLOWERS IN SEASON,

At Retail and Wholesale

And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist. Send for Catalogue.

R. J. MENDENHALL,

MINNEAPOLIS, MINN.

HARDY CUT FERNS

MOSS { SPHAGNUM AND GREEN SHEET.

A 1 IVY LEAVES.

BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.

HARTFORD & NICHOLS,

18 Chapman Place. BOSTON, MASS.

THE

INVISIBLE BOUQUET PIN

75 CENTS PER GROSS.

INDISPENSABLE TO THE RETAIL FLORIST.

Send for my Primer, free.

GEO. B. WILLCOX, Bay City, Mich.

Wholesale Markets.

Cut Flowers.

BOSTON, June 1.	
Roses, Gontier, Niphetos	2.00@ 3.00
" Perle, Sunset	2.00@ 3.00
" Mermets, Brides	2.00@ 6.00
" Jacqs	8.00@12.00
" Brunners	20.00@25.00
Carnations, short	1 00
" long	1.50@ 2.00
Valley	4.00
Callas	8.00
Harrisii lilies	8.00
Stocks	2.00
Candidums	2.00@ 4.00
Sweet peas	1 00
Gladiolus	10.00
Spiræa	3 00
Mignonette	1 00
Smilax	17.00@25 00
Asparagus	50.00
Adiantum	1.00
NEW YORK, June 1.	
Roses, Gontiers, Niphetos	1.00@ 2 00
" Perle, Sunset, Cusin	1 00@ 2 00
" Mermet, Bride Watteville	2 00@ 3 00
" Jacqs	3 00@ 8 00
" Beauties	5.00@20.00
" Hybrids	3.00@20.00
Carnations	1 00@ 1 50
Valley, indoor	5.00
Narcissus poeticus	1 00
Harrisii	4 00@ 6.00
Callas	6.00@ 8.00
Sweet peas	.50@ .75
Mignonette	1.00@ 2.00
Smilax	10.00@20.00
Adiantums	1.00
PHILADELPHIA, June 1.	
Roses, Brunners	20.00@25.00
" Beauties	15.00@25.00
" Laings, Lutzets	20.00@25.00
" Mermets, Brides	5 00
" La France, Albany	5.00
" Jacqs	6.00@10.00
" Cusins, Watteville	4 00
" Perles, Niphetos, Gontiers	3 00
Carnations	1.00@ 1.25
Sweet peas	1.00
Harrisii	6.00@10.00
Smilax	20.00
Adiantums	1.00
Valley	5 00
Cornflower	1.00
CHICAGO, June 1.	
Roses, Perle, Niphetos, Gontier	3.00@ 4 00
" Bon Silenes	2 00
" Mermets, La France, Hoste	3 00@ 5.00
" Bennetts, Dukes, Woottons	4.00@ 6 00
" Albany, Bride	4 00@ 6 00
" Am. Beauties	12.00@15.00
" Jacq	6.00@10 00
Carnations, long	1.00@ 1.50
" short	.75@ 1 00
Tulips	3.00@ 5.00
Valley	2.00@ 3 00
Callas	10 00@12 00
Harrisii	12.00
Adiantums	1 00
Smilax	20.00@25 00
Pæonies	5 00@ 7 00
Cape Jessamine	2.00@ 3.00
Pansies	.30@ .40

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Successors to WM. J. STEWART,

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WHOLESALE.

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Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

Mention American Florist.

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49 West 28th Street,

NEW YORK,

WHOLESALE DEALERS IN AND SHIPPERS OF

Choice Flowers.

EDWARD C. HORAN,

WHOLESALE FLORIST

34 W. 29TH ST., NEW YORK.

SUCCESSFUL SHIPPING OUR SPECIALTY.

WALTER F. SHERIDAN,

WHOLESALE

FLORIST,

32 West 30th Street, NEW YORK.

Roses Shipped to all Points. Price list on application.

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WHOLESALE

FLORISTS

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A complete line of Wire Designs.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., June 14—16. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

WESTERN MEMBERS who propose attending the Annual Meeting of the Seed Trade Association at Hartford, Connecticut, are invited to arrange to meet President F. W. Barteldes at the Sherman House, Chicago, either Saturday night, June 11th, or latest Sunday morning June 12th, that a party may be made up for the trip from Chicago to Hartford.

WORCESTER, MASS.—J. A. Rice, seedsman here, expired suddenly in his store the morning of May 20.

News Notes.

INDIANAPOLIS, IND.—Mr. John Gird has gone into partnership with Mr. L. Schwartling at 21 Lexington avenue.

DECATUR, ILL.—N. Bommersbach intends rebuilding part of his greenhouses and adding two new rose houses. Business good.

ONEIDA, N. Y.—Easter trade was about 15% larger than, and prices about the same as, last year. Supply was good and quality fine.

LINCOLN, ILL.—Business good locally, but impossible to ship on account of the floods. Many trains taken off and no direct communication.

THREE RIVERS, MASS.—Alfred B. Copeland has removed here from Springfield and will grow violets and hardy herbaceous plants as specialties.

PITTSBURG.—The contract for the new conservatories at Schenley Park has been awarded to the Lord & Burnham Co. The contract price was $101,334.

SPRINGFIELD, ILL.—Florists look blue on account of the wet weather and backward season, with their greenhouses full. Decoration Day coming, hundreds of vases to fill and no place to put them. Certainly it is aggravating to say the least. Chas. Hay has some fine specimens of Cattleya Mendelli in bloom.

PETER E. SHEETZ NURSERIES,

3513 Kensington Ave., Phila., Pa. Per 100

Abutilon Eclipse, 4-inch pots	$ 4 00
Achyranthes, 4-inch pots	6.00
Ageratum Dwarf Blue, 3-inch pots $3.50, 4-inch	5 00
Alternanthera 2-inch pots	3 00
Alyssum, 2-inch pots	2 50
Cineraria Maritima, 2-inch pots	2.50
Heliotrope 4-inch pots	7.00
Honeysuckle, 5 and 6-inch	20 00
Lobelia gracilis 4-inch pots	3 00
Periwinkle variegated 2-inch pots, $3.00; 3-inch $1.50, 3½-inch, $5.00; 4-inch	7 50
Petunia, double white, 4-inch pots	8 00
Scarlet Sage, 4-inch pots	8 00
Smilax, 2-inch pots	3 00
Madagascar Vinca, white, 3-in. pots, $4.00; 4-in	6.00
Marie Guillot Roses, 3-inch pots	4 00

PANSIES	$1 00 per 100
GERANIUMS, 4 inch	8 00 per 100
FUCHSIAS, 4-inch	7.00 per 100
BEGONIA METALLICA, 4 inch	1 00 a doz.
DAISY SNOWFLAKE, 4-inch	6 00 per 100
PYRETHRUM, 4-inch	.75 a doz.
CINERARIA MARITIMA, flats	1.50 per 100

Cash with order.

☞ Small Geraniums, Fuchsias, Alyssum and Lobelia and Carnations, sold out.

THE COTTAGE GARDEN,
EAST MORICHES, N. Y.

FLORAL DESIGNS,
The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to
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Tuberous Begonias, from the finest European collections	$ 5 00
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Cut Flowers.

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SEE PAGE 971, ISSUE OF MAY 26th, 1892.

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Daffodil Grounds, ARD CAIRN.

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FROM A RELIABLE QUARTER.

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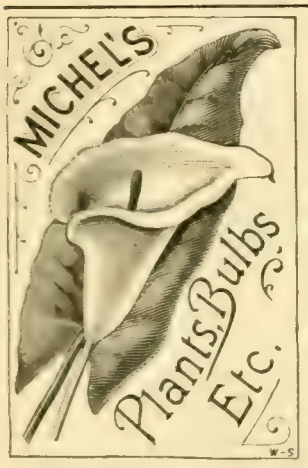
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Society of American Florists.

Members of the Society of American Florists who have knowledge of any deaths in the ranks of the society during the past year are earnestly requested to forward to the secretary the names of such deceased members with date of death and any other information appertaining thereto which may be thought desirable. The membership of the society extends over so wide a territory that excepting in the case of the more prominent members it is a difficult matter to keep an exact record of deaths without some assistance from the members, and it is most desirable and proper that at our annual gathering we should pay this small tribute of respect to our late associates, not forgetting any.

WM. J. STEWART, Sec'y.

IF you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.



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Chapmanni, red and gold, very fine,
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HENDERSON'S NEW COLEUS FIRE CREST,
bright carmine crimson edged with golden yellow. By mail, prepaid, 60 cts. per dozen; $4.00 per 100 by express.

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CHRYSANTHEMUMS
IMPERIAL FAVORITE, deep golden yellow.
ORIENTAL BEAUTY, white shaded pink; hairy, $1.50 each.
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PROSPERITY, clear canary yellow.
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We have a large stock and ship only well grown plants. Order now, before we commence repotting.
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Choice young plants in assortment, largely JACKMANNI, 2½-inch pots, $1.25 per dozen; $10.00 per 100.
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The New Cannas, Mme. Crozy AND Star of 1891.

We have without question the largest stock of these New Cannas in the United States, and have probably more available stock than is held by all other American houses combined.

At the present time we have 300 running feet of greenhouse, 20 feet in width completely filled with these valuable varieties. The price of these Cannas may seem high, but we consider them the most valuable novelties that can be purchased by florists at the present time. Although these prices are high, we will not cut these rates, or sell for less than the prices here quoted this season, and will not unload them at the end of the season as is often done by many houses in the trade, to the injury of the purchasers who have bought early in the season at high prices. We consider these Cannas are worth fully all we ask for them to grow on for another season, and will guarantee buyers that we will not offer them at less prices than here quoted this season, so that buyers can purchase them with confidence. Every florist who has not secured a stock of these Cannas by this time, should do so at once. The demand for these New Cannas is increasing constantly for they are far superior to anything else in the French line, and it will be wise to invest in these to the exclusion of every other of the so-called French varieties that have been offered up to this time. They are head and shoulders above everything else. Send in your order at once, and secure the stock while we have it, for while our stock is large, we do not think it will equal the demand before the season of 1892 is ended. Our plants are *extra strong* and well established, with fine tops, from a foot to 18 inches in height, and can be shipped either from pots, well established, with a fine ball of earth attached, or can be shaken out, and most of the soil removed, in which case they make a much lighter package. In ordering, please state which way you prefer to have the plants shipped you; for long shipments they can go as well with almost all the soil shaken out. Park and Cemetery Superintendents and florists generally should make large plantings of this stock, which will make a fine display for them, and the increase of the stock will be one of the best investments that can be made for another year.

The flowers of "Madame Crozy" are a flaming scarlet bordered with gold, a marvelous combination of colors, having all the delicacy and loveliness of the rarest orchid. It produces all the wealth, richness and tropical luxuriance of foliage of the common kinds, added to which is the gorgeousness of their flaming panicles of bloom, which are borne in immense heads at the terminus of every shoot. The individual flowers are five inches in diameter, and when the large size of the flowers and the large heads of bloom are taken in connection with the freedom with which it blooms, it makes one of the most attractive plants for bedding it can be possible to conceive of; it also makes elegant plants for the conservatory both summer and winter—in fact it is one of the finest plants for conservatory decoration there is. Every shoot blooms, and as often as a head of bloom passes its prime another shoot pushes beyond it, and each shoot flowers three, four or five times in succession. As the plants are constantly throwing up shoots from the ground, they continue a mass of most gorgeous bloom.

The flowers of 'Star of 1891" are not so perfect individually, but are equally brilliant and indispensable, as it is more dwarf in growth and can be used in planting with Crozy to advantage on this account.

PRICE OF MADAME CROZY, $60.00 per 100.

PRICE OF STAR OF 1891. $45.00 per 100.

Colored plates of Madame Crozy mailed free. Can be supplied in any quantity. Trade lists on application. Address

F. R. PIERSON COMPANY,

TARRYTOWN-ON-HUDSON, NEW YORK.

What Plants are Dutiable.

ERIE DESPATCH ET AL, AGAINST THE COLLECTOR AT NEW YORK.

Opinion by Sharretts, General Appraiser, February 18, 1892.

The merchandise covered by the numerous protests now under consideration is live plants, imported subsequent to October 1, 1890.

The appellants claim that the plants in question are of the kind usually grown under glass, for cut flowers or decorative purposes, and entitled to free entry under paragraph 666 of the free list of the said act. At the hearing of these protests, experts came before the Board and testified relative to the character of the plants. Affidavits and statements have also been received from the principal florists and nurserymen throughout the United States relative to the goods in question, based upon which we make the following finding of facts:

1st. That the following plants, namely: Rose plants, heaths, chrysanthemum, Vallota purpurea, ferns, Dielytra spectabilis, lilacs, primula, spiræa, deutzias, philadelphus, are of the kind that are chiefly used for forcing under glass, for cut flowers or decorative purposes.

2d. That the following plants, namely: Clematis, delphiniums, peonies, hydrangea, Abies excelsa, kalmia latifolia, Andromeda floribunda, aristolochia, gaillardias, hollyhocks, Iris Kæmpferi, pyrethrums, weeping trees, Cratægus Oxyacantha, are commonly known as nursery stock, and although many of them may be temporarily grown under grass, they are so grown in order to insure their successful propagation and not for cut flowers or decorative purposes.

Based upon the above findings, in accordance with the principles enunciated in G. A. 477, we sustain the protests as to the portion of the goods covered by our first finding of facts, and affirm the action of the collector as to those covered by the second finding.

As to the remaining plants covered by these protests, viz: Acer, Forsythia viridissima, pteleas, codrentheria, taxus, no testimony having been offered by the appellants to sustain their contention that they are free of duty, we hereby sustain the action of the collector.

We further find that the Act of March 3, 1883, has been duly repealed, and that the Act of October 1, 1890, is constitutional, was duly and legally enacted, and is in full force and effect.

Another decision of same date places rhododendrons on the free list.

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600 ACRES. 13 GREENHOUSES.

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(The True Long-leaved variety of Sago Palm.)

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" 12 "		" 22 "			2.50 "
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Alternanthera, fine	$2.50 per 100
Torenia, fine	2.50 "
Double Petunia, 3½-in. pots, for retail,	6 cts
Dracæna indivisa, 30-inch	25 cts
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SALE TUESDAY, JUNE 7TH,

OF A GRAND IMPORTATION OF THE NEW AND BEAUTIFUL

CYPRIPEDIUM CHAMBERLAINIANUM, Consisting of about 500 PLANTS IN SUPERB CONDITION. THIS VARIETY CARRIES 30 FLOWERS ON A STEM. Purple blue, fawn and chocolate colored, and is exquisitely beautiful, most remarkable in habit, and distinct from any varie y known.

100 GRAND VARIETIES, SPECIALLY DESCRIBED BY THE COLLECTOR, OF THE TRUE OLD AUTUMN FLOWERING CATTLEYA LABIATA,

600 Imported Plants in splendid condition, of the true OLD AUTUMN FLOWERING CATTLEYA LABIATA, collected out of flower and in first-class condition.

400 CATTLEYA MENDELII, Embracing large and fine masses, with dormant eyes, and from the best locality, from whence have come the very finest existing forms. Also importations of a Cypripedium from Sulu and Borneo. The new Oncidium Gravesianum, O. phymatcchilum, large masses of Saccolabium retusum and Dendrobium Dalhousianum, Aerides Lobbii, fine lot, together with many rare and beautiful established Orchids.

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☞ **Florists will find this an excellent opportunity to secure a stock of the beautiful Fall blooming Cattleya labiata, which, being well furnished with sound eyes, will speedily become established.**



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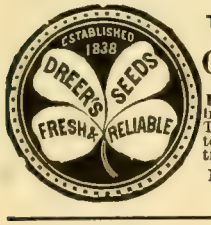
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GARDEN SEEDS

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER,
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Cyclamen Persicum Giganteum

NICE YOUNG PLANTS FOR GROWING ON.

Sold to GROWERS ONLY, by the hundred or thousand.

DAVID ALLAN, Mt. Auburn, Mass.

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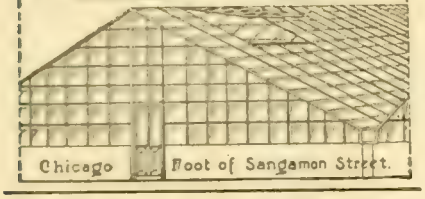
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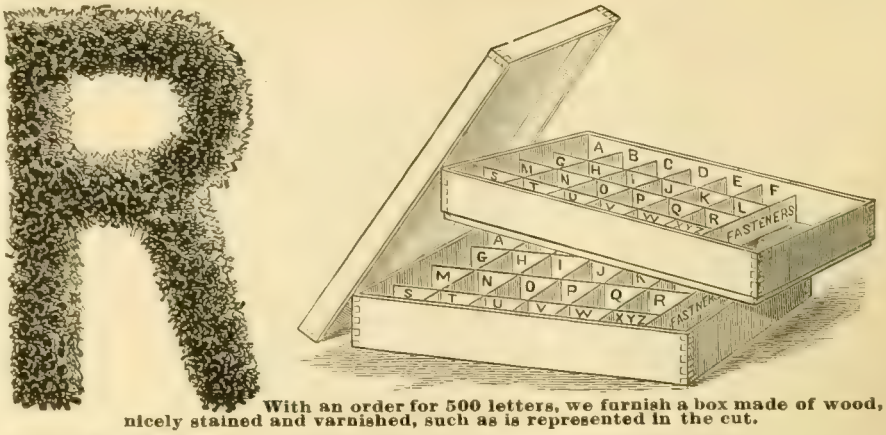
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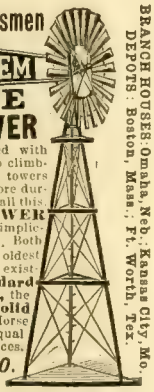
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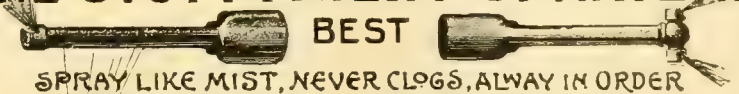
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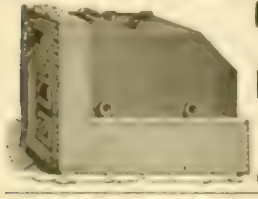
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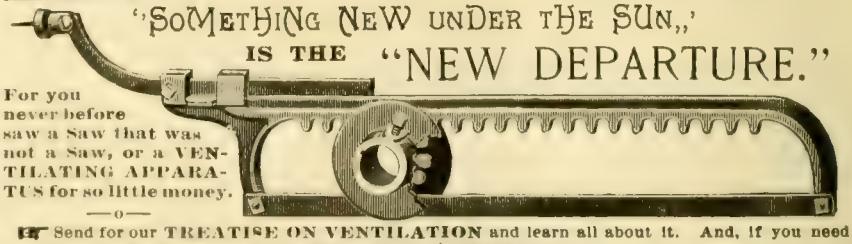
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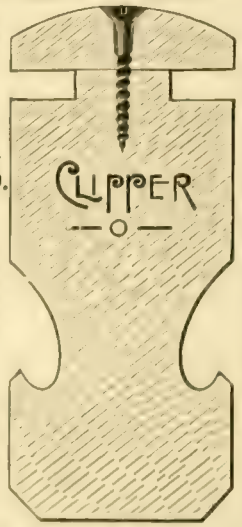


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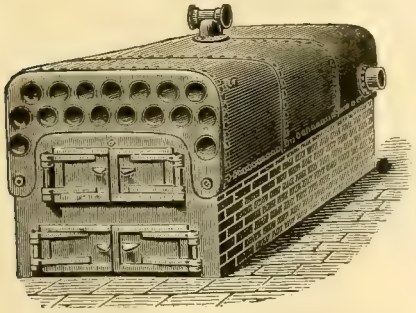
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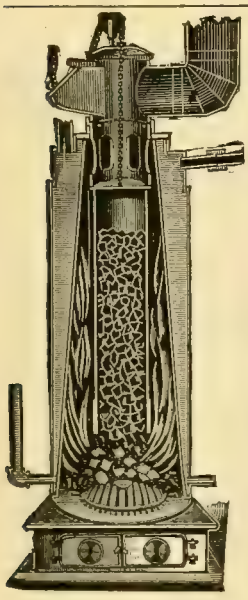
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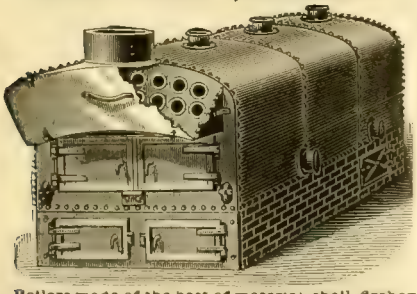
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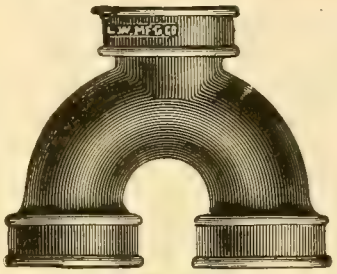
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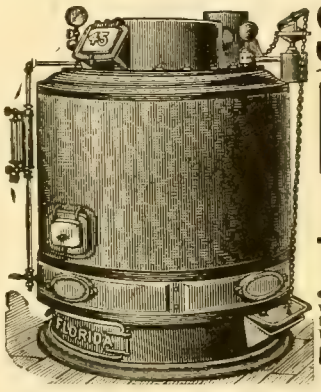
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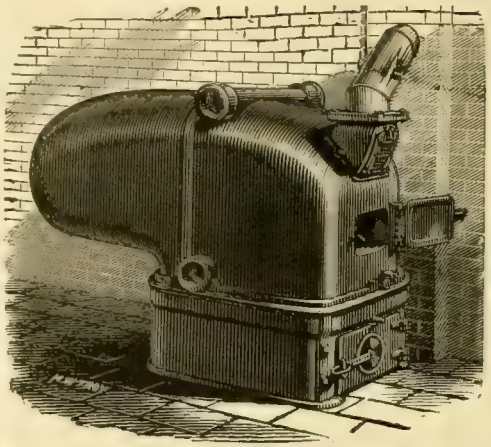
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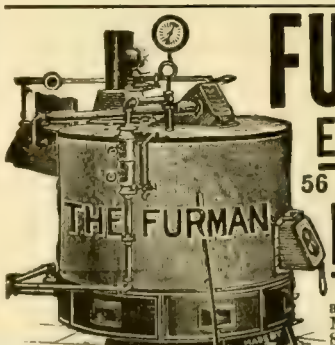
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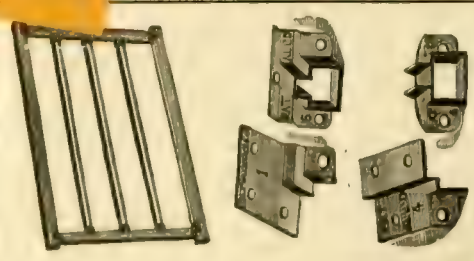
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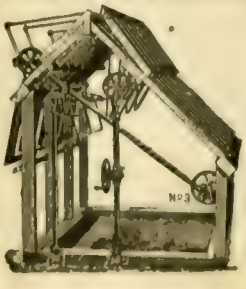
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America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VII. CHICAGO AND NEW YORK, JUNE 9, 1892. No. 210

THE AMERICAN FLORIST

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PITTSFIELD, MASS.—The Berkshire Co. Gardeners' and Florists' Club will hold a chrysanthemum show at the Coliseum early in November.

NORFOLK, VA.—W. I. Dickerman, of 65 and 67 Granby street, has made an assignment to I. A. Page. Amount of liabilities not stated.

ERIE, PA.—The Erie Chrysanthemum and N. W. Penna. Hort. Society will give its fourth annual Chrysanthemum show and floral exhibition about the second week in November next.

Vines for the Retail Trade.

Climbing, creeping, or trailing plants are constantly needed in the bedding trade, and yet we often find a scarcity in this useful class. One reason is no doubt the amount of room taken up by them; a man growing market stuff in quantity must economize space, and vines cannot be crowded beyond a certain degree. Nor is there a very great variety of such stuff grown; we don't seem to have a very great range of choice in the matter. There are comparatively few novelties introduced, and many of the older plants fall into disuse until some bright spirit revives them.

Among hardy climbers there is nothing to excel Ampelopsis Veitchii; it leads all hardy vines in New York and vicinity, and its sales this year are larger than ever before. Its deciduous habit is very greatly in its favor, many objecting to the true ivies on the ground that they make a house damp in the winter. Of its beauty, both in summer and autumn, little need be said; it certainly excels all other rooted climbers in our climate. Our native ampelopsis gives good results; one of the best examples of its use is the Pennsylvania railroad cut entering Jersey City, where the rocks are beautifully covered with it, but it seems more inviting to caterpillars than the Japanese variety, which is rarely bothered by them. A common error is in selecting the larger plants of ampelopsis; the best results are obtained by using small ones, as they always begin to take hold from the bottom. They often seem to make very little headway for a season or two, but as soon as they do start they go with a rush. The finest growths of the Japanese ampelopsis may be noted on brick or stone, with a southern or western exposure.

Another hardy vine for which we are indebted to Japan is Akebia quinata, which is not common, though an old thing. This is not a rooted climber, needing support; it is fine to cover a summer house. The odd little reddish purple flowers are very fragrant and freely produced, and the foliage is very abundant. It stands our severest winters and occasionally fruits here.

The many varieties of hardy clematis are too well known to need description; they form necessary stock in a retail business, being constantly called for where they are known. They are healthy, showy and hardy, and make a most satisfactory permanent covering for porches and piazzas.

But it is in the summer bedding trade that the retailer finds the greatest call for climbers, and there is often quite a scarcity of stock. They are needed for so many different uses; vases, boxes and baskets, in addition to covering trellises, porches or walls. For the purpose last named the true moon-flower seems one of the most desirable things we can use; it is handsome, healthy, and seems little liable to the attacks of insects, but it cannot be used in all localities. In the north and north-west it does not give the satisfaction obtained in the latitude of New York, being checked by the shorter season and colder nights. Still, it is a fine thing, and a salable thing, too, the name alone proving a recommendation to many buyers. There is a variety with variegated leaves now on the market.

Another trellis climber which has proved both salable and satisfactory since its arrival, is an old thing which had dropped out of sight, Solanum jasminoides. It flowers continually when planted out, or when indoors, and its starry white bloom sells it readily. It is suitable for trellises or piazza; it does not droop sufficiently for vases or baskets.

One of the old things which is always called for is Cobæa scandens; it is always in use, and used in quantity, too. We do not see so much Maurandya now as formerly; it has been dropped for awhile, though a little has been seen in the market this season. It is an eminently useful thing, as well as a pretty one.

In New York City we rarely see any vine used in bedding except ivy and variegated vinca. This gives a certain monotony to the vases and window-boxes, though there is no doubt that for city use these two plants give more satisfaction than any others, and then they make a big show from the start. We see scarcely any of the fancy ivies used, that is to say the true ivy, Hedera, though there are some charming variegated sorts one would imagine readily salable.

This season one of the vines sold in quantity was Lophospermum atrosanguineum. It belongs to the same family as the maurandya, having handsome cordate leaves and beautiful bell-shaped flowers, rosy purple in color. It is a very useful and showy thing.

Several of the torenias will be found useful in drooping situations, as in baskets. The well-known T. Asiatica, with its plentiful china blue flowers, will be found desirable, blue flowers being both popular and uncommon. The common thunbergias are useful, too, usually flowering very plentifully.

The little, old manettia, too, may be found serviceable, giving a variety, though, unless covered with bloom, the plants are apt to be rather scrubby in appearance.

Though the commonest of all things, the retailer will find it a convenience to have a few patches of Wandering Jew (tradescantia) about the place; it is very handy to cover up the bald spots. Of course, preference should be given to the variegated forms, either the light green and white, or the dark reddish green stripes. Bits of it can be stuck into a box

or basket whenever needed, and there is no need to think about propagating.

It is not always easy to buy vines for bedding use when needed, but a retailer can generally judge what he is likely to need, and run in some useful stuff from seed as space allows. The plants must be kept in good order, though, being properly trained and kept in shape; few things are more aggravating than to pick out half a dozen pots in a hurry, and then find that the whole bench-full is matted together. This need for both space and attention is doubtless the reason why so few grow summer vines extensively.

EMILY LOUISE TAPLIN.

Beautiful Crotons (Codiæums).

There is always something interesting to be seen at the establishment of Mr. Craig, whatever time of year one may chance to look through the extensive range of glass which that genial gentleman owns and operates. To a commercial florist this is especially the case, and there is generally something of interest even for an "onlooker" like myself. The star attraction at present for amateur and professional alike is the display of crotons (or codiæums, as the experts now call them). Two of Mr. Craig's largest houses are devoted to them and they make about as fine a showing as one could wish to see. One house is filled with plants ranging from 12 to 18 inches high, the other is used for smaller plants and for propagating.

Ever since Mr. Menge, the gardener at Fairmount Park, showed us the grand effect that could be obtained by the use of these fine foliage plants in summer bedding, the public has taken great interest in them and Mr. Craig is one of the first who has made a point of catering to the want thus created. I jotted down a list of those varieties which have been found most suitable for outside work, and append it herewith for the information of all those interested—and probably all the readers of the FLORIST are interested more or less. If they are not interested now, they will be in the near future. Mr. Walker, who called out the names of the good ones, gave the descriptions in very good rhyme; but I flatter myself I can give artistic verisimilitude to the variations of color on a croton leaf in plain prose, and I will therefore not encourage the playful John in his capers. Rhyme in this connection would be unsuited to the dignity of the subject and, besides, I don't wish to be the instrument of causing more jealousy and ill-feeling between John and Deacon Harris. The deacon has *aspirations* in the poetical line and I don't want him to be discouraged.

LIST OF GOOD VARIETIES FOR OUTSIDE.

Acubæfolium; dark green, blotched with yellow; veins and mid-rib green, slightly tinged with pink.

Chrysophyllum; yellow, small.

Disraeli; green, veined with yellow; mid-ribs yellow; long; halbert shaped.

Elegans; dark green; mid-rib crimson; long; narrow.

Evansianum; light green, veined and spotted with yellow; mid-rib yellow. This variety changes color when old.

Hanburyanum; light green, marked with yellow and crimson. A very beautiful variety.

Interruptum; dark green with crimson mid-rib; wavy margins. Very fine.

Irregulare; dark green spotted with yellow; mid-rib yellow; margins wavy.

Johannis; bright green; margins and mid-rib yellow.

Maculatum Katonii; bright green spotted with yellow.

Maximum; shining green spotted with yellow; mid-rib and margins yellow.

Multicolor; light green with yellow markings; changes color in old specimens.

Nevilliæ; light green heavily barred and marked with yellow. Old specimens change color.

Queen Victoria; golden yellow mottled with green; mid-rib and veins red; margins red. Very good.

Recurvifolium; deep green; mid-rib and veins crimson; bordered with yellow. A grand variety. Very distinct and beautifully variegated. As the name indicates, the leaves are recurved.

Undulatum; purple with crimson blotches; wavy margins.

Volutum; green, veined with yellow; recurved.

Williamsi; green, veined with yellow; mid-rib crimson. Very beautiful.

Weismanni; dark green spotted with yellow; mid-rib and margins yellow.

Youngii; dark green blotched and spotted with yellow and red.

There were fifteen or twenty more fine varieties but I had time only for a passing glance at them.

The houses in which these crotons are growing are kept very moist and the thermometer stood at over 72° while I was there (4 p. m.). The glass was shaded with scrim cloth. The compost used is a fibry loam with a sprinkling of sand to keep it porous. With proper attention to potting, watering, heating, etc., there is said to be no great difficulty in growing crotons successfully, and considering how beautiful they are and how useful for decorative purposes *all the year round* there can be little doubt but their culture will be largely increased in the near future.

G. C. WATSON.

Phila. May 27, '92.

The Mme. Pierre Guillot.

In response to a request for a description of their method of growing the Mme. Pierre Guillot, with which they are very successful, Messrs. C. Strauss & Co., of Washington, write as follows:

"There is no secret as to the cultivation of this rose. It receives with us no better and no worse treatment than Perles, Brides, Mermets, Woottons, Gontiers or La France. The houses devoted to it, about 1,000 running feet, face southeast, are sunny, well ventilated and well heated.

"Our foreman prefers not to enter into a discussion of the value of the Madame Pierre Guillot as a forcing rose. To him the successful cultivation of 12,000 bushes of this variety with much profit therefrom is sufficiently self-convincing argument. To him the fact that it can be shipped from Washington to Milwaukee or St. Augustine and reach its destination in improved condition; that it is more largely sought for by his customers than any other rose of recent introduction and that it blooms so freely as to admit of sale at moderate figures which the masses will pay, are sufficient points to warrant his faith in it. It is no American Beauty with a dollar bill requirement, but a modest, charming rose which has been profitably grown and sold at the price of the Perle and is its fit companion.

"While we do not wish to say who could grow this rose, we will say this, that any commercial or other grower of roses for cut flowers in winter who *cannot* grow the Perle des Jardins *cannot* grow Madame Pierre Guillot.

"We are not in any way attempting to place this rose on the market for past experience has convinced us how perilous is such an effort to one's good standing. We find that our venture with the Wootton has already put us in that long list of the condemned, and we are, therefore, very shy of offering ourselves again to run the gauntlet of interested and disinterested criticism."

Washington.

On Decoration Day thousands of people lined Pennsylvania Ave. to see the veterans and their escort of District National Guards parade, thus beginning the day's ceremonies. Arlington Heights, Soldier's Home and Congressional Cemeteries were the main points of interest. All the streets in the city were draped in flags and decorated with garlands of green, and wreaths and shields of flowers, some having other designs, all presenting a patriotic and beautiful appearance. This work was all completed Saturday evening.

Arlington never looked more beautiful. Granolithic walks have been laid around the Mansion, and walks extended, increasing the facilities for carriage stand and adding much to the beauty of the place as well as to the comfort of the thousands of visitors.

Mr. Rhodes, the gardener, has all his planting-out finished, and it looks very fine, though he tells me some of it had to be replanted, such as coleus and echeverias, they having suffered from a severe hail storm. Approaching the old garden south of the Mansion he has 4 beds about 30 ft long and 4 ft wide made of Alternanthera brilliantissima. Very handsomely done in echeverias are the names of A. Lincoln, Garfield, Grant and Sheridan, I noticed a round bed about 5 feet in diameter made of Euonymus Japonica radicans pinned close to the ground entirely covering it, with a rug of Pilea arborea, about six inches from the edge; through the euonymus was dotted Celosia cristata from 2-inch pots, in flower, making a unique and very attractive bed. Two rock mounds, about 20 feet in diameter and 8 feet high were covered with green moss, and in the pockets were placed good sized Pandanus Veitchii and utilis, Sago palms, Areca lutesens, Ficus elastica, draceenas, crotons, yuccas, dasylirions, ferns of various kinds and agaves, arranged in such a manner as to present a striking effect, being just in the edge of the woods in a half shady spot. Tubs containing large specimens of palms, pandanus and yuccas were placed along either side of the drives, a pleasing feature. Everything was in the most perfect order, doing great credit to both the superintendent and Mr. Rhodes.

Sheridan's tomb was a perfect mass of roses worked in handsome and appropriate designs. The massive granite shaft was surrounded with choice floral designs, surmounted with a large wreath of Jacq roses, the gift of President Harrison. On the grave, covered as it was with roses, was a corps badge from Sheridan Post, No. 14, G. A. R., of immortelles. On the right was a large flag of the Loyal Legion worked in red, white and blue immortelles, while quite a handsome cavalry saddle of roses and immortelles completed the set pieces.

Admiral Porter's grave was artistically decorated. A large cross and crown of white carnations and roses occupied a position at the head, while an anchor made of white immortelles rested amid a bed of roses at the foot. The special feature of the decorations was a large



JAPANESE GARDENING. PLATE III.

battle ship of cape flowers and immortelles, full rigged and upon its side the words, "Potomac Association of Naval Veterans. A Tribute to our Shipmate." This was made by Gude Bros. A very creditable piece of work.

The Potomac Relief Corps always pays particular attention to the Tomb of the unknown, which contain 2,111 unknown dead. When they had it decorated it looked like a bit of fairy land. The top of the tomb was covered with a large flag. From each corner hung a handsome wreath, while from the center a flag was suspended, made of white and red carnations and blue immortelles, a gift of the President. Around the base was stretched a piece of cotton 2½ feet wide which was completely covered with dark red roses. Worked in daisies were the words "Our dead" on either side of the tomb. A number of wreaths, shields and bunches of flowers covered the ground around about the tomb. This tomb attracted more attention than any other in this cemetery. At the head of each grave was placed a small flag 6 x 10 and a bunch of flowers, which constituted the decorations of the thousands whose remains rest at Arlington.

Gen. John A. Logan was known to the boys in blue as the Black Eagle, and among the many pieces decorating the General's Tomb at Soldiers Home was an eagle made of white and black immortelles. It was made by Strauss & Co. and was a very life-like representation.

Among the many pretty designs made for decoration was a large circle with the American flag and crossed guns made of carnations and immortelles, and a large shield with stacked guns, worked out with carnations and La France roses. Both were very handsomely done and were a credit to the maker, Mr. C. F. Hale.

Flowers were plentiful at the market and brought very fair prices; pæonies from $1 to $1.50 per dozen. This season being at least two weeks late with us, just caught the roses at their best. Outdoor flowers are plentiful, and inside roses abundant but of poor quality, owing to the cool and wet weather. The demand for flowers of all kinds was good, prices fair. All the florists report good trade.

We had the pleasure of a short visit from Mr. Stewart of Boston last Sunday.

C. LESLIE REYNOLDS.

Baltimore.

The thermometer and trade are day by day developing an inverse proportion that makes it almost a hopeless task for the cut-flower man to keep cool, for as the mercury slowly gains point after point, the sales of flowers drop just as surely but a little more rapidly.

Funeral work is about the only sure card, and that seems a little off, too, though still strong enough to use up all the white and yellow buds that are offered. Add to the slow demand the fact that outdoor roses are in full glory, and the markets full of them, and a reason for the glut in the Exchange the latter part of the week will not be hard to find. Smilax is still scarce, and what is offered far from first-class.

A trip around town indicated that the time of displaying choice flowers in show windows is not now, for a heavy percentage of the florists displayed glasses of pink, white and red pæonies. It is so hot though that good flowers would be thrown away if shown in quantity. R. J. Halliday has been displaying some very fine carnations in spite of the heat, and they stand it better than anything else in the cut-flower line.

Feast decorated the summer garden of the Crescent Club, a leading political organization, early in the week, and though the weather was so badly against it the decoration looked fine the next day. Palm leaves entered largely into it, and were very pretty, arranged in clusters or spread out in fans. The whole place was turned into a tropical woodland, with fountains, bowers, and cozy corners where growing plants combined with the palm leaves and wreathing in a very artistic manner. The wreathing, by the way, was not wreathing at all, but a species of smilax that grows wild hereabouts and makes a really effective substitute for "Myrsiphyllum asparagoides" where much space is to be covered and the decoration is to last several days.

Choice La France are plenty at 4 cents, Perles at 3 cents, Smilax 20 cents.

MACK.

New York.

The last week in May closed a very dead month for the flower trade, and though Decoration Day brought trade largely to those florists whose chief patrons are people of small means, it did nothing for the fashionable florist. There was a large volume of trade on the east side, plants being extensively called for. A Le Moult states that he found his trade larger, in most particulars, than last year. He sent out a great many memorial designs, among them being a huge plaque, bearing the American flag; this was for the decoration of Grant's tomb, being presented by the *Mail and Express*. A good many memorial designs were made in Cape flowers, and there was the usual demand for metallic wreaths. Some very large wreaths of Cape flowers and immortelles bore an inner wreath of silvery leaves (Leucodendron). Another busy Decoration-Day florist was Jno. J. Foley, who was formerly with Le Moult. Mr. Foley makes funeral work his specialty, and is the originator of many new designs. To him was entrusted the decoration of the Worth monument. In the part of the town where Mr. Foley and Mr. Le Moult are situated they find it most desirable to confine themselves to flowers rather than plants; it is a district in which the funeral trade is very large. Dried flowers are largely used.

The up-town florists are very quiet now; perhaps it is just as well that there is so little stirring, for the excessive heat with which June opened has nearly ruined the flowers. It was hardly worth while for the commission dealers to open the boxes, for the poor roses looked as if they had been baked. As Mr. Burns said, even the Greeks didn't want to handle them, and though other stuff was hardly as bad as roses, still it was in an extremely demoralized condition. As for prices—well, they were unquotable; there was no reaching bottom, apparently. The one thing worth quoting was lily of the valley; outdoor flowers were over and inside stock scarce; it brought from $4 to $6. A large quantity of wild flowers were in, and apparently selling well; ox-eye daisies, buttercups, and False Solomon's seal (Smilacina). Any quantity of pæonies were to be seen, and also mock orange and deutzia, but the commission dealers hardly care to handle such flowers.

Corn flowers and sweet peas were plentiful; a lot of this summer stuff is grown by small florists who go in very little for winter flowers; they find their chief harvest now, usually peddling their goods themselves.

J. H. Taylor is able to keep his roses in condition these hot days through the ingenious arrangement of his flower vault; it joins his ice-house, thus making a regular cold storage room. It is kept at a very desirable temperature, while giving every facility for the storage of flowers.

A funeral design made recently by Thorley for the Dramatic Association, was a large quill pen, mounted on a base of ivy leaves draped with Bride roses. The quill itself was composed of pink carnations, the feather of wild smilacina with a mid-rib of Cusin roses.

Most of the recent weddings have been very quiet ones, but the prevailing decorations have been pink, hydrangeas being used more than anything else. At this season we generally hear of a "daisy wedding," where these field flowers are exclusively used.

Odontoglossum citrosmum, growing in baskets, has proved an attractive decoration, lately, in the flower stores, having a carpet of lycopodium beneath and a background of Araucaria excelsa.

The auctions still keep up their interest, both plants and prices being good. Jno. S. Bush, of Tremont, sends in fine fancy-leaved caladiums to Elliott's, and also good acalypha, which makes a feature in a sub-tropical bed.

Langan Bros., of Astoria, are sending scarlet poppies to the auction; they are very showy for bedding in a sunny place.

Chas. Zeller, of Flatbush, sends in good marantas to Young's sales, as well as a variety of flowering plants. The amateurs still haunt the auctions, and help to run up the bids.

J. and R. Leach, of Bergen, have borne away the palm for Gloire de France geraniums this season, and they have sold extremely well.

The "star" of the orchid sale, on June 7, is Cypripedium Chamberlainianum, a new variety, described as of remarkable beauty. This sale offers other features of special interest.

The growers who have been accustomed to do business at the 34th street Ferry will soon have a place of business of their own. A company has been formed on a good basis, no one but a wholesale grower being allowed to subscribe and not over five shares of stock to be held by one individual. A large and convenient store has been hired, in the neighborhood of the 34th street Ferry, and it is understood that the retail dealers have offered to fit it up with necessary tables, etc. The old place at the Ferry will be abandoned.

G. Messeberg of Flatbush is growing some very fine lantanas this year; an old and useful plant for the bedding trade, which has seemed out of favor for some years. It is constantly in bloom all summer long, and has a formal sort of prettiness generally admired.

David Clark & Sons, whose store and greenhouses command a fine situation at 79th St. & Western Boulevard, report a very brisk bedding trade this season. They do a large business in window-boxes, vases and baskets, which uses up a large quantity of miscellaneous stuff. They use a great many ferns in table centres and other decorations; an adiantum which was mentioned as particularly satisfactory was A. Ballii. The growth is handsome and the foliage very firm and hard, so that it bears handling well. Some good aucubas were noted here; the varigated form is as handsome as a croton, and bears rough treatment well; admirable for city bedding. A number of these plants form a regular hedge under the windows of Delmonico's Cafe, with fine effect. Noticing some well berried plants of Ardisia crenulata Mr. Clark stated that they use a large quantity of these plants and find them very useful.

John Muller has his present store finely placed at 79th St., right opposite the Museum of Natural History. He does a good bedding trade, being in a district where it is much called for.

Philadelphia.

The weather has been very warm the past week and made it very bad for business. There were a few weddings, as is usual with the advent of June, but aside from these and funeral work there was very little doing. Flowers have been plenty and in most cases hard to sell. One of the growers, after a fruitless tramp around the stores, was seen to bring up in front of a pawnbroker's establishment, but after meditating quite a while he turned sadly away, saying, "I guess I couldn't get anything on them, I'll have to try the fakirs."

Anderson reports having done very well with his large house of Jacqs. They were very fine and sold well at $10 a hundred. Small teas are now 2 to 3, Mermets, Brides, La France, etc., 3 to 5, carnations 1 to 1¼, valley 5.

Mr. Foulds, Gywned, will erect a carnation house 125 feet long, and plant with Wilder, Hinze's White and Lizzie McGowan.

Quite a number of growers are planting houses of chrysanthemums for cutting next fall, and from the present outlook there will be no scarcity of this popular flower.

A box containing fifty plants of chrysanthemums, said to be very fine varieties, was brought from Japan by a resident of Philadelphia, and given to a florist here to grow on. But six plants were found to have any sign of life, and of these only one survived. This is a strong plant and may prove to be a valuable variety.

The trip to Washington is spoken about very frequently, and we predict a larger delegation from Philadelphia than has attended any previous convention.

John Westcott, not being satisfied with breaking the record for three games on the club alleys last week, and for fear some one else might approach it, has moved it several pins higher, making in a match game last Wednesday evening 595, nearly 200 pins to a game. He is after 600 and no doubt will soon get there.

Mr. Robert Craig was much pleased with what he saw at the World's Fair grounds while in Chicago. The progress made on the buildings of the Exposition is wonderful. The Horticultural Building has gone up like magic; last October when he was there, the piles were being driven for the dome, now the entire structure is finished, and contains seven carloads of plants from California. The Horticultural and the Art buildings, he thinks, are the two architectural gems of the show. The Fisheries Building is a unique structure, the columns around it being appropriately decorated with figures of various kinds of fish, frogs, turtles, serpents, and the like, which are placed on the columns in such a way that they seem to be chasing one another about as if in their native element. Mr. Thorpe, we are told, likes to linger about this building watching the life-like varmints. This is all right, however, as they are not visionary and can be seen by any one.

The rose garden is admirably arranged in irregular but symmetrical beds, designed to accommodate large and small exhibits. The trade will be well represented in this beautiful spot. Robert Craig will have a bed of Brunners, bordered with Clotilde Soupert. Large rose growers from all over this country and Europe have made application for space, which has nearly if not all been taken. There is a six foot trellis which entirely surrounds the garden, hiding it from view; this will be covered with vines planted by the Dingee & Conard Co. of West Grove, Pa. There will be four entrances; this garden will, it is thought, be one of the most attractive places on the grounds.

On the Wooded Island will be tested plants from all parts of the globe, many of which have never been tried in this country before.

Many of the foreign outside exhibits are already planted and doing well, the frequent rains having been very favorable to them. European florists and nurserymen have entered into this competition



JAPANESE GARDENING. PLATE IV.

with great spirit and their part of the exhibition will no doubt be very creditable to them.

There will be considerable space devoted to aquatics, the tanks and ponds being heated with steam.

The plants already received from California consist of palms, Dracæna indivisa and agaves, large plants, intended mostly for outside decoration in Mr. Ulrich's department.

The transplanting of large trees under the direction of Hugh M. Hughes of Philadelphia has been a great success as all are doing well. These were quite large trees gathered from all parts of the grounds and planted in avenues. Outside work has been greatly hindered by the wet weather, but is progressing very favorably. Mr. Craig says the Horticultural department of the Exhibition will, beyond doubt, be a grand success.

Boston.

The wedding season is at its height. They commenced on the morning of June 1st and have kept up a steady stream ever since. Weddings without flowers would never do, hence the florists have about all they can attend to. There have been no notably large decorations and no occasions worthy of special description, but there has been a big consumption of flowers for the past week and there is more ahead. Roses are in wretched condition owing to the extremely hot weather. Mermets come in like rags, without color or shape, and Gontiers and Jacqs burst wide open before they reach the city. If the hot spell continues it will not be long before the season will have caught up once more to the average.

All the dealers report increased trade for Memorial Day, some of them claiming a very large advance over former occasions. The absence of out door astilbe, snow balls, rhododendrons and azaleas was severely felt. It did not make much impression on the rose market but it sent the carnations a-booming, an abundance of first class white stocks acting as a sort of check, however, on the upward flight of the white carnations. Carnations of all kinds have been and still continue to be of extra fine quality.

For Memorial Day there is a growing tendency to use wreaths of laurel, box or English ivy leaves instead of cheap bouquets to decorate graves and tombstones. A crescent wreath of box with a bunch of roses at the base makes a beautiful design. It can be put together quickly and cheaply, will keep well, is appropriate and ought to be a favorite piece for such a purpose with florists and customers. The tawdry dried flower abominations are nowhere in comparison.

On June 1, M. Aylward, who has been foreman at the greenhouses of Thos. H. Meade on Columbia St., Dorchester, for some years, leased that property and will run the business on his own account. Mr. Meade has taken the Minton greenhouses at Harrison square and is contemplating considerable additions to the glass. He has contracted with Thos. W. Weathered's Sons of N. Y. for two of their latest improved iron rose houses, 110x18.6.

There was quite an extensive display of cut flowers at Horticultural Hall on Saturday, June 5. From F. B. Hayes there was a large collection of rhododendrons and hardy flowering shrubs in variety, filling about fifty running feet of table. J. W. Manning showed about eighty species of hardy herbaceous flowers. As always in his displays everything was correctly labelled with the botanical and common name and natural habitat. T. C. Thurlow had some fine named hardy azaleas, and Rea Bros. an excellent collection of garden perennials. Wm. Nicholson showed a new seedling carnation closely resembling Grace Wilder, which was raised by Sewall Fisher.

Chicago.

There are plenty of flowers, such as they are. Roses are extremely poor. Carnations are of fair quality, holding up in grade better than any other flower. All outdoor flowers are poor. It has been the poorest spring for out-door flowers we have had in years. The weather is still chilly but there is now an occasional burst of sunshine, and several days during the past week could, with some slight reservations, be called pleasant.

The city florists did a fair business for Decoration Day, mainly on account of the scarcity of outdoor flowers, as usually this occasion makes but few extra sales for them. But the demand from outside

was large and the wholesalers did a heavy shipping business.

The carnation grows more and more important as a factor in the cut-flower trade. The demand has been heavy all the past season, and several growers have said that it has been so much more profitable than the rose that they will next season devote a larger proportionate amount of space to it.

Mr. H. G. Higley, formerly in the business at Cedar Rapids, Ia., was in the city this week. He is now enjoying an official term as engineer and surveyor to the government of the Mosquito Reservation in Nicaragua, Central America. He is having government maps printed here, and arranging for an exhibit at the World's Fair. He says that the vegetation in the Mosquito Reservation is wonderfully luxuriant, and that orchids—mainly oncidiums—are a prominent feature.

The new greenhouses at Douglas Park are nearing completion. They will be quite an addition to the attractions of this park.

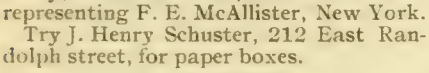
Among recent visitors to the city were Wm. F. Dreer, Philadelphia; J. D. Carmody, Evansville, Ind., and W. S. Allen, representing F. E. McAllister, New York.

Try J. Henry Schuster, 212 East Randolph street, for paper boxes.

Chester County Carnation Society.

The regular meeting of the society was held June 4, with only moderate attendance on account of a number of the members being crowded with work.

Mr. Shelmire showed an enemy to the carnation plants in the field; a small "measuring worm" that attacks the newly set plants at or slightly above the ground, boring into the center of the stalk, the plant withering and dying above the point of attack. The roots were not killed and would presumably renew their growth. The "worms" as shown were from 3-16 to ½ inch long and for about ⅓ its length, in the middle, brown, each end being white. None of



MUCH ENLARGED.

the other members were aware of the presence of this enemy. I send a drawing of the pest herewith.

Considerable discussion was had upon the purchase of material, coal, etc., and a committee was appointed to obtain prices on such equipment as might be needed by the members.

The subject for the July meeting is "The Past Winter's Work." C. J. P.

World's Fair Notes.

The horticultural department is now fairly at work in its various branches. The auxilliary houses are completed and in running order. These houses, eight in number, are substantial and well appointed structures. The heating (steam) is a combination of the overhead and underneath systems, and so far as can be judged at present this system promises to be a complete success.

Shipments of plants are coming in quite rapidly. The first to arrive was a carload of miscellaneous stuff from Florida, consisting principally of palms, and a large lot of Yucca Gloriosa; the latter will be used next summer for outdoor effects. A carload of large plants also arrived from the place of Mr. W. J. Gordon of Cleveland. In this lot was an immense specimen of the Crape Myrtle which was brought over from England by Chief Thorpe on his coming to this country some twenty years ago. A much larger shipment from Mr. Gordon is expected to arrive this week.

The seed trial, an outline of which was published in a former issue of this paper, promises to be a very interesting one. In the class of plants grown under glass the following are represented: Cyclamens, primulas, gloxinias, tuberous begonias, cinerarias and calceolarias. All the principal seed growers of Europe and this country have sent in their choicest strains of seeds of the various kinds. Every variety that has been sown so far has come uniformly well, and the seedlings are looking strong and healthy. The cyclamens pricked off into flats are as fine a lot of young plants as one could wish to see. The first sowing of Primula sinensis, some 15,000, are also looking very fine. Another sowing of these will be made at a later date.

The trial in pansies this year is of course but a preliminary one. The plants grown this year are intended for fall flowering. Thousands of plants from seeds and cuttings are being grown, mainly of such kinds as promise to make the best showing this coming October, the time for the dedicatory ceremonies of the Fair.

A large force of men have been busy as bees setting out shrubbery, herbaceous and nursery stock. The cold and backward spring and the tremendous downpour of rain have been very beneficial to the newly planted stuff. Besides it extended the season for this kind of work fully three weeks.

The rose garden in the center of the island is all planted, and all the stock looks very thrifty. In the collections which were sent from Europe are many varieties that have never been wintered out of doors successfully by local growers. Chief Thorpe proposes to give all these sorts a trial. The greatest care will be taken and the most approved modes of covering and protection against the effects of our treacherous winter and spring weather will be employed to insure success. The experiment will undoubtedly be a valuable one to all growers of roses, in this latitude particularly.

Mr. Ulrich, at the head of the landscape department, is making things hum around the park. All around the Horticultural and Woman's buildings the sodding is being done as fast as the ground is ready. The edges of the island sloping down to the waters of the lagoon are completed, and everything planted seems to thrive splendidly. Large clumps of lilacs planted last fall and early this spring are in full bloom. This department is also completing a set of greenhouses, eleven in number, which will be used for growing bedding stuff of every kind to be used for the ornamentation of the grounds outside of the precincts of the Horticultural Department proper.

Arizona has applied for 2,000 feet of space in Horticultural Hall and 5,000 feet of space outside, and proposes to make a magnificent display of her horticultural resources, mainly fruit. The exhibition will include a display of cacti and some of the specimens will be of gigantic size.

A decision of the Secretary of the Treasury that exhibits consumed or destroyed during the Fair shall be exempt from duty is of decided benefit to foreign exhibitors in the Horticultural Department, as so many of such exhibits will not be worth returning. If sold here the duty must be paid, but if destroyed or damaged so as not to be salable or worth returning they will be exempt.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

H. AUGUSTINE, Normal, Ill., president; Z. K. JEWETT, Sparta, Wis., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A. WHITNEY, Franklin Grove, Ill., treasurer. The Eighteenth annual meeting at Chicago, June, 1893.

The Atlanta Convention.

On to Atlanta was the word, and from all points of our country, near and far, to the "Gate City of the South" came the nurserymen, accompanied, many of them, by their wives, and friends in the horticultural line, assembling at the hospitable Kimball House on the evening of May 31, and the early morning of June 1. One had but to note the happy greetings and joyous reunions of those who were bound by the same fraternal ties and that close kinship of mutual interests, the "touch of nature that makes the whole world kin," to feel that the social features and advantages of such national gatherings are alone worth manyfold the journey, care, time and money bestowed upon them.

It will be impossible in one article to tell of all the good things said and done at the convention proper, and in excursions to all the many interesting horticultural points in the state, and which are not yet over, for even as we write upwards of 200 visitors are still "marching through Georgia," escorted by native sons proud to point out the progress and advantages of what is to-day the most enterprising and advanced of all the states of the Sunny South.

The first day's session, with about 250 members and visitors present, commenced promptly on time at 10 o'clock, June 1, in the Hall of the House of Representatives of the capitol, a building fully up in size, architecture and finishing with those of most of the other states of the union.

In the absence of President Van Lindley, of Pomona, N. C., who is traveling in Europe, Hon. N. H. Albaugh, of Tadmor, O., presided, and introduced Gov. G. W. Northen, known as the farmer governor, who in true southern style welcomed the visitors to the state, to its capitol and to the homes of his people, trusting that many would some day come to remain among them, as some of those present had already done. The mayor of Atlanta followed with facts and figures to prove the great progress of Atlanta, "the Chicago of the South." Hon. R. T. Nesbitt, Commissioner of Agriculture, and Prof. J. B. Hunnicutt, of the University of Georgia, also warmly welcomed the visitors and commended their mission. To these words of greeting President Albaugh responded in fitting terms, and, continuing, delivered the annual address to the Association, reviewing its work and its prospects for the future. Secretary C. A. Green, of Rochester, N. Y., presented his report as secretary, which, with the treasurer's report, gave proof of good condition and financial standing. The regular committees were then appointed, and for two days the work moved smoothly and rapidly along.

Among the good topics upon which papers were read and speeches made were the following: "Duty of American Nurserymen at the World's Fair," by Hon. N. H. Albaugh; "Fruit Tree Packages," G. J. Carpenter, Fairbury, Neb.; "Grading and Assorting Nursery Stock," W. F. Heikes, Huntsville, Ala.; "Interstate Shipment of Nursery Stock, with reference to the California Monopoly," Col. U. B. Pearsall, Fort Scott, Kan; "One Way of Preparing a Nursery Catalogue," J. Horace McFarland, Harrisburg, Pa.; "Who Makes the Most Money, Nursery-

men or Fruit Growers?" J. H. Hale, South Glastonbury, Conn.; "Suggestions to Nurserymen," Prof. P. J. Berckmans, Augusta, Ga.; "How to Eat Other People's Watermelons," W. L. Glessner, Americus, Ga.

The following report was unanimously adopted:

We, your committee, appointed upon the subject of the California quarantine laws, hereby respectfully recommend the passage of the following resolutions:

Resolved, That the secretary of this Association notify the president and secretary of the California State Board and other proper officers, that the people east of the Rocky mountains consider the present inspection laws of California a measure uncalled for and a great discrimination, and demand their prompt repeal.

Resolved, That in the event of a refusal to repeal such obnoxious laws, we pledge ourselves to make a united effort to have our several states pass strict inspection laws relative to the importation of green California fruits.

Resolved, That in the event of having to pass such laws, the executive committee be requested to employ a good attorney to draft a uniform law to be passed by the respective states east of the Rocky mountains, and one which shall be so framed by a schedule of fees as to be no expense upon the states. Respectfully,

U. B. PEARSALL, Chairman.
G. J. CARPENTER.

The following officers were elected for the ensuing year:

President—H. Augustine, Normal, Ill.

Vice-President—Z. K. Jewett, Sparta, Wis.

Secretary—C. A. Green, Rochester, N. Y.

Treasurer—N. A. Whitney, Franklin Grove, Ill.

The executive committee is composed of W. F. Heikes, Huntsville, Ala.; W. J. Peters, Troy, O., and B. S. Lake, Shenandoah, O.

Chicago was selected as the next place of meeting.

Mr. McFarland was appointed a committe of one to prepare a memorial asking that catalogues and circulars be sent through the mails as newspapers now are. That is—to be weighed in bulk and postage paid in cash, instead of affixing stamps.

Invitations were received to visit points of interest in all parts of the state. As a large number wished to see the already famous Fort Valley peach region, that was chosen as the first on the route program, so at 3:45 p.m., on June 2, 101 excursionists rolled southward on the Atlantic and Florida railroad, ticketed to Fort Valley, just 103 miles away.

But the story of what was seen here must wait till next week.

MORTIMER WHITEHEAD.

Trees and Shrubs in Bloom, June 3.

LILACS.—The varieties of common and Persian lilacs, also the early blooming species, are much past their best. Syringa Josikæa and S. villosa are the lilacs now in perfection; the first named has deep violet-purple flowers and long, slender panicles, and the last named shorter and more densely furnished clusters of rosy lilac blossoms. Josikæa is a species from Transylvania, and villosa a species from Northern China.

ROSES.—Rosa rugosa alba is one of the handsomest shrubs now in blossom; the red-flowered is also in bloom. Both should be grown as shrubs and not as we usually treat roses. Rosa alpina and its varieties, also Nutkana, Kamschatica, and a few other "wild" roses are in bloom; they are good enough for variety's sake, but not for select garden culture. Madame Georges Bruant, however, the hybrid between rugosa and a tea, and now in flower, either as a shrub or a garden rose is a gem in any collection. H. Ps. are almost ready to burst open.

THE SMOKE TREE (Rhus Cotinus, or to be more correct let us say Cotinus Cotinus,) is beginning to flower. But this is nothing, as the blossoms have no ornamental merit; it is in the light, feathery "smoke" that comes later we get the horticultural value of the plant.

RHUS COTINOIDES, or, I should say, Cotinus Americanus, however, is also in bloom with us. This is the first time this rare American has flowered here, and I have never heard of its blooming elsewhere in cultivation. Have you? Its flowers much resemble those of the Venetian sumach, but, if anything, the panicles are more slender. In habit the Venetian sumach is more of a bush than a tree, whereas the American species is more of a tree than a bush.

JAPANESE MAGNOLIAS.—With the exception of a few scattered flowers of the hybrid magnolias, as Soulangeana, Lenne, speciosa, and the like, those that come into bloom before the leaves appear are all past, and now is the heyday of that set of Japanese species, to-wit: hypoleuca, Watsoni and parviflora, which for beauty, refinement and fragrance are the charm of our gardens to-day. Their flowers appear at the same time, or a few days after, the foliage.

MAGNOLIA HYPOLEUCA is a timber tree indigenous to the mountains of Jesso. It belongs to the large-leaved group like our tripetala and macrophylla, and has fine, large, creamy-white, powerfully fragrant blossoms closely set into a mat of large foliage. Our specimen to-day has about 20 open flowers on it.

MAGNOLIA WATSONI.—A magnificent species from Gio Kuse. It grows to be a small tree, but begins blooming when only a foot or two high. Its flowers are creamy white, almost globular before they open, and saucer shaped and 5 to 6 inches across when expanded. A broad band of blood-red filaments surrounding the base of the pistil adds conspicuously to the beauty of the open blossom. This plant has been grown in American gardens for some 20 years, and at Dosoris for over a dozen, and it has grown and flourished with us and blooms abundantly here every year. We called it parviflora because we knew no better. In the Japanese gardens at the Paris Exhibition in 1889 the English people discovered it, bought it and brought it over to their botanical garden at Kew, where it flowered for the first time the next year (1890), and was found to be a new species. Then, in the *Botanical Magazine* for February following (1891), Sir Joseph Hooker named it Magnolia Watsoni, after one of the gardeners at Kew. Oh, what a smart lot we American horticulturists are! Can it be that our botanists, as well as gardeners, are like Bailey's parrot?

MAGNOLIA PARVIFLORA.—What a lovely little gem this is to be sure. The plant makes a small, spreading shrub. The flowers are 3 inches across, nodding and snow white, with a broad band of bright carmine filaments around the pistil cone. But they are only moderately fragrant. It comes from the Oyama Mountains, takes kindly to cultivation, and blooms abundantly with us every year. Provisionally it was called parviflora minor, to distinguish it from what is now called Watsoni, but I always insisted that they were specifically distinct.

AMONG AMERICAN MAGNOLIAS the large-leaved tripetala, whose white flowers smell like new-baked bread, is in full bloom, the magnificent macrophylla opening, the fragrant Fraseri on the wane, the yellow-ish cordata past its best, and the green acuminata in fair condition still but not worth noticing. Glauca and Thompsoni come in later, so does grandiflora, which is barely hardy here. The tulip tree has not opened its flowers yet.

VIBURNUMS.—Reticulatum is past, it was very fine. V. Lentago, a native small tree with large pear-tree-like leaves and cymes of white flowers, is now in its prime. V. pubescens, a small, upright inclined, bushy shrub, and also a native, has small cymes of pretty, white flowers; it is a plant we should see oftener. The common cranberry bush, V. Opulus, is a large shrub we should plant more of, for not only are its ample white cymes now very attractive, but from late summer on these flowers are succeeded by a crop of glossy crimson fruit that are more ornamental than the blossoms. And the plant is very hardy. Of the Chinese V. macrocephalum we have two forms, one with broad, flat cymes of flowers, of which a few scattered around the outer edge only are sterile, and the inner ones perfect, this variety is called Keteleeri; that known as macrocephalum proper has snowball heads of sterile flowers.

PRUNUS SEROTINA, our wild bird cherry, is in splendid bloom everywhere in wood and lane, as well as cultivation. Padus, Virginiana, demissa, and others, are about past.

CORNUS ALTERNIFOLIUS along the roadsides and margins of woods are conspicuously pretty little trees just now because of their wealth of umbels of white flowers spread over their flattened branches.

THE YELLOW LOCUST is also in bloom. Nothwithstanding their size and profusion, their clusters of fragrant white flowers have no great mark among the trees. The trees themselves are tall and naked or scraggily branched, and were it not for the grateful atmosphere and falling petals to remind us of the floral clusters overhead, our eyes would seldom be attracted thither.

THE ROSE ACACIA, on the other hand, is a beautiful shrub. Its limbs are slender and scrawly, but so full of large, rosy pea flowers as to often be weighted near to the ground by them. A variety we have called grandiflora is considerably better than the type.

LABURNUMS were splendid but now on the wane. Waterer's is the longest racemed of the yellow ones, and, I imagine, the best. The purple-flowered one, although it does not appeal to our fancy of "Laburnum's drooping gold," is nevertheless a very desirable kind. The one known as autumnalis blooms full at this time, and, so it is said (but ours forgets itself sometimes), more or less in fall.

MEDLARS are fruit trees, but we grow them for their fine foliage and large, white flowers, now so pretty. They bear fruit, too, but such fruit. No, no, the small boy will pass it by indignantly.

SYMPLOCOS PANICULATUS, or cratægifolius, is a little known but much deserving shrub from Japan. About the end of May its branchlets are a fluffy mass of little panicles of small, white flowers. Its greatest beauty, however, is said to be in the copious crop of ultramarine blue berries that it bears later on. Now, while our plants are thrifty and bloom profusely every year, they forget all about the berry business! Still, we don't despair.

TAMARIX AFRICANUS is about past, and we have begun cutting it back. Now, we have another species (am sure it is) in good growth and leafage and bursting

into bloom. What it is I do not yet know. Now, please don't suggest any of the dozen names on the tip of your tongue, it is the confusion among them that has already befuddled me so.

DEUTZIA GRACILIS is in perfection. D. parviflora is, too, or, it may be, just a little past its best. This Deutzia parviflora is a beautiful, quite hardy species from Northern China, and not yet common in gardens. In habit of growth, and the way in which its corymbs of open, pretty, white flowers are spread along the stiff, upright stems, the plant is quite suggestive of some spiræas.

LONICERA ALBERTII.—Ten to twelve years ago we called it L. hispida. It is a very dense, ingrowing, slender-stemmed, pendulous shrub that cushions itself upon the ground, and spreads by underground stems most like couch grass. Its leaves are small, narrow, glaucous, and very numerous, and just now it is covered with deliciously fragrant, rosy, lilac flowers. Mr. B. M. Watson, Mr. Warren Manning, and others in Massachusetts, tell me it likes a light, sandy or gravelly soil with them, but our plants thrive better in good ground and an open situation, than in poor ground, and they pine to death in the shade. I've tried them in all these situations. It is a native of the mountains of Eastern Turkestan.

STYRAX OBASSIA.—No wonder Mrs. Berger raves about its beauty! A small tree from Japan, quite hardy with us, and now in great beauty. It is of upright habit, and bears large linden-like foliage. Just now from leaf axils of its lateral branches appear long straight racemes containing 13 to 20 pure white fragrant blossoms with the yellow anthered stamens shown conspicuously within them.

CEANOTHUS OVALIS, a western little shrub, about 2 feet high, is now a perfect cushion of terminal umbels of little, white flowers. It is a very pretty plant, and so, too, is the form called multiflora. C. Americana, the species so common in the eastern states, won't be in bloom for several days yet. Gloire de Versailles and several others of the beautiful varieties of the European nurseries have not proven hardy with us.

BROOMS.—We have a large assortment of these in bloom now, but only a few of them are hardy with us. The wild, yellow broom of Europe is the gayest yellow-flowering plant in our grounds to-day. Pity it kills so much in winter. We have whitish-yellow, and double-flowered varieties of it, but they are inferior to the type. The variety Andreanus, however, is one of the handsomest and most striking flowering shrubs one can grow, the maroon of the inner petals contrasts so strongly with the bright yellow of the outer ones. *Sub rosa*, try it as a pot plant. Cytisus albus, and C. purpureus worked standard high on laburnum, are hardy, and have been in bloom since 10 or 12 days. C. nigricans, a very handsome little shrub from Europe and quite hardy with us, is now opening its bright yellow flowers. Working this species on laburnums destroys its beauty, it is always prettiest on its own roots.

SPIRÆAS.—Let me candidly say, I would tell you more about them if I only dared, for several of them come and go that I have to pass in silence, because I don't know what they are. Yes, yes, we have names for all of them, several names sometimes, but the confusion in the nomenclature is deplorable. However, of the following we are sure enough: S. Can-

[CONCLUDED ON PAGE 1012.]

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EVERY TIME AT
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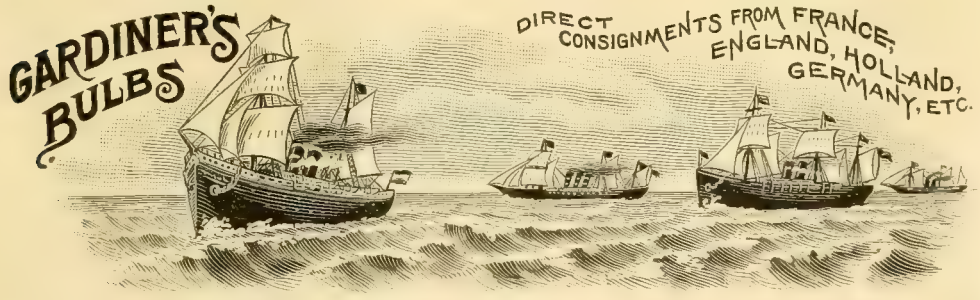
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Brides, Mme. Cusin, Cath. Mermet, Mme. Hoste, Niphetos, Papa Gontier, Perles, Mme. de Watteville, Waban.

The Climbing Perle des Jardins and Climbing Niphetos, $12 per 100, 2½-in. pots.

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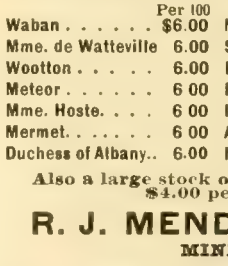
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Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a German gardener, 28 years of age, single, well posted in all kinds of warm and cold house culture, palms, cut flowers, decorations of any kind; also a long experience in laying out lawns and gardens. Best of references. Address Z, Young Men's Christian Association, Larrabee St., Chicago, Ill.

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FOR SALE—Greenhouses and stock. For particulars, address W. S. SAWYER & Co., Lincoln, Neb.

FOR SALE—Only greenhouse establishment in growing western city of 15,000 inhabitants; 3,000 feet of glass; large stock. Address THORP, Florist, Trinidad, Colorado.

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Notice is hereby given that the partnership heretofore existing between Julius Niednagel and Wm. Halbrooks, under the firm name of J. D Carmody Co., is dissolved. All outstanding debts in favor of said firm are payable at the office, corner of Water and Chestnut streets. Persons having claims against the firm will present them at once for settlement.

June 1, 1892. JULIUS NIEDNAGEL, WM. HALBROOKS.

toniensis (Reevesiana), single and double are at their best. They got badly winter-killed. The arching sprays of S. trilobata are a snowbank in the front of the shrubberies, and Van Houttei a bolder and finer flowered variety of it is in prime condition. Both are very hardy. S chamædrifolia has hemispherical corymbs of white flowers. S. corymbosa, a much smaller shrub, a native of the Alleghanies, has terminal corymbs and glaucous leaves. Physocarpus Amurensis (used to be called spiræa), a rank growing bush of the ninebark (opulifolia) order is pretty well done blooming, whereas the ninebark hasn't yet come in. But, except for shrubberies in parks and large gardens, I don't think either of these shrubs are worth growing, we have so many other nice things when they are in bloom.

THE COLUTEAS have begun to display their yellow or tawny pea flowers which they will bear in much abundance for a few weeks to come, and more or less for some months. They suffered in winter. And I have often known them to die back considerably in summer.

THE CHINESE FRINGE TREE is very fine still, and the American is rapidly changing from green to white.

RHODODENDRONS are in fine bloom but barely at their best. Where exposed they suffered in winter more than usual. Hot, dry, windy weather preys upon the vitality of the blossoms.

GHENT AZALEAS are in their gayest state. They love moist ground, a surface mulch, and protection from sweeping winds from any direction.

SNOWBALLS are grand. All are now in perfection, with the American beginning to drop a little. Good ground and good feeding tell plainly in larger snowballs, and in Opulus, especially, the size of those on the lusty young wood is very much greater than on the scraggy twigs.

CALYCANTHUS, or Sweet Shrub, is in fine form, kerrias past their best, mountain ash over, flowering ash waning, and snowdrop trees, except diptera which is lovely, almost past. Weigelias are in all their glory, hawthorns getting old, and Tartarian bush-honeysuckles aiming for fruit.

WM. FALCONER.

Glen Cove, Long Island.

WE acknowledge the receipt of several handsome blooms of Cattleya Mossiæ from Mr. H. W. Buckbee, Rockford, Ill. Mr. Buckbee is meeting with considerable success in the growing of orchids for cut flowers and says he finds that the people appreciate them and are willing to pay a good price for handsome flowers.

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Cut Flowers.

BOSTON, June 7.

Roses	1.00@ 4 00
" Jacqs	8.00@15 00
Carnations	.50@ 1 00
Valley, outdoor	50@ 1.00
Valley	4.00
Double Poeticus	2 00
Harrisii lilies	8 00@10 00
Callas	8 00@10.00
Sweet peas	.50@ .75
Stocks	2.00
Coreopsis	1.00
Spiræa	2 00
Pæonies	4 00
Rhododendrons	3.00@ 4 00
Smilax	12 00@15 00
Adiantum	1 00
Asparagus	50.00

NEW YORK, June 7.

Roses	.50@ 2 00
Carnations	50@ 1 00
Valley	4.00@ 6 00
Harrisii	4 00@ 6.00
Callas	6.00@ 8 00
Sweet peas	.50@ .75
Mignonette	1.00@ 2.00
Smilax	10.00@20.00
Adiantums	1.00

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Roses, Brunners	15.00@20 00
" Beauties, Laings	15 00@20.00
" Luizets	20 00@25.00
" Mermets, Brides	5.00
" La France, Albany	5.00
" Jacqs	6.00@10.00
" Cusins, Watteville	4 00
" Perles, Niphetos, Gontiers	3.00
Carnations	1 00@ 1.25
Sweet peas	1.00
Harrisii	6.00@10.00
Smilax	20.00
Adiantums	1.00
Valley	5 00
Cornflower	1.00

CHICAGO, June 7.

Roses, Perle, Niphetos, Gontier	3.00@ 4 00
" Bon Silenes	2.00
" Mermets, La France, Hoste	3 00@ 5.00
" Bennetts, Dukes, Woottons	4.00@ 6 00
" Albany, Bride	4 00@ 6.00
" Am. Beauties	12.00@15.00
" Jacq	6.00@10.00
Carnations, long	1.00@ 1.50
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The Seed Trade.

AM. SEED TRADE ASSOCIATION.

F. BARTELDES, Lawrence, Kan., president; A. L. DON, New York, secretary and treasurer. The tenth annual meeting at Hartford, Conn., June 14—16. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

FOR THE WESTERN SEEDSMEN.—Arrangements have been made with the M. C. R. R. to take their train, "The North Shore Limited," which leaves Chicago at 12:20 Noon Sunday June 12, arriving in Hartford at 5:35 Monday P. M. with but one change at Springfield, Mass. This train reaches Detroit at 7:20 P. M., Suspension Bridge 2 A. M., Buffalo 4 A. M., (eastern time), Rochester 5:50 A. M., Albany 11:50 A. M. Ample room has been arranged for in a special sleeping car for this party. Members are asked to notify J. C. Vaughan as early as possible, that their names may be put on the sleeping car diagram. The fare from Chicago to Hartford is $20.50. From Columbus via C. H. V. & T. leaving there at 10:10 A. M. Sunday, reach Detroit at 6:20 P. M. Fare $20.29. From Dayton, via Detroit, fare $17.75, from Detroit, fare $15.79, from Cincinnati, via Detroit, $18.50. So far 9 or 10 western members have signified their intention of meeting at Chicago and taking the train mentioned above. An entire car has been reserved until June 10, giving opportunity for all to be heard from.

FISHKILL ON HUDSON N. Y.—The wife of Mr. Benjamin Hammond died May 28. She was very highly regarded by the people in general and the funeral was a very large one. The large number in the trade who know and admire Mr. Hammond will join in the general expressions of sympathy for him and his three daughters in their bereavement.

SLIGHT DAMAGE is reported to have been done the pea crops in northern New York and Canada by the wet weather, but definite information is yet difficult to obtain.

NEBRASKA seed growers report little if any damage to crops as yet though some fears are entertained regarding some late varieties of sweet corn.

MR. WILLIAM KELWAY of Longport, England, visited the World's Fair Grounds on his second trip to America.

CANNA MME. CROZY in bloom sold for $1.10 to $1.20 at auction in N. Y. City, May 27.

AMONG recent visitors to Chicago were Wm. F. Dreer and H. W. Buckbee.

Orchids. Orchids.

Surplus stock, in 10 showily flowered, easily grown varieties. Strong, clean.

100 PLANTS FOR $25.

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Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

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150 Adiantum, assorted, 4-inch pots, strong, at $10 00 per 100.
50 Palms—Chamærops, 4 and 5-inch, at $15.

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IMPERIAL FAVORITE, deep golden yellow.
ORIENTAL BEAUTY, white shaded pink; **hairy,** $1.50 each.
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SAN JOAQUIN, largest anemone variety.
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KING OF OSTRICH PLUMES, chrome yellow shaded buff; **hairy.**
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GOLDEN OSTRICH PLUME, clear golden yellow; **hairy.**

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IN BUD AND BLOOM.

	Per 100	Per 1000
Mammoths—Large fine flowers	$3 00	$25 00
General Collection—Good collection	2.50	22.00

Roses. Fine, healthy stock from 2½-inch pots. Waban, Pearl, Mermet, Mme. Hoste, Sunset, Mme. Cusin, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, S. d'un Ami... 5.00 45.00
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Golden Self Blanching, White Plume, Golden Heart Crawford's Half Dwarf, fine plants, about 2 to 4 inches high, $2.00 per 1000.

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Verschaffeltii, Rainbow and other dark varieties from 3-inch pots, $5 00 per 100.

COLEUS (ROOTED CUTTINGS.)

Mixed lot of 5 principal varieties, light and dark, $5.00 per 1.00. Terms: Cash with order.

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2½-inch pots, 25 leading sorts for cut flowers, $3 per 100; $25 per 1000.

CYCLAMEN PERSICUM GIGANTEUM, assorted colors, 2½-inch, $6.00 per 100

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Buffalo.

The first two weeks of June is the plantman's harvest in Buffalo, and it is almost more, for a few of the heaviest growers are about driven crazy. The writer, for one, has not been sane since Decoration Day. It really is an awful rush, and the extraordinary cold and wet weather of last month, right up to June 1, left everything to be done now. I see no falling off in the business before us, and as there are several thousand new homes this year, all wanting a few plants, it is likely there will be no surplus stock left in town by July 1.

Driving by the aristocratic houses of Mr. C. F. Christenson last week, I made a rush through them back to his office, where he keeps something else besides a welcome. I found his stock of bedding and market plants as fine as could be possibly grown. Christ. says he expects to fill flower beds and boxes till the 1st of August.

We met J. H. Rebstock on the street, but he was almost too busy to be civil. He has had this spring a very fine lot of pink and blue hydrangeas that have sold well.

W. Belsey reports that there is no trouble to sell, but quite a job to get the orders out fast enough. Our Washington Street Market is a great show of plants and much good stuff among it. What a difference between the flower market of now and 10 years ago! And they get good, fair prices too. The patrician as well as plebian, all patronize the market. There is a prevailing idea that plants retail cheaper at the markets than at the greenhouses, but it's a fallacy, and for equal quality the greenhouses are fully as cheap.

Trade among the store men was quite good last week and flowers very plentiful. The first week of June we had lots of weddings and all of them called for more or less of decorations. G. S.

COLEUS.

From 2 and 2¼-inch pots.

$1.60 per 100. $13.00 per 1000.

VERSCHAFFELTII, HERO,
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GLORY OF AUTUMN, J. KANE.

HENDERSON'S FIRE CREST, $3.00 per 100.
WATER HYACINTHS, - 75 cts. per dozen.

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RHODODENDRONS, SHRUBS, Etc.

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UNITED STATES NURSERIES. SHORT HILLS, N. J.

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AS GOOD AS THE BEST, AND JUST A TRIFLE BETTER.

That is what my customers say, and they are in all parts of the United States and Canada—Maine to California, and Montreal to the Gulf of Mexico.

If care and attention will do it, they will be just a trifle better every season; quality is the first consideration, price the second, as an inferior strain of Pansies is dear at any price.

With superior facilities for handling trade and prompt attention to all communications I will make it a pleasure for you to deal with me and would respectfully solicit a trial order.

Good stocky plants from seed beds ready August 20th and after, at 75 cents per 100; $5.00 per 1000.

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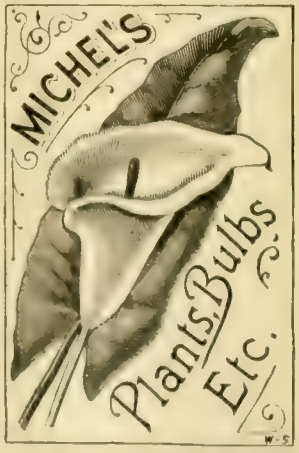
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OUR CUT FLOWER BUSINESS

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	Per 100
Tuberous Begonias, from the finest European collections	$ 5.00
Clematis, pot grown, 8-inch pots	40.00
Rose, American Beauty, splendid clean young stock	8.00
Fuchsias, all the standard sorts ready for spring sales, 4-inch	8.00
Latania Borbonica, we also have more of this elegant palm than we need and will sell a few 5 and 6-in. stuff in fine condi ion	100.00

Cut Flowers.

For the balance of this month we offer

ROSES—Brides and Mermets	3 00
" La France	5.00
" American Beauty	8.00
Carnations—Garfield, long	1.50
" Garfield, short	1.00
" Hinze's White, long	1.50
" Hinze's White, short	1.00
Smilax—Good, clean, heavy stock	15 00

Bear in mind this stock is all grown on the place and handled but once. Cut flower buyers know the importance of this Stock guaranteed A1. No charge for packing.

ADIANTUM CAPILLUS VENERIS—The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
3rd. It requires no season of rest.
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Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it has many aliases. **Price, strong plants, $8 per 100.**

Owing to the heavy demand, our stock of this most desirable Fern, ready for immediate shipment, is getting low. In order to accommodate those who wish to make plantings later in the season, we will book orders now for delivery any time till July 1st. This will give florists who are now busy with their spring work an opportunity to secure their stock and have it delivered at a time when they can take care of it.

JOHN IRVINE CO.,
BAY CITY, MICH.

CYPRESS GREEN HOUSE MATERIAL

CLEAR CYPRESS SASH BARS

HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
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D. H. ROBERTS,
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NATURAL GAS MADE GLASS
for Rose Houses, Conservatories, etc., etc.
Our glass received the highest award at the Boston Convention of the S. A. F.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

NEW CARNATIONS for 1893.

Ten extra fine new varieties, Seedlings of 1890; strong, healthy growers; constant free bloomers. Large flowers on long, strong stems. Never have burst their calyx. ***READY FOR DELIVERY FEBRUARY 1st, 1893.***

PRICE, $10.00 PER 100; $75.00 PER 1000.

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Cleveland.

Decoration Day was bright and beautiful but oh what weather we did have the twenty nine days preceding. There was hail, wind and rain and the latter we had with us every day except one in some form or another. The consequence was flowers were very scarce—and not a few orders were refused. Outdoor flowers were very scarce; even Snowballs were not fully out; they are an old standby for such occasions and there was nothing to take their place. Lilac was just over and not a peony showing color. So the greenhouses were called on for everything fit to cut. We know of one grower who had his men stationed in his rose houses and as soon as a bud showed color it was cut and rushed off to his city store. In other years there has been Mountain Laurel shipped in here from Maryland and there is nothing more desirable for making up designs and baskets for the cemetery, as the flowers and foliage work in very nicely with other flowers. But we suppose they have the same backward season in the "Sunny South" as we have up here on the shores of Lake Erie, for the laurel was not in bloom.

There was more call for blooming plants than usual, especially by the school children who buy flowers to donate to the G. A. R. Committee on Decorations. There was a large demand for made up designs and loose flower from florists out of town and as there were several large funerals on Saturday the florists were generally cleaned out of salable stock. There were a few daffodils and indoor tulips in the market. L. F. D.

MR. C. THURSTON calls our attention to an error in the notes on page 944 under the head of Paterson N. J. and says: "Thurston & Sceery, of which firm I am a member, are located at 91 Van Houten St. and do not own anything outside of that to my knowledge. The greenhouses belong to C. Thurston and are located at Ridgewood and at 1 to 15 Totowa Ave., Paterson. The former contains over 11,000 feet of glass and the latter about 10,000."

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The past week has been one of unusual activity among the florists. Stock has been good and prices stiff. Every one seems to be satisfied with the condition of the business. Flowers were used in profusion Decoration Day. Graduating exercises and weddings are calling for large quantities of flowers. Some of the designs are novel and striking.

A committee consisting of Hon. Chas. Garfield, Professors J. W. Beal and L. R. Taft, representing the Michigan Agricultural College, recently spent several days in this city studying the planting of the Missouri Botanical Garden and the various parks. The college has in its campus about one hundred acres on which are now growing many fine trees and some are of the forest primeval. Prof. Taft intends to plant on the grounds a large number of species of hardy shrubs both native and exotic. This is a step in the right direction, as it will add to the beauty of the grounds besides giving students and visitors an opportunity to study the habits of the various species.

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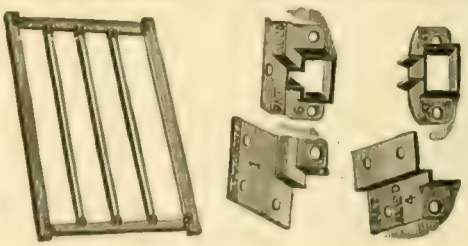
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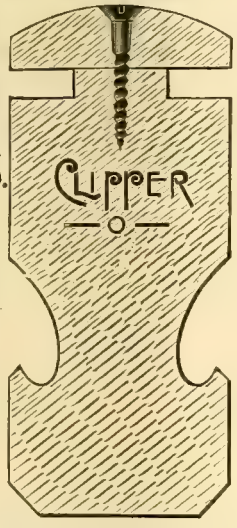
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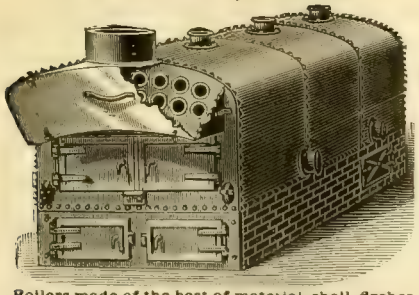
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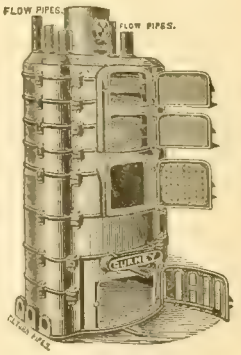
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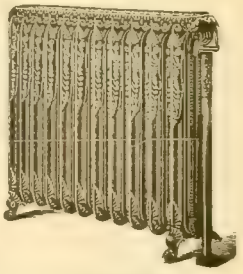
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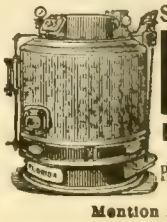
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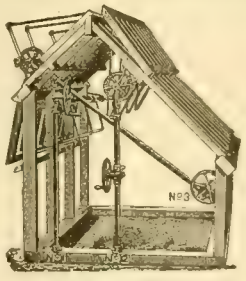
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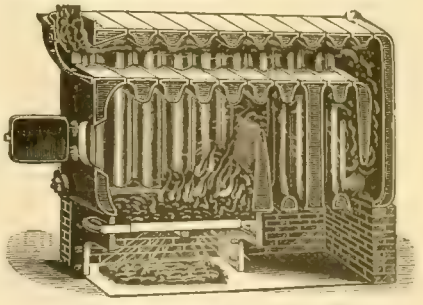


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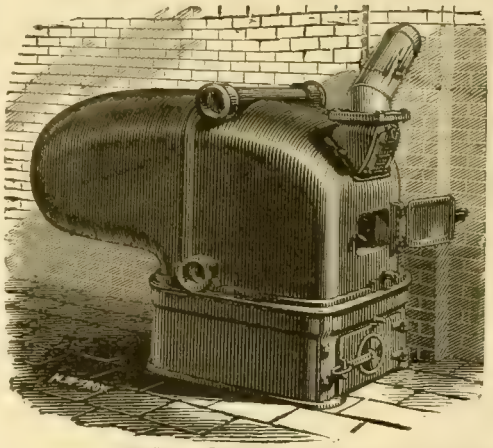
STOUGHTON, MASS. —J. H. French, florist, has filed a petition in insolvency.

POUGHKEEPSIE, N. Y. — The Vassar Hospital is to have a fine range of glass added. Thos. W. Weathered's Sons have the contract.

HOLYOKE, MASS.—Elliot Shaw, eldest son of E. D. Shaw the florist, was run over and killed by the cars at Northampton on June 1.

LACROSSE WIS.—Business good. Paul Zoellner, gardener in charge of the Oak Grove greenhouses, has made a great success of summering azaleas, a full report of which will appear later. Tuber[illegible] begonias in 3-inch pots in bloo[illegible] sell for $1. each.

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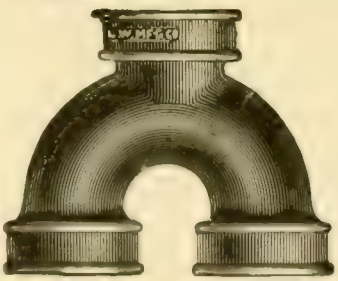


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THE AMERICAN FLORIST



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Vol. VII. **CHICAGO AND NEW YORK, JUNE 16, 1892.** **No. 211**

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KANSAS CITY.—Newell & Kidd have opened a second store at 1001 Walnut street, which is very nicely fitted up. John Schneider has opened a stand in the Midland Hotel. R. S. Brown & Son are arranging to devote more space to cut flowers. The Probst Bros. Floral Co. is planning to put up more glass this summer.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

A FLORAL pair of stockings is the latest horror in designs originated by the "crape chaser."

Proper Names for Colors.

THE CATHERINE MERMET AND MADAME DE WATTEVILLE.

We have previously discussed the color tone of the daughter of Catherine Mermet, the Waban, and also that of the Mme. Gabriel Luizet. In considering the Mermet and Watteville roses, in this article, I have purposely selected them on account of their similarity in delicacy of color, and their strong contrast with each other in point of character.

In the case of the Mermet, we see the same diversity of tint which we found in the Waban, and in the Watteville we will recognize the same tone of pink which characterized the Luizet, added to a creamy color, which is distictively the Watteville's own. The latter is, in fact a bi-colored rose.

It is a simple matter to discriminate between the *characters* of two colors, if we will give those colors more than casual attention. Our great fault in the use of some general name for a color, lies in the fact that the name in the majority of cases, does not carry the *character* of the color with it. Let me illustrate this idea with a few examples of very common color names.

"Peacock blue" means anything between a questionable green and a greenish blue. The green-blue color which we may find in the *side* tail feathers, is not as indefinite, it is unvarying and characteristic. The intense blue of the neck feathers is also unvarying, and is ultramarine in tone. Our general impression of abstract "Peacock blue" is entirely different from the color of these neck feathers. We should therefore define specifically the "Peacock blue" or else let the term go.

When we say "the pink of the La France rose," we are absolutely definite, because we refer to a tone of color characteristic of that particular flower. The color of the Waban rose is also exactly specific, and one acquainted with its pink, knows just what color to think about when that term is used.

But what can be said about the abstract term "Lilac?" If we will closely examine some lilacs next May, we will see fully four or five colors about them, which do not convey to the mind a definite idea of one color tone.

The pale "Primrose yellow" is a perfectly expressed color tone, because the common pale English primrose that is familiar to us, does not appreciably vary in its color. The same is true of the term "Lemon Yellow." The skin of the lemon varies so slightly in its color tone, that the name "Lemon yellow" has a perfectly clear significance in our minds.

We should be careful therefore to use definite terms when we speak of colors, then their character will be clearer in our minds. Thus, when I say of the Waban Rose, that its pink is composite, and of the Watteville Rose, that it is bi-colored, I am at once giving my hearers the *characters* of the colors, which I may afterward describe in detail.

If we will look into the heart of the Mermet we will find an unmistakable scarlet pink there; if we glance into the Watteville beside it we will see an entirely different pink; it is purer in tone and more decided in character, notwithstanding the fact that the depth of cream color (at once assuming a greenish tone) surrounding the pink center might be reasonably expected to exert some compromising influence on the pink. But this is not the case, the Watteville will sustain her dual character and she does not appreciably blend her colors.

What, then, could be more diverse than the character of color in these two roses, which to a casual observer might pass for flowers possessing a similar delicate pink? In point of fact there is not one single element of color in the two which are alike.

In the Mermet there is a fusion of color; in the Watteville each color is distinct by itself. The Mermet's pink is yellowish, the Watteville's is almost pure. Here and there on the outer petals of the Mermet we may detect a trace of pure pink, and that pink has shown itself in quadruple force in the Waban, although again overshadowed by the influential yellow.

In a word, the Mermet's pink is yellowish, and that of the Watteville is *wedded* to a yellow, while it retains its color tone uncompromised.

In describing the colors of these two flowers I should say after a careful analysis of them:

1st. The Mermet possesses a most delicate pink, composite in character and yellowish in tone.

2nd. The foliage partakes of the same character of diversity and is yellowish.

3rd. The yellow in the pink is strongest at the base of the petal and the purer pink is directly on the edge of it.

4th. The Watteville is dual in color character, the pink almost pure by itself and the creamy yellow tone of two thirds of the petal is distinctly unaffected by the pink.

5th. The Watteville's foliage is yellow green and decided in character, never blending in tone.

No two flowers could be so much alike and yet so different without attracting the attention of one who delights in color effects. Under artificial light either rose assumes a glowing quiet character of pink, and the individualities of each are in a great measure modified by yellow light. These two flowers ought never to come in contact with each other; something of subtle delicacy will be lost in both if they do.

F. SCHUYLER MATHEWS.

Bits of Bedding Seen Lately.

This has been such a rushing season for the bedding trade that it seems as it everything usable had been used, provided the plants were good. It is noticeable, that while a tremendous quantity of ivy geraniums is used, it is all the fine, double-flowered variety; the old-fashioned single one is quite out of the running.

Centaurea, which is always popular for edging, has not been very plentiful this season; its strong contrast with scarlet geraniums is admired by many.

There seems a stronger taste for bold effects in planting, as shown by the demand for plants in the subtropical class. Some fine effects are noted where Arundo donax variegata is combined with dark foliaged cannas; this striped reed is an extremely handsome thing, and easily managed, being propagated without any trouble in shallow water. It does not seem to become very common. Later in the year, one of the handsomest beds imaginable is formed by planting a large clump of the arundo, with a wide border of scarlet salvia, and it also groups well with small, dark-leaved Japanese maples.

Where permanent grouping is desired, the variegated eulalia shows well in the vicinity of dark shrubs. This noble grass is one of the finest ornaments of the permanent garden, and in any locality where it may be seen and admired there is a rapid increase in its use. We do not see many ornamental grasses used here, though both eulalia and erianthus make a handsome variation in planting.

Crotons never become common in bedding, but every year we see them used for this purpose, giving a grand effect. A croton bed in front of Delmonico's, in New York, gives promise of a fine show this summer. They look best in a bed by themselves, without the distractions of other plants. The acalyphas make a fine showing in a sunny subtropical bed. A fine combination is the use of acalypha with Lasiandra macrantha, a beautiful melastomaceous plant, with vivid Tyrian-blue flowers. Although a hot-house plant, the lasiandra does well outside during a hot summer, and the showy flowers and strong alternate leaves are very unusual in appearance.

In a shady bed we see a fine appearance attained by the use of fancy caladiums and variegated aspidistra, with a background of palms. This will be a satisfactory arrangement in a place too shady for flowering plants. Ferns ought to be used a good deal more than they are; the writer cannot recall, in a very wide circle of acquaintance, a single amateur with an out-door fernery worth noting.

Erythrina crista-galli, or coral plant, is an extremely showy thing for bedding, though not very often seen; it has flowers like a scarlet parrot's beak. Is looks very well in a canna border—it grows about the height of the dwarf cannas. A border noted, had a central line of cannas and arundo, and next to this a line of erythrinas, finished by a border of dark coleus.

Impatiens sultana has proved an attraction in bedding, as it flowers so profusely, and, when well grown, has a very neat appearance. A pretty little round bed had a center of Dracena indivisa, the remainder being filled with impatiens, with a close border of centaurea.

As a flowering border plant, or filling for a flat bed, very few things excel our old friend the verbena, and through all the changes in public taste it continues to hold favor. When the plants are pinched back through the earlier part of the season, and then loosely pegged down, so that they appear as if trailing, they form a luxuriant mat of bloom, as different as possible from the spindle-shanked little plants one so often sees.

Another old acquaintance, and a very showy one, is Gazania splendens, with its deep orange flowers. However, although seen occasionally in borders it is most effective in window boxes, or baskets, where its trailing branches, bearing deep green leaves, white underneath, show off better than in a bed.

Quite a number of echeverias are noted towards the end of the planting season; whether it is that they are a last resort one cannot say, but they have not been in high favor for some time. E. secunda glauca, surrounding a bed of scarlet geraniums, was certainly pretty, while the darker E. metallica was a good contrast with silvery variegated geraniums. So much of the effect in bedding depends on the way it is done; taste in combination is quite as necessary as good plants.

EMILY LOUISE TAPLIN.

Boston.

RHODODENDRON SHOW MASS. HORT. SOCIETY.

Owing to the lateness of the season the annual rhododendron show which was set for June 4 was postponed until June 10 and was held open for two days. It has been the custom to hold these shows open for a few hours only with admission free, but owing to their increasing popularity it was deemed wise to extend the time to two days and charge an admission fee.

Ordinarily one hall has sufficed for the entire show but the two spacious halls of the society were scarcely large enough to hold all the flowers which were brought for exhibition. The lower hall was devoted to miscellaneous exhibits while the upper one was almost entirely filled with rhododendrons and hardy azaleas, covering seven long tables arranged through the center of the hall with several smaller ones on either side, the stage being banked with hardy azaleas arranged with a background of dark maroon curtains, making a very beautiful feature of the exhibition.

With few exceptions the flowers in this hall were contributed by three gentlemen, Mr. H. H. Hunnewell, Mr. John L. Gardner and Mr. Francis Brown Hayes. The latter gentleman also contributed a beautiful sterling silver vase as a prize for 50 trusses of rhododendrons of not less than 12 hardy varieties. The vase was taken by John L. Gardner with a superb collection of trusses, conspicuous among which were the varieties Chancellor, Alex. Dancer, Everestianum, H. H. Hunnewell, Caracticus, Lord John Russell, James McIntosh, H. W. Sargent, Purpureum elegans, Sherwoodianum, Lady Claremont, Minnie, Purpureum grandiflorum, The Queen and Giganteum.

The first prize for 12 hardy varieties was won by Francis Brown Hayes. His varieties were roseum pictum, album grandiflorum, multi-maculatum, Lady Eleanor Catheart, album elegans, Caracticus, Everestianum, H. W. Sargent, roseum elegans, purpureum elegans, delicatissimum and Mrs. Grover Cleveland, a magnificent, pure white seedling raised by his gardener, Mr. James Comley.

The second prize went to John L. Gardner, whose varieties were H. W. Sargent, Everestianum, maculatum purpureum, Minnie, Sir Thomas Sebright, delicatissima, Miss Wheeler, James Bayless, roseum elegans, Caracticus, The Queen and Sherwoodianum.

Mr. O. B. Hadwin took first prize for six hardy varieties with Everestianum, roseum elegans, album elegans, azureum, album grandiflorum and Chas. Dickens.

Tender varieties were shown in great perfection and in varieties too numerous to mention, but suffice it to say that all previous attempts in this line were entirely eclipsed.

Hardy azaleas were exhibited much more extensively than ever before, but to be decidedly effective they must be cut in large branches with numerous trusses.

In the lower hall while the effect was not so striking there was perhaps more of general interest to the person with an ordinary garden or grounds. Here were displayed the collections of herbaceous plants, flowering trees and shrubs, German iris, pyrethrums, carnations, native plants and a great variety of seasonable things.

The prizes offered for monthly displays of herbaceous plants brings out many fine displays of these useful plants, thereby helping in no small degree to revive the taste for this once popular class.

The first prize in this class for 40 bottles was taken by N. T. Kidder, the second by Shady Hill Nursery Co., and the third by J. W. Manning.

German iris were shown by Mrs. A. D. Wood, John L. Gardner, J. W. Manning, Shady Hill Nursery Co., Dr. C. G. Weld and Bussey Institution. Hardy pyrethrums were well shown by Dr. C. G. Weld, Shady Hill Nursery Co., John L. Gardner, J. H. Woodford and Mrs. E. M. Gill.

Interesting displays of cut blooms of flowering trees and shrubs were made by N. T. Kidder, Joseph S. Fay and Jackson Dawson, a very noticeable feature of the latter's display of 145 species and varieties being 23 varieties of weigelias and the new Cytisus Andrium whose bright yellow pea shaped flowers have rich crimson wings.

The native flowers from Mrs. P. D. Richards and E. H. Hitchings are as usual of much interest to the public. Baskets of flowers were shown by Mrs. E. M. Gill and Mrs. A. D. Wood. Fine exhibits of cut flowers were sent in by many others, notably the collection of herbaceous plants from the Harvard Botanic Gardens and Rea Bros.; clematis from J. H. Woodford and Dr. C. G. Weld; and gloxinias from the latter; 13 varieties of carnations from H. K. Southworth; Iris Hispanica from Bussey Institution; pelargoniums from N. T. Kidder; tuberous begonias from E. W. Gilmore, with single blooms measuring over 5½ inches in diameter and double ones as large as hollyhocks. The beautiful tricolor beech was shown by Mr. T. C. Thurlow and attracted much attention. A very charming plant which is seldom seen is the pure white Clematis Montana, which was shown in elegant sprays by Mr. Joseph Clark.

The group of orchids sent by John L. Gardner was very attractive and included Cypripedium Haynoldianum, C. Dominianum, C. Lawrenceanum, Odontoglossum vexillarium, Cattleya Mendelli and Dendrobium Dalhouseanum.

From present appearances this show is destined to occupy in importance the place once held by the rose show which seems to be on the wane, not so much from a loss of love for the Queen of Flowers but from the loss by death of several of the large growers and contributors of roses and the increased interest shown in these beautiful flowers from our borders and shrubberies—these hardy



JAPANESE GARDENING. PLATE V. BLUFF GARDENS, YOKOHAMA.

things from which all may choose such as will suit their taste, their means or their convenience. A. H. F.

The Rose and Strawberry exhibition of the Mass. Hort. Society has been postponed to Wednesday and Thursday, June 22 and 23, and admission will be free.

Mr. Jos. Tailby who first sent out the Grace Wilder carnation has done more or less hybridizing for several years and has, like many others, been giving special attention to the subject recently. He is using some of the best of the hardy English Border Pinks in his crosses and already has some very promising results. One yellow variety of this year's production is grand, and, should it show up equally well in its second year it will create a sensation. A mottled red and yellow one now in its second season, of which Florence is one of the parents, is extremely prolific, resembling Florence very much in habit and general appearance of the plant. Mr. Tailby reports very large sales of the new dwarf calla.

New York.

A large orchid sale was held at R. B. Young's June 7, including a quantity of fine varieties. The great attraction of the sale was a large importation, consisting of 500 plants of Cypripedium Chamberlainianum. Many orders for these plants were received from distant buyers, some of them going as far as Canada. This plant is remarkable for the robust character of its fine foliage, as well as for the great variation it shows. The color of the foliage varies from pale to deep green, sometimes plain, sometimes handsomely marked. Its remarkable habit of bloom, showing as many as 30 flowers on a spike, adds to its distinct character. Another novelty offered at this sale was Dendrobium hybrid, Venus; it is a cross between D. nobile and D. Falconerii, combining the free flowering qualities of the former with the large and handsome bloom of Falconerii. A large quantity of Cattleya labiata was offered, also C. Mendelii, which we are told is now becoming rare in its native home.

A good many familiar faces were to be seen at the sale, among them Superintendent Hamilton, of Allegheny City, who was buying in congenial company with Robt. Grey, of Orange. Among amateurs present were Dr. Little and Mr. Barr, of Llewellyn Park, famous for his prize chrysanthemums, while some of the amateur bidders were Messrs. Newbold, Hicks Arnold and Roebling. The orchid craze in America has evidently passed from a fancy to a sound institution.

Another interesting auction at Young's was that of June 9, consisting of palms and ornamental plants from Philadelphia growers. It was essentially a trade sale and was largely attended by interested buyers. The plants were in fine condition and realized excellent prices throughout the list. At the present time these sales furnish a criterion for trade prices; the auctions have a good deal to do with regulating the wholesale business. Some large specimen palms at this sale were extremely fine, they were purchased for decorating purposes. Some handsome crotons were in the sale, many of them were bought for bedding use. Robert Craig and W. K. Harris were at the sale, receiving their usual warm welcome from their New York brethren.

The flower trade is as much in need of stiffening as last week; there is a dim, religious quietude about the wholesale stores which is unknown in the earlier months. It would be unfair to quote prices current, because there are none; people have to sell for what they can get. Carnations are a glut, indoor roses amount to very little, and outdoor Jacqueminots are plentiful. Many of them are very good, but as a rule the stems are too short and the retailers don't like to handle them. Other outdoor hybrids are generally poor, but some charming moss roses are in. Pink sweet peas appear the most plentiful of all flowers, both in the stores and on the streets. The Greeks were selling bunches of sweet peas for 10 cents—same sized bunch of Jacqs for 5 cents. Outdoor Jacqs must be cut before sunrise and sent in as early as possible before they have a chance to become overblown. A good many Marie Baumann are seen among the Jacqs, this is a fine outside rose. Business among the retailers is very quiet as many of their patrons are leaving town.

We have a flower market at last,

thanks to a number of energetic men in the trade, who have taken the matter into their own hands. For some years there has been a little informal market at "the Ferry," east 34th street, where most of the Long Island growers come into the city. However, there were many objectionable features connected with it; the only possible meeting place was a saloon and business was naturally conducted in a slip-shod way, as there was no one to manage it. So informal discussion on this subject led finally to a formal meeting with Alex Burns in the chair, where the question was finally settled. A site was settled on in the vicinity of the ferry and some preliminary rules adopted, so that the affair could be put in working order without delay. The present intention is to form a stock company with Messrs. I. Forstermann as president, W. Siebrecht as secretary, and Mr. Schultheis, of College Point, as treasurer. The market is divided into stalls, which are rented by the foot. Nearly all the large wholesalers show their interest in the scheme by taking stalls, and there is every prospect that a large volume of trade will be managed there. The market is at its busiest from six to half past seven in the morning. The gentlemen who have brought this enterprise forward deserve a great deal of praise for their energy; there is little doubt that the market will be favorably viewed by the retailers, and it should do a good deal towards equalizing prices.

The Flatbush growers speak very cheerfully of their bedding trade, but say it is now about over, for the reason that they are sold out. Everything has gone at satisfactory prices and they are now ready to prepare for another campaign.

The market dealers around Jefferson market seem to go in quite extensively for bedding vines; there is a lot of good stuff to be seen there.

Traendly, the florist, late of 225 Sixth avenue, has moved higher up the same street, where he has been showing some exceptional white pæonies.

Jas. B. Kidd, who has been employed for several years in the seed establishment of Thorburn & Co., and who has long been a prominent and popular representative of the seed interest in the east, has started for San Francisco where he is to take a prominent position in the Sherwood Hall Nursery Co. Before his departure, Mr. Kidd was presented with a gold watch as a testimonial of regard, by his fellow-seedsmen, Mr. J. Hossack making the presentation address.

The Greenwood Gardeners' and Florists' Employees Association held their third annual picnic at Schuetzen Park, Third avenue and Fiftieth street, June 9, and despite the inclement weather a large number participated in the festivities. The association is composed mainly of the employees of James Weir Jr. & Son. The firms of James Weir Jr. & Son, John Weir of Fulton street, and Fred Weir of Bay Ridge, contributed handsomely with various flowers, notable among which was a large floral horseshoe, presented to the association by James Weir Jr. & Son, which hung suspended from the musicians' gallery. Each lady and gentleman on entering the park was presented with a bouquet as a souvenir.

Do you want an alphabetical list of the roses in commerce in America, with the class, habit, date or introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

Philadelphia.

The meeting of the Florists' Club held June 7 was very well attended. In anticipation of the large number of persons who would be on hand to hear Mr. Longinette's paper the reading table was removed and the space filled with chairs. Thoughtful Dan.

Vice-President Ball opened the meeting but gave way in a short time to President Craig, who looked very swell in his dress suit. Hobnobing with the big bugs in Chicago must have made him a little vain, although he did not show it in his speech or manner.

Mr. Westcott, chairman of club house committee, made a very favorable report besides having a comfortable balance to turn in to the treasury.

Robert Crawford, of Eleventh street, was elected a member. All the store keepers are now within the fold. Mr. Crawford is a thoroughly practical man and his advent will strengthen the dealers and help them in their conflicts with their common foe, the growers.

The trip to Washington was discussed and the following gentlemen were appointed to attend to transportation and hotel accomodations: On transportation, Messrs. Westcott, Burton and Craig; on hotels, Messrs. Ball and Kift.

A letter was received from Mr. Kuyk, of Haarlem, Holland, offering a prize in the shape of a cup or medal to be competed for at the next spring meeting of the Pennsylvania Horticultural Society. The prize is offered for the best display of hyacinths. In his communication Mr. Kuyk called attention to the best varieties for forcing and gave a description of the way in which hyacinths were grown in Holland, and how difficult it was to get and propagate new varieties. The secretary was directed to thank Mr. Kuyk for his generous offer and request him to prepare a paper on hyacinths and other spring bulbs to be read before the club. His letter was referred to publication committee.

The decks now being cleared Mr. Chas. Longinette came forward with his paper on "How to conduct a retail cut flower store." From the size of the bundle it really looked as if it would take him all night to get through, but most of this turned out to be protection, to keep it from prying eyes so he said.

He was listened to quite attentively at first, but in his endeavors to make his points tell he became a little mixed. He said among the store fixtures necessary was an ice box for customers. This was regarded as a new departure by his hearers, who in their comments confused the essayist, until Mr. Westcott came to his relief and said that Charlie was all right, as Mr. Thorley, the greatest florist in the country, had a large ice box which he made so attractive that customers thought it quite a treat to get inside.

On its conclusion the thanks of the club was tendered the essayist and the paper given to publication committee.

John Burton had quite a narrow escape recently; he has sunk a new well to get a better supply of water and has put in a steam pump. In doing this the walls of the old well, some 5 or 6 feet distant, became weakened, but not knowing this Mr. Burton went down with an assistant to look at one of the valves of the old pump which was not working properly. Happening to look up he noticed some of the stones giving way and had barely time to get himself and assistant out, when about 10 feet of the wall fell in. It was a very narrow escape as they would undoubtedly both have been carried to the bottom.

It is hardly worth while to speak of business, for there is practically none to speak of. The roses coming in are very poor. La France, Albany and Guillot will now come to the front and stay there all summer. Carnations are fair; pæonies which have made quite a show for the last two weeks are done and this about winds up the large decorative flowers for the season, except possibly a few lingering hydrangeas.

Heron & Nesbit are about giving up their branch store on Columbia avenue; they have rented the greenhouses lately occupied by Lincoln Brown at 53rd and Girard avenue, in Hestonville. John Nesbit, of the firm, will have charge here and will grow palms, ferns and decorative plants for the Chestnut street store. We wish them success in their new venture. Lincoln Brown has entered the employ of John Gardiner & Co., seed merchants, and will go on the road with their goods.

K.

Baltimore.

To take the taste of the last bowling match out of his mouth, the scribe seeing that business was slack and the weather hot, concluded to try a little excursion of his own in a different direction from that taken by the bowling team. They went south to Washington, he went north to Cockeysville, a less euphonious, but, in this case, a more cheering suburb; and the inducement which marked out that particular one of the many charming towns in Baltimore county, was the desire to see the roses of Mr. Jno. J. Wight, who has the largest collection of varieties in the state, and is an amateur whose fine taste and practical skill is backed by ample means and abundant leisure.

His mansion is about two miles from the station, on a high hill, which is shaped like the back of a whale, if one could imagine a whale nearly a mile long, and is approached by an ascent so gentle that one does not appreciate the height until, from the spacious lawn, a panorama of rolling, verdant, beautiful country, stretching fifteen miles away to Baltimore, bursts upon the view; no narrow vista between hills or down a valley, but a clear sweep over all surroundings. For a few minutes, roses, bowling scores and all else was forgotten, while the eye drank in the full beauty of field and forest under a typical June sky; then, turning from the beauties of the distant view the beauties of things near at hand came out; the entire top of the hill was a long lawn, which was traversed by winding walks and dotted over with clumps of trees, every one of which had been selected and planted under the personal supervision of the owner; many of them, having been planted from thirty to thirty-five years, were large specimens, and every one a picture of vigorous health. Though not an architect and possibly a poor judge in the matter, the scribe must express his conviction that the house was the only house that would have suited the location. The library formed a wing stretching out from the main building towards the longer part of the hill and from the large windows on three sides of it and the wide veranda, views of ever changing beauty, far away and near at hand, may be enjoyed at all seasons.

Mr. Wight, who is at present confined to the house with rheumatism, sat on the porch and talked roses, talked trees, and hardy herbaceous things, until the regret at finding him unable to get about among



BAMBOOS, TOKIO, JAPAN.

his pets was forgotten in the pleasure of listening. "I planted all my own trees," said he, "because I can never get anyone to plant them right. My method, based on an observance of nature and costly experience, is to have a man with a pick, roughly pick out a shallow basin as wide as the roots of the young tree extend, then set the tree in this and fill around the roots until a slight mound is made with the good top soil, after the soil has settled completely the tree looks like one planted by nature." Whether the vigorous health of his trees is due to the manner of planting or not, certainly more perfect specimens would be hard to find.

Another thing that attracted attention was the innumerable small circular beds, about four feet in diameter, that were clustered and scattered along the walks where the lawn was free from trees, and all about the house, each containing some one variety of hardy herbaceous perennial of which class Mr. Wight is very fond. Anthemis tinctoria he pronounces the most brilliant and satisfactory of the lot, twelve plants of it in a four-foot circle forming a perfect hemisphere of glistening yellow flowers, from mid-June to September. His plants were just coming in bloom. Asked the reason for so many small beds, he said, "I find it much easier to keep varieties separate, and preserve names, by planting a small bed of each and making a plat of the whole, than by clumsy and unsightly labels. Then, again, in walking or riding around, at every turn something new strikes the eye."

Besides anthemis he was much struck with the value of Lychnis vespertina, which bears great quantities of double white flowers, like a large hardy pink.

Scabiosa caucasica, a beautiful blue flower as large as a silver dollar. Œnothera Missouriensis, blooms from June 1 to the end of September, clear yellow flowers, five inches in diameter.

Hardy pink, Mrs. Simpson, is another favorite, and so are tuberous begonias, though these last can hardly be classed with the others, which are all perfectly hardy; yet on account of their free blooming, from June till frost, they are allowed a place among the hardy things, and very fine they look.

Here and there among the other beds were half barrels sunk to the rim in the ground, with a plant of nymphæa or nelumbium, and Mr. W. is enthusiastic over them. One bucket of water per day, he says, will flush off all impurities and supply evaporation for each tub, and it is all the culture required during summer. He finds they do well in ordinary loam, well enriched with old manure. It would take too long to go over the place in detail, and the roses, which were the chief attraction, in anticipation, must be deferred till the next visit, as a sudden raid of multitudes of a slim buff colored beetle had ruined the bloom in a day.

Mr. Wight says that if restricted to one rose for open-air culture, that one would be Papa Gontier, for which no praise seems too high. He does not consider Wootton worth growing, and is not much more favorably impressed with White La France, but likes Waban, from which he gets two or three lots of bloom in a season.

The only fertilizer used, besides well-rotted manure, is finely ground bone, and the clean vigorous growth bears testimony to its efficacy.

The close of the day brought the interview to an end, and a walk around the lawn, from which, owing to the peculiar isolated position of the hill, an all-around view of from ten to fifteen miles can be had, concluded a very pleasant trip.

The exchange is generally glutted with flowers, and trade consists of spasmodic demands for funeral work, or commencements, with intervals of absolute stagnation. Even plants are going very slowly now, and the enterprising grower can soon be painting and glazing. MACK.

Buffalo.

The middle of June still finds lots of orders ahead among the plant growers, and from present appearances there is stock enough to supply all demands.

That ever useful subject the weather, deserves a special mention this time. After we had suffered with six weeks of rain, with an occasional fine day sandwiched in, the climax came last Thursday, when almost three inches of rain fell in two hours. The oldest resident remembers nothing like it. I have heard of no serious loss to any florist, and all are glad it did not come in the shape of half hail stones.

Adams & Nolan had an order for a floral canal boat, for a dead canaler, in the lower part of the city, and they tell me it was very amusing to see Mr. Adams delivering the floral emblem in a skiff, holding aloft the design, whose true element was causing so much trouble.

The roses that are coming in town, as well as those home grown, are very poor; not so much need this be the case if shade and an abundance of water be used. Among those whose whole time is occupied with the bedding-out business, there is some excuse just now for poor stock both roses and carnations, but for those who grow the above as a specialty there is no excuse. Carnations have been very abundant in Buffalo this past month and more sent in than could be profitably used.

There has been a fair amount of entertainments of late, but lilac and snowball have figured largely as decorative material, and can you blame them after many months of roses, carnations, tulips, valley, etc. They are glad to get something that really is refreshing, and as the florist usually supplies them there is a good living profit for him even in that "common stuff."

A drive yesterday through our beautiful park and also through our unequalled "Forest Lawn" cemetery convinced me that they never put on appearance more lovely. The groups of hardy shrubs, so well planted in many locations in our park, are now for size and condition, just about perfection. What a good thing they don't all flower at once.

In last week's FLORIST Miss Taplin has an interesting article on vines or climbing plants. We grow most all she mentions and besides have to grow many more. The true climbing plant, such as Cobea scandens or Pylogyne suavis there is only a limited sale for, but the trailing or drooping plants suitable for vases and veranda boxes, we have to grow in immense quantities. In fact before the season is out the vines are the scarcest articles in the market. The leading dozen vines or drooping plants used here are as follows. These are used for hanging baskets, vases and veranda boxes. I will place them in order as I estimate their value: Vinca, the variegated and Harrisonii, Abulilon Eclipse, Senecio (German ivy), Glecoma rotundifolia variegata, Lysimachia (money vine), ivy geraniums in several var., nasturtiums—a breed we have which droops just right, sweet alyssum—double, lobelias of the erinus type, lophospermum, maurandya, petunias—good singles are best and they will droop after a time. There is at least half a dozen more used but the above are the staple articles. I do not include cobea, solanum, English ivy or Pylogyne in this list as they are climbers and not fit to use in vases, etc.

Lawrence & Giddings had a very successful opening on Friday and Saturday last. They made a fine show, but had none too many flowers to go round among their many friends. G. S.

Chicago.

At the last meeting of the Florist Club the table was decorated by two handsome blooming plants of campanula, brought by Mr. Stromback, headgardener at Lincoln Park, and a vase of Malmaison carnation blooms, averaging four inches across, brought by Mr. Kirkham, of Maywood.

The campanulas were in six-inch pots, foliage perfect to the bottom, and masses of magnificent blooms. Mr. Stromback brought them to the meeting to substantiate by a visible example what he had claimed at the last meeting for the campanula as a pot plant. All the retail men present agreed that such plants would sell readily at $1 each, and the growers stated that at 50 cents each, in wholesale lots, there would be a good margin for the grower.

Regarding their culture Mr. Stromback said: Sow the seed now, prick the seedlings out into boxes when big enough to handle, and later plant outside in rows about fifteen inches apart, the plants about twelve inches apart in the rows. Before frost comes lift the plants, pot and keep over winter in a temperature of 45 to 50°, till the latter part of February; then shift to larger pots, using good rich soil, and place in a little more heat—say 60°. Keep as close to glass as possible. To have symmetrical plants they must have plenty of room.

Among the Malmaison carnations brought by Mr. Kirkham, was one measuring 4½ inches across. This seems to reach the "ideal" as far as size goes. And though the calyces of all were sadly split the form was good and not ragged—probably due to the fact that the splits were equally distributed all around the calyx. The Malmaison carnation is very popular in England, and when visiting there last year Mr. Kirkham obtained some cuttings for trial here. The plants from which the flowers shown were cut, were grown in four-inch pots, to single flowers, the plants disbudded with the exception of the crown bud. Mr. Kirkham says that they can be brought in for Easter. They should be kept near the glass and always on the dry side, as, otherwise, the flowers are quickly injured. The retail men thought that such flowers would sell quickly over the counter at $2 a dozen, at Easter. The plants should never be topped.

Mr. Singler stated that he was now propagating chrysanthemums for cutting next fall, and would try a house of these late propagated plants for that purpose. He intended keeping the plants in pots, but was advised to plant them out on the benches to save labor and expense as well as to secure better results. Regarding his carnations he said that the record for a house of Tidal Wave, containing 1,800 plants showed that he had cut, up to June 1 (beginning last September), 65,000 flowers, an average of over thirty-five flowers to a plant. He calculated that the house would produce not less than 90,000 blooms before the season was over. In his record he takes account of salable blooms only.

Mr. Anthony asked for opinions as to why Ampelopsis Veitchii had been winterkilled so much more than usual. There was quite a diversity of opinion. Some thought that protected plants had suffered most—owing to the open winter—but according to the observations of others unprotected plants has suffered just as severely. Nothing positive was arrived at, but in the discussion it was brought out that plants growing on walls in the vicinity of a chimney had nearly all been killed and this was attributed to the warmth of the wall. Mr. Stromback had noted the same thing in ampelopsis growing on the walls of the pumping station at Lincoln Park. He added that a new ampelopsis they were trying at the park—A. Engelmanni—had come through the winter admirably. He believed it would in time supplant Veitchii in this climate. The foliage is a little coarser than that of Veitchii, but its habit of growth is the same. Ampelopsis Roylei was also favorably spoken of, but Mr. S. thought that Engelmanni was still better for Chicago and vicinity.

A question having been raised as to the correct pronunciation of a plant name used by a member, and Mr. Benthey having exhibited during the discussion a familiarity with the construction of Latin words, he was requested to prepare something upon the subject for next meeting, and to submit with same a list of names most commonly mispronounced, giving the correct pronunciation in each case.

Mr. Neiglick told of having hydrangeas in excellent bloom at Christmas, and was requested to prepare a description of his practice for next meeting.

A proposition that the club offer a special premium at the fall exhibition of the Horticultural Society, met with favor, and the general sentiment was in favor of offering it for improved carnations. Mr. Anthony was requested to formulate such a premium in language that would cover the desired points, and present same at the next meeting for discussion and action.

The decorations at the Pullman wedding June 7, by Thorley, of New York, were very fine, but owing to the recent death of a member of the family were not so elaborate as at first intended.

The arrangements in the drawing rooms were superbly done. These rooms are very large, and of course like everything else in the Pullman mansion elaborately furnished. The finish is in ivory and gold and the flowers used were roses and white pæonies. The six large mirrors were draped with smilax except the one immediately in front of the bridal party, this being treated in Asparagus plumosus with a heavy fringe of Bride roses; at the bottom stood a handle basket of Brides, around which roses of the same kind were scattered loosely. The draping of these mirrors was certainly the most artistic we have ever seen, no two being treated alike and all equally well done.

The ceremony took place at the west end of the room, and starting at the chandelier, about 15 feet back from the west wall, a canopy was formed, six large garlands of white pæonies with their own foliage being held together at the apex with a large cluster of the same flowers tied with white sash ribbon. The bridal party entered through an aisle 50 feet long. This aisle was formed by 10 little pillars, 2½ feet high, made of white pæonies, the pillars being placed on a line, 10 feet apart and connected by white sash ribbons, fastened to each pillar with a large bow. The remainder of the decorations consisted principally of loose flowers arranged in vases or scattered around loosely in appropriate places. The one large mantel was banked with La France, Brides, cypripediums and white lilac. Around the rooms were placed some half a dozen elegant plant stands filled with choicest exotics.

Outside of the drawing rooms the decorations were very simple, consisting altogether of loose flowers and decorative plants, with the exception of the two dining tables. One was a buffet table set in the dining room, the centerpiece of which was a neat oval arrangement composed of white lilac, Bride roses and anthuriums. The other was a round table set in the conservatory for the bridal party, on which 20 covers were laid. This table was placed directly under the circular dome of the conservatory and around it in a half circle were placed some very choice decorative plants, among which might be noted some splendid specimens of araucarias, Areca lutescens, kentias, etc. The table was built around a superb specimen of Chamærops humilis, the very palm by the way which has graced, while still in the possesssion of a local florist, every Exposition ever given in this city. Starting at the trunk of the palm, as it appeared above the table, some Asparagus plumosus was gracefully draped around it running in light sprays up among the leaves, splendid pieces of orchids (Odontoglossum citrinum) being fastened among the asparagus. The whole was lit up by tiny electric lights arranged among the foliage. This part of the arrangement was simply perfect. Now we hope the decorator will forgive us if we pass a criticism upon the rest of the arrangement, which consisted of a round plateau six feet in diameter and nearly two feet high in the center, thus completely obstructing the view across the table. This was composed of four sections, one of superb blooms of cattleyas, two of Cypripedium Lawrenceanum and one of moss roses. Starting at the points where the sections met, four large and rather heavy sprays were laid around the table, of the same flowers that composed the plateau, with the addition of some white lilac. The color effect of this decoration was good so far as the flowers went, but the combination of pink moss roses, cattleyas and the yellow ware of the table was unfortunate.

The bride carried a very large bunch of Odontoglossum crispum and lily of the valley, the maid of honor one of the same size, composed of pink sweet peas. Both

bouquets were arranged in the old conventional style, rather flat at the top, the most graceful part being the ribbons. These narrow ribbons, perhaps fifty yards or more for each bouquet, were looped, twisted and knotted in a most artistic manner, and were certainly a great improvement on the broad and heavy ribbons generally used.

The bridesmaids, nine in number, carried an arrangement in the shape of a crescent wreath eighteen inches in diameter. Mignonette was the principal flower used with the addition of moss roses and cypripediums. These crescents were tied with a very broad green ribbon. We suppose this is the very latest in styles for bridal parties, but we must confess that we could see no real beauty in them.

The grounds outside have been entirely remodeled under the artistic hand of Mr. Barrett, of New York. On the terraces that lead up from 18th street to the conservatory, we noticed four grand specimen rhododendrons in full bloom. The plants are placed in large square boxes, made of polished oak, superbly finished. The base is planted with vines, ferns, and bright scarlet geraniums. But purple rhododendrons and scarlet geraniums was certainly a very unfortunate combination.

The out-door display taken as a whole was very fine, although the bedding was too crowded to give the best effect. All the plants, trees and shrubs that were used were the choicest that could be bought. A pair of Phœnix dactylifera that stood on the lawn were the finest we have seen for many a day. In conifers too, there was a very fine collection, which made a grand show.

Lake Forest was again visited by hail June 6. F. Calvert & Son lost 1,500 lights of glass and Thomas Appleton 250 lights. The hail played some curious freaks, in a number of cases coming with such force that the stones drove through the glass without cracking the light, leaving a hole that looked as though it had been cut out with a diamond.

J. C. Vaughan made a flying trip to New York last week.

We had a tremendous wind storm and heavy fall of rain with some hail last Monday, but no damage to greenhouses is yet reported.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

H. AUGUSTINE, Normal, Ill., president; Z. K. JEWETT, Sparta, Wis., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A. WHITNEY, Franklin Grove, Ill., treasurer. The Eighteenth annual meeting at Chicago, June, 1893.

The Atlanta Convention.

CONCLUDED.

It was after dark and in a regular southern downpouring shower when Fort Valley was reached, but the rain was soon over and moon and stars were shining. A convenient hotel accommodated a large number, others were taken to neighboring homes. It fell to our good fortune to be among those who were to go out to the great peach farm already of national fame as Hale's farm, the largest peach farm in the world owned by an individual. He had fifteen under the roof of his nice, new house, and all who know J. H. Hale, of Connecticut, need not be told that it was a pic-nic for all the several days that the guests of himself and wife remained. Hale is only down for a few weeks helping to keep things moving and will then return to Connecticut to handle another big peach crop, that, like the noted one of 1889, escaped the frosts of winter and spring.

It would make a long story to tell of all there is of interest to be seen in and around Fort Valley, Houston county, Georgia. It seems to well deserve its title, "The Peach Paradise of the United States." The attractive little city has 2,500 inhabitants, near the center of the state, on a high, level plateau 700 feet above the Gulf of Mexico, and when frosts kill the fruit blossoms on the lower levels, many miles further south, here they bloom and reward the grower with bounteous crops that can be placed in the great cities of the north in from 48 to 70 hours. And while it is now only the very earliest days of June, hundreds of crates of beautiful peaches—Alexanders—beautifully colored and ripened by the southern sun are being shipped daily from several points in the county. Upwards of 1,000,000 peach trees are already planted in great orchards and thousands of acres more that have for years been ruled and abused by "king cotton" are preparing to grow one of Pomona's choicest gifts, and pears, apples, plums and grapes as well.

Several large tracts of orchard planting are owned and managed by stock companies, among which may be mentioned the Ohio Fruit Land Co., with 1,250 acres, and $25,000 capital stock; the Albaugh Georgia Co., with 1,170 acres, $50,000 capital stock, and 80,000 peach trees planted. One orchard of 100 acres and 10,000 Kieffer pear trees is another sample. One of the places visited, so far the best developed, is that of E. M. Rumph, near Marshallville, on which from one orchard of peaches covering 200 acres $50,000 is said to have been made in 1889.

The Hale orchard is planted upon an old cotton plantation, the former owner of which seemed to have some conscience and heart in soil culture, and was therefore not quite so much of a land destroyer as many others, and the portion of mother earth which he held in trust was therefore not as badly "run" as the average. But all who know the Hales know that even this condition was not foundation enough for them, and so several thousand dollars worth of fertilizers were used at the start, mostly cotton hull ashes, cotton seed meal and rock phosphate. It is less than seven months since the work of building this great peach farm commenced, and yet to-day on that 900 acre farm are growing in the most thrifty manner 101,000 peach trees planted 13 feet each way, in rows one and a half miles long, besides hundreds of thousands more of young trees in nursery rows; two and one-half million Marianna plums to be used as stocks for budding more peach trees; a large variety of small fruits, including 60 varieties of strawberries, being tested in this soil and climate. One hundred acres of what is universally admitted to be the finest piece of corn in the county—and we saw nothing finer in all the trip from Washington to Georgia—is a sight to behold. Among the trees are growing hundreds of acres of cow peas, to be plowed under as a fertilizer, and to be immediately followed by scarlet clover which grows here all winter and can be turned under when two feet high next spring. The Hale farm is a beautiful, level plain, smooth as a prairie, and from the house every acre of it can be seen. In cultivation all the improved implements are used, and modern wide-awake "intensive" culture on an "extensive" plan is the rule. Before planting the farm was all carefully surveyed, being laid out in blocks 500 by 1,000 feet and divided by avenues and streets. The avenues run north and south, the streets east and west. Very appropriately the avenues are named for the peach growing states, with Connecticut in the well-earned center, with Georgia on one side and California on the other; then Delaware, Michigan, New Jersey, Missouri and Maryland. The streets are named for well known horticulturists, living and dead, Wilder, Augur, Berckmans, Barry and Earle.

The favorite peach of all this region is the Elberta, a native of this county, one of a lot of 1,200 seedlings raised by Mr. Rumph, before spoken of, and judging by the grand crop we saw upon tens of thousands of bearing trees during the days of our visit, it may well be said that it "is chief of twelve thousand and altogether lovely." The cultivator who can produce such a new fruit is indeed a benefactor of mankind. The Hales show their faith in it also, as out of their 101,000 trees already planted 60,000 are Elberta. Their other varieties are as follows: 10,000 Mountain Rose, 9,000 Crosby, 6,000 Stump the World, 5,000 Lady Ingold, 4,000 Tillotson, 4,000 Thurber, 3,000 Late Crawford.

A nice piece of Alfalfa, together with experimental plots of milo maize, sorghum, and various grasses, are being grown to determine their value as soiling and fodder crops.

The whole of this enterprise, developed in so short a time and already so full of promise, was a surprise to the visitors and to others who were in the long procession of carriages furnished by citizens who were glad of an opportunity to show the advantages of their pleasant land, and who drove over this grand farm on this round of sightseeing.

And all this has been done with the native colored help, the darkey and the mule, (but the Hales have some good horses as well), under the direction of a bright New England young man, Mr. J. T. Molumphy, one of the boys that the Hales trained on their Connecticut farm, who, down here, far from friends and home, has, in the absence of the proprietors, worked for months, learned to use and control the labor, and to present on June 1 an orchard farm, well planted and cultivated, clear of weeds and a model in every way. If those who saw it with eastern, northern and western eyes were delighted at such thrift and management we may well believe it did "surprise the natives." But the spirit of enterprise is abroad and in the most pleasant relations possible those from afar and those to the manor born are working out one of the grand enterprises of the "New South," and all tending to the glory of our favored land.

California must look well to her laurels, for nowhere outside of the Golden State have we ever seen such great orchards, such model growth of trees and vines, such perfect tillage, and all the conditions of soil and climate so nearly ideal. And this is nearer by 2,000 miles to the markets in which competition will each year become closer. A young giant is awakening in middle Georgia, strong and healthy in his early youth he has entered for the race, and those who would hold their own with him must be up and doing.

MORTIMER WHITEHEAD.

MOSCOW, IDAHO.—The Mix Co., proprietors of the Moscow Nursery, have purchased the entire plant of the North Idaho Nursery, located on American Ridge.

VICE-PRESIDENT JEWETT was in Chicago this week, and while here visited the World's Fair grounds.

RICHMOND, IND.—Gause & Bissell have dissolved partnership.

KENOSHA, WIS.—Lewis Turner has added a new rose house 18x100.

SOUTH ORANGE, N. J.—Mr. Alex. McPherson has rented the greenhouses recently occupied by the late Frederick Mau.

DANVILLE, ILL.—Adam Balmer, manager of the florist business of J. G. English, has purchased the whole plant and will remove it to Decatur, Ill., where he will start in business for himself.

SHEBOYGAN, WIS.—Miss A. Schucht is to be married shortly and will retire from business. The store at 707 8th street will be continued by her father, Otto Schucht, in connection with his greenhouses.

SANDUSKY, O.—Robert Gutzeit and Robert Birchard have commenced the construction of a greenhouse 32x66 at the corner of Adams and Warren streets and will start in business under the title Sandusky Floral Co.

WEST SUPERIOR, WIS.—C. J. Pult, J. J. Pult and G. Miller have recently built a greenhouse and store at the corner of Belknap and Lamborn avenues, and will conduct business under the title, Superior Floral Co. They have secured a large piece of land, a short distance from the city, where they will make extensive improvements next season.

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CATHERINE MERMET	3 00	4.00
LA FRANCE	4.00	
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PERLE DES JARDINS	3.00	4 00
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Samples mailed for 25 cents.

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Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As florist and gardener on commercial or private place. Address N N, care American Florist, Chicago.

SITUATION WANTED—By young man as florist; age 20; 5 years' experience in carnations, violets, bulb forcing and general cut flower grower. First-class references. Address JACOB GOELLER box 171, Summit, N. J.

SITUATION WANTED—By a first-class florist; German, 27 years of age, single; 13 years' experience in growing roses, carnations, cut flowers, bedding, palms, orchids; also first-class propagator; able to take charge of any commercial or private place. Best of references. Address PAUL BACKOFEN, box H, Edzely, Bucks Co., Pa.

WANTED—On a commercial place, an under man who has had experience in ferns and orchids. Address, giving recommendations, wages required, etc., to CHAS F EVANS & BRO., Station F, Philadelphia, Pa.

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Harrisii, Callas	6.00@ 8.00
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Pæonies	4 00
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Gladiolutes	6.00
Pyrethrums	1 00
Smilax	12 00@15 00
Adiantum	1 00
Asparagus	50.00

	NEW YORK, June 14.
Roses	.50@ 2 00
Carnations	.50@ 1 00
Valley	4.00@ 6 00
Harrisii	4 00@ 6.00
Callas	6.00@ 8 00
Sweet peas	.50@ .75
Mignonette	1.00@ 2.00
Smilax	10.00@20 00
Adiantums	1.00

	PHILADELPHIA, June 14
Roses, Brunners	12 50@20 00
" Beauties	12.50@20.00
" Baroness	15 00
" Laings	12.50@15.00
" Jacqs	4 00@10.00
" Mermets, Brides	3 00@ 4.00
" La France, Albany	3.00@ 4 00
" Perles, Niphetos, Gontiers	2 00@ 3 00
Carnations	.50@ 1.25
Pæonies	4.00
Sweet peas	1.00
Valley	5 00
Cornflower	1.00
Smilax	20.00
Adiantums	1.00

	CHICAGO, June 14.
Roses, Perle, Niphetos, Gontier	3.00@ 4 00
" Bon Silenes	2 00
" Mermets, La France, Hoste	3 00@ 5 00
" Bennetts, Dukes, Woottons	4.00@ 6 00
" Albany, Bride	4 00@ 6 00
" Am. Beauties	12.00@15 00
" Jacq	6.00@10 00
Carnations, long	1.00@ 1.50
" short	.75@ 1 00
Tulips	3.00@ 5.00
Valley	2.00@ 3 00
Callas	10 00@12 00
Harrisii	12.00
Adiantums	1 00
Smilax	20.00@25 00
Pæonies	5 00@ 7 00
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Pansies	.30@ .40

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Shipped promptly on short notice.
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FLORISTS
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A complete line of Wire Designs

The Seed Trade.

W. H. MARCON, of Steele Bros. Co. Toronto, visited Chicago, June 11.

SEED GROWERS in Connecticut report no damage from rain and that the onion seed crop now promises well.

REPORTS from pea crop in northern central Wisconsin would indicate that the wet weather has done some considerable damage.

REPORTS from the seed crops in Nebraska indicate splendid weather and a good general outlook, although the stand of sweet corn is not so full as usual.

MR. J. B. KIDD spent last Saturday in Chicago, and in company with Mr. W. H. Marcon and J. C. Vaughan visited the latter's greenhouses at Western Springs.

ONIONS growing for seed on D. M. Ferry & Co.'s Grand River Farm are looking well in spite of much rain. About one half of their acreage is planted to Red Wethersfield.

MR. J. B. KIDD, for sometime with J. M. Thorburn & Co., left June 8, for San Francisco, to take charge of the seed department of the Sherwood Hall Nursery Co. Mr. Kidd has the best wishes of his hundreds of friends in the trade.

Directory Corrections.

In Massachusetts, cross out Rea Bros., at Norwood Central. They are also on the list at Norwood, so the first address is a duplicate.

In Kansas, add to Independence: F. Barnes, William H.,—4. Mr. Barnes has been in business here for many years and his name appeared in our list for 1887, but as we received no response to our letter of inquiry, when compiling later lists his name was omitted, which it now appears should not have been done.

Wanted.

LILIUM AURATUM BULBS, home grown, large. State price and quantity.

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Specialties: CARNATIONS, COLEUS AND PANSIES.

ROOTED CUTTINGS AND PLANTS.

Bulbs and Plants.

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Also 5, 8, 9 and 15 pound Climax Grape Baskets.

Manuf d by J. E. CRANDALL, Brocton, N. Y.

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FOR SALE.

500 MME. BALLEROI GERANIUMS, Rooted Cuttings, $1.25 per 100, or the lot $3.50. Speak quick if you want them.

HENRY WELFARE, Florist, Curonna, Mich.

FLORAL DESIGNS,

The Cut Flower Worker's friend. Fine book of 160 pages. Send $3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

CHRYSANTHEMUMS.

We have still on hand a stock of the choicest recent introductions. To those who have not yet purchased, we would say that young plants procured at this late season can be grown for fall flowering and exhibition purposes, but orders should be sent in at once for this mo t profitable and popular florists' flower. Our stock yet contains a limited quantity of Harry May, Mrs. W. S. Kimball, Ada McVickar, Mr. Hicks Arnold, Miss Annie Manda, Mrs. E. D. Adams, Mrs. M. F. Gallagher, Miss Bertha N. Robison, Mrs. J. Hood Wright, Rohallion, Ramona, Mrs. DeWitt Smith, L. B. Dana, Daisy, Gold, Mrs. Grace Hill, etc.

ARECA LUTESCENS SEED.

We have just received from Br zil a large importation of Areca lutescens seed, which we offer at 90 cents per hundred; $7.50 per thousand.

PITCHER & MANDA,

UNITED STATES NURSERIES. SHORT HILLS, N. J.

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CATTLEYA TRIANAE.

An especially fine lot of this useful and Winter Flowering Orchid received.

PRICES ON FROM 1 TO 50 CASES ON APPLICATION.

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AS GOOD AS THE BEST, AND JUST A TRIFLE BETTER.

That is what my customers say, and they are in all parts of the United States and Canada—Maine to California, and Montreal to the Gulf of Mexico.

If care and attention will do it, they will be just a trifle better every season; quality is the first consideration, price the second, as an inferior strain of Pansies is dear at any price.

With superior facilities for handling trade and prompt attention to all communications I will make it a pleasure for you to deal with me and would respectfully solicit a trial order.

Good stocky plants from seed beds ready August 20th and after, at 75 cents per 100; $5.00 per 1000.

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We are Headquarters, and have 20,000 plants to offer at $1.50 per doz.; $10 per 100; $80 per 1000. It is easily and rapidly propagated by cuttings and division, and **NOW IS THE TIME** to get up a stock for fall planting. It is double the size of Snowflake and vastly superior in every way. Many of the blooms were larger than a silver dollar as we grew them last winter. It is a free and constant bloomer, requiring the same conditions as violets.

We also have a heavy stock of **Snowflake** that we wil close out at $1.50 per 100; $12 per 1000, for the next three weeks.

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SEE PAGE 971, ISSUE OF MAY 26th, 1892.

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Tuberous Begonias.

Small plants by mail, in colors, per 100, $3.00; mixed, $2.50.

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$5.00 per five hundred
$8 50 per thousand.
$80.00 per ten thousand

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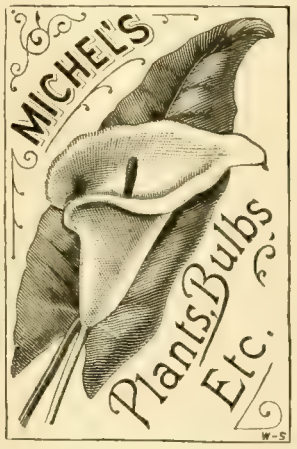
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150 Adiantum, assorted, 4-inch pots, strong, at $10 00 per 100.

50 Palms—Chamærops, 4 and 5-inch, at $15.

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CLEMATIS.

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F. A. BALLER,

BLOOMINGTON, ILL.

St. Louis.

The Missouri Botanical Garden was visited by 1,600 people Sunday, June 5, that being one of the Sundays on which the trustees are permitted to open the garden to the public.

90° in the shade, flowers in abundance, prices declining.

Florists' Club met Thursday. Premium list of the chrysanthemum show completed. The society voted to invite the S. A. F. to St. Louis in '93. The committee on the revision of the constitution made its report, which was laid over according to rules.

The Missouri State Horticultural Society held its semi-annual meeting at Chillicothe, June 7, 8 and 9. Three prizes were given on cut flowers. Mr. Conrad Hartzell received first premium on his collection of apples, consisting of a dozen varieties in perfect condition.

Mrs. Ellison is offering her business for sale. J. C. D.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

OUR CUT FLOWER BUSINESS

Demands all our growing capacity, we have therefore decided to close out our entire stock of plants this season. We start the ball rolling with the following Speak quick if you want them:

	Per 100
Tuberous Begonias, from the finest European collections	$ 5 00
Clematis, pot grown, 8-inch pots	40.00
Rose, American Beauty, splendid clean young stock	8.00
Fuchsias, all the standard sorts ready for spring sales, 4-inch	8.00
Latania Borbonica, we also have more of this elegant palm than we need and will sell a few 5 and 6-in. stuff in fine condition	100.00

Cut Flowers.

For the balance of this month we offer

ROSES—Brides and Mermets	3 00
" La France	5.00
" American Beauty	8.00
Carnations—Garfield, long	1.50
" Garfield, short	1.00
" Hinze's White, long	1.50
" Hinze's White, short	1.00
Smilax—Good, clean, heavy stock	15 00

Bear in mind this stock is all grown on the place and handled but once. Cut flower buyers know the importance of this. Stock guaranteed A1. No charge for packing.

ADIANTUM CAPILLUS VENERIS—The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.

Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it has many aliases. **Price, strong plants, $8 per 100.**

Owing to the heavy demand, our stock of this most desirable Fern, ready for immediate shipment is getting low. In order to accommodate those who wish to make plantings later in the season, we will book orders now for delivery any time till July 1st. This will give florists who are now busy with their spring work an opportunity to secure their stock and have it delivered at a time when they can take care of it.

JOHN IRVINE CO.,
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THEODOSIA B. SHEPHERD, President. C. B. BOOTHE, Sec'y and Treas.

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Succeed to the business of THEODOSIA B. SHEPHERD in growing Choice **SEEDS, PLANTS and BULBS** for Seedsmen and Florists, and collecting **Rare Native Plants and Seeds.**

GROWN UNDER THE MOST FAVORABLE CONDITIONS OUR CALIFORNIA STOCK IS UNSURPASSED FOR STRENGTH, VIGOR and RELIABILITY.

ESPECIAL ATTENTION GIVEN TO CONTRACT ORDERS.

HAVE YOU ROOM FOR ANY OF THESE?

CANNA VENTURA—"A prince among cannas." Largest flowers of any sort. Drooping petals 1¼ to 1½-inches across, taper to center of flower; self color, carmine and scarlet blended. 75 cents each; $8.00 per dozen. Special quantity rates.

ALL OTHER well-known varieties in stock; strong bulbs; reasonable prices.

CANNA SEEDS (Fall Delivery). Separate or mixed from Ventura, Mme. Crozy, Star of '91, Doyen Sisley, President Carnot and thirty others of the best and latest sorts. Prices on application.

CALLA BULBS—(August Delivery). Per 100, $3.00, $5.00, $6.00, $8.00. Per 1000, $25.00, $45.00, $55.00, $65.00. Sets, per 1000, $3.00.

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EGYPTIAN PAPYRUS—Each $1.50; per 100, $10.00.

CYPERUS ALTERNIFOLIUS—Dozen, 50 cents; per 100, $3.00.

POINSETTIA—Dormant plants 3, 4 and 5-inch pots, per 100, $8.00, $12.00, $20.00.

APPLE GERANIUM—Strong plants. Dozen, 50 cents; per 100, $3.00.

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CALIFORNIA FAN PALM—Seeds 25 cents. Plants, 15 inches high, 100 $3.50, postpaid. Large, 3 to 5 feet high, each $1.00 to $1.50; dozen $7.50 to $13.00.

ERYTHEA EDULIS or GAUDALOUPE ISLAND PALM—10 seeds 30 cents; 50 seeds $1.50; 100 seeds $2.50.

CACTI ECHINOPSIS MULLERI—Fine bloomer, very large, satiny rose, funnel-shaped flower, 100 $5.00, $10.00, $15.00.

CEREUS TRIANGULARIS—Night bloomer. Magnificent flowers 9 inches across. Strong blooming cuttings, each 10 cents; 100 $7.00 to $10.00.

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PARONYCHIOIDES MAJOR and AUREA NANA, strong pot plants, $3 per 100; $25 per 1000. Packed light and satisfaction guaranteed. Send for circular.

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	Per 100	Per 1000
Mammoths—Large fine flowers	$ 3 00	$25 00
General Collection—Good collection	2.50	22.00

Roses. Fine, healthy stock from 2½-inch pots. Waban, Pearl, Mermet, Mme. Hoste, Sunset, Mme. Cusin, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, S. d'un Ami... 5.00 45.00

H. P. Roses, in bud and bloom, 4 and 5-inch pots, strong plants..... $15 to 25 00

Tea Roses, in bud and bloom, 4 & 5-in. pots, strong plants..... $10 to 15 00

Alternantheras, 4 vars., strong plants.. 4.00

Cannas, strong started bulbs, 4-in. pots. 8.00

Tuberoses, " " " 4-in. pots. 6 00

Dracæna indivisa, strong plants..... 40.00

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Rare tropical fruit and ornamental plants, trees, vines, bulbs, from the four corners of the earth. Choice Florida plants of merit. Palms, decorative stock, etc. Send for special wholesale list, or Notice page 655 Feb. 4th FLORIST.

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We have without question the largest stock of these New Cannas in the United States, and have probably more available stock than is held by all other American houses combined.

At the present time we have 300 running feet of greenhouse, 20 feet in width completely filled with these valuable varieties. The price of these Cannas may seem high, but we consider them the most valuable novelties that can be purchased by florists at the present time. Although these prices are high, we will not cut these rates, or sell for less than the prices here quoted this season, and will not unload them at the end of the season as is often done by many houses in the trade, to the injury of the purchasers who have bought early in the season at high prices. We consider these Cannas are worth fully all we ask for them to grow on for another season, and will guarantee buyers that we will not offer them at less prices than here quoted this season, so that buyers can purchase them with confidence. Every florist who has not secured a stock of these Cannas by this time, should do so at once. The demand for these New Cannas is increasing constantly for they are far superior to anything else in the French line, and it will be wise to invest in these to the exclusion of every other of the so-called French varieties that have been offered up to this time. They are head and shoulders above everything else. Send in your order at once, and secure the stock while we have it, for while our stock is large, we do not think it will equal the demand before the season of 1892 is ended. Our plants are *extra strong* and well established, with fine tops, from a foot to 18 inches in height, and can be shipped either from pots, well established, with a fine ball of earth attached, or can be shaken out, and most of the soil removed, in which case they make a much lighter package. In ordering, please state which way you prefer to have the plants shipped you; for long shipments they can go as well with almost all the soil shaken out. Park and Cemetery Superintendents and florists generally should make large plantings of this stock, which will make a fine display for them, and the increase of the stock will be one of the best investments that can be made for another year.

The flowers of "Madame Crozy" are a flaming scarlet bordered with gold, a marvelous combination of colors, having all the delicacy and loveliness of the rarest orchid. It produces all the wealth, richness and tropical luxuriance of foliage of the common kinds, added to which is the gorgeousness of their flaming panicles of bloom, which are borne in immense heads at the terminus of every shoot. The individual flowers are five inches in diameter, and when the large size of the flowers and the large heads of bloom are taken in connection with the freedom with which it blooms, it makes one of the most attractive plants for bedding it can be possible to conceive of; it also makes elegant plants for the conservatory both summer and winter—in fact it is one of the finest plants for conservatory decoration there is. Every shoot blooms, and as often as a head of bloom passes its prime another shoot pushes beyond it, and each shoot flowers three, four or five times in succession. As the plants are constantly throwing up shoots from the ground, they continue a mass of most gorgeous bloom.

The flowers of "Star of 1891" are not so perfect individually, but are equally brilliant and indispensable, as it is more dwarf in growth and can be used in planting with Crozy to advantage on this account.

PRICE OF MADAME CROZY, $60.00 per 100.

PRICE OF STAR OF 1891. $45.00 per 100.

Colored plates of Madame Crozy mailed free. Can be supplied in any quantity.
Trade lists on application. Address

F. R. PIERSON COMPANY,

TARRYTOWN-ON-HUDSON NEW YORK.

Toronto.

Social chats between members of the profession are few and far between, and necessarily brief just now, ergo—your correspondent has had very little opportunity of picking up any items of news worthy of a place in your paper, but the fact of every one being in such a state of hustle should be a good sign that business is rushing. How prices are going, whether the bears or bulls are uppermost, I have been unable to ascertain. After the rush is over one will probably be able to see at a glance, on meeting a florist, by the lines in his face whether he has been making money or not.

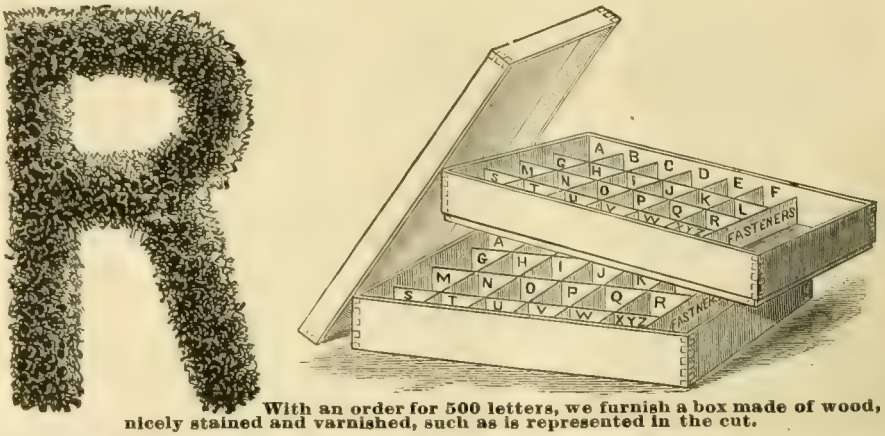
The weather has been particularly favorable for newly-planted-out stuff (also to the weeds), and though most of it has been planted out considerably later than usual, it will probably be just as far ahead. Refreshing showers, mild days, and cool (not cold) nights, often with fog, have been the general thing. Some really hot weather now would make things fairly jump.

The farmers seem to have positively nothing to grumble at this year, truly a phenomenal state of affairs, and two or three I have spoken to say that prospects at the present time point to immense crops of hay and cereals. Perhaps farm talk may seem a little out of place in a florists' paper, but on giving the matter some consideration one finds that the state of trade in general (floral and otherwise) is almost entirely regulated by the state of the crops. E.

World's Fair Notes.

The Horticultural Department has received four large plants from Mr. D. S. Brown, of St. Louis; one a tall specimen of Cocos plumosa, about 35 feet high, the others a Ravenala madagascariensis, a Caryota urens and a bamboo, all about the same height.

The Landscape Department recently received four car loads of plants from California, consisting mainly of palms and dracænas; among the latter several hundred D. indivisa are very fine, most of them stand from 8 to 14 feet high. There are also a few good D. Draco and D. australis in the lot. In palms we noticed some large Corypha australis, Chamærops humilis, Phoenix lancifolia, P. canariensis and P. dactylifera. In conifers a handsome group of taxus was notable, also a few very good araucarias.



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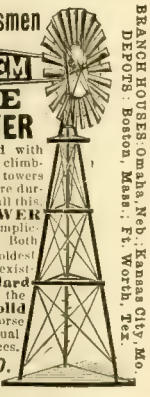
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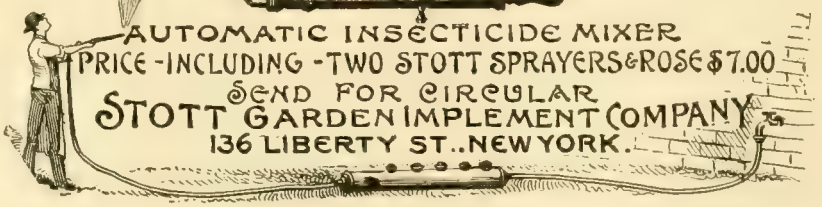
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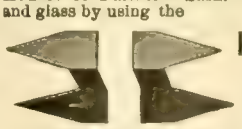
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Washington.

Flowers plentiful, quality only fair, demand good. Roses medium in quality, best La France 75c and $1 per doz. Coleus, geraniums, heliotrope and other soft stuff abundant, bring 50 cents per doz. from two and three-inch pots. The florists seem well satisfied with the spring trade.

Mr. G. H. Brown, the able Sup't of Public Grounds, is a very busy man just now, looking after the planting of the various reservations about town and at night he is busy working up his designs for the Corps badges which he proposes to work out in plants. He began this work last Monday. I may have more on this subject next week.

The parks look beautiful, and their newly planted beds of soft stuff and filled vases take the place in part of the shrubbery, which was so lately covered with bloom. The only shrubs now in bloom are Deutzia crenata fl. pl., which is simply perfect with its long bending boughs of white pink tinged flowers; Weigelia floribunda, the darkest of all and the last to flower with us, and yet the least showy; strong plants of Viburnum plicatum are still to be seen in almost perfect flower, one of the features which recomends it is its lasting quality—both on the plant and after being cut; its flowers are smaller than some of the others, foliage rich dark green, forming a good contrast with its beautiful white flowers.

Tuesday evening, June 7, was the regular meeting of the Washington Bowling Club. Unfortunately some of the best bowlers of the home club were unavoidably absent; this was to be regretted as ten of our neighbors of the Baltimore Club came over expecting to show our team what they could do on the much talked of short alley. The visitors present were Messrs. Halliday, Berll, H. Bauer, Kress, Moss, Weidey, Perry, Hoffman, Frederick and F. Bauer. After playing several practise games, a match between the two cities was arranged. The members of each team were drawn by lot. The following are the scores:

WASHINGTON.		BALTIMORE.	
W. Gude	152	H. Bauer	170
Cooke	180	F. Bauer	108
Bowdler	222	Halliday	158
Miller	151	Frederick	99
Oliver	178	Hoffman	107
J. Clark	107	Perry	121
Total	990	Total	763

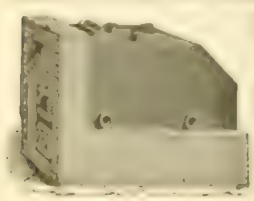
Where would the boys from the Monumental City have been if our heavy bowlers had been present? When the Washington Club visited the Baltimore bowlers a few weeks ago, they defeated them on their own grounds by 161 points per man. I trust the Baltimores will not get discouraged but will continue their friendly relations toward us.

C. LESLIE REYNOLDS.

Hardiness of Lilium Wallichianum Superbum.

A bulb of this fine lily, planted out last year on a steep bank, has survived the winter and is now growing strongly. It was covered with a little litter.

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2¼ "	"	3.50	6 "	"	2 20
2½ "	"	4 00	7 "	"	3.50
3 "	"	5 00	8 "	"	5.00
3½ "	"	7 25	9 "	"	8.00
4 "	"	9.00	10 "	"	10.00

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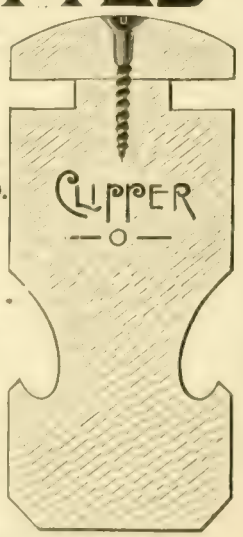


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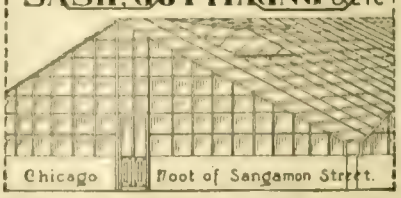
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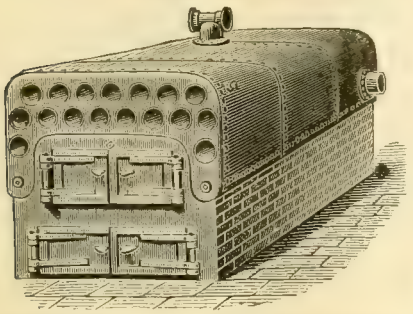
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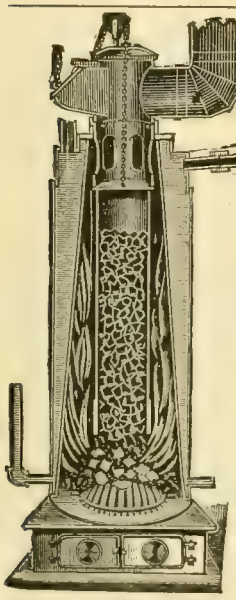
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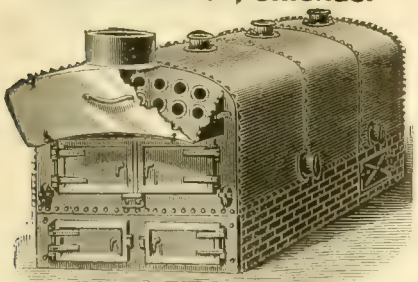
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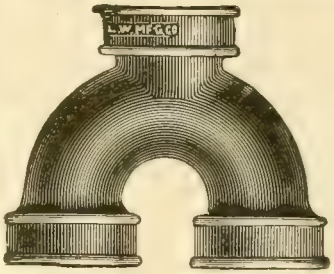
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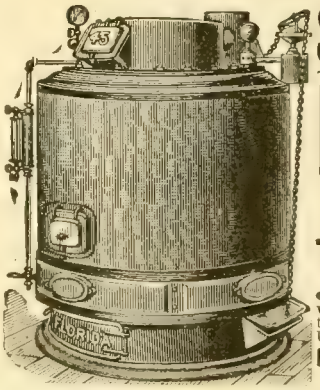
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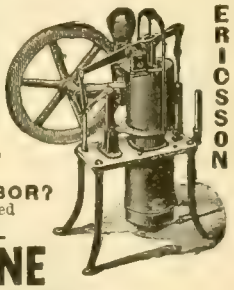
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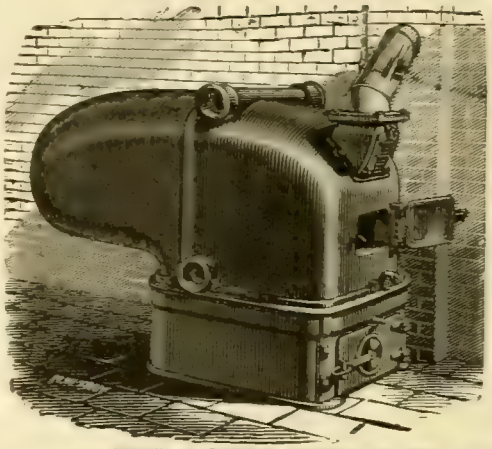
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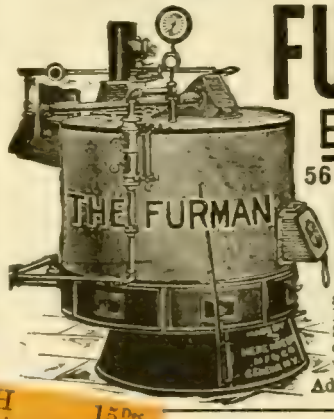
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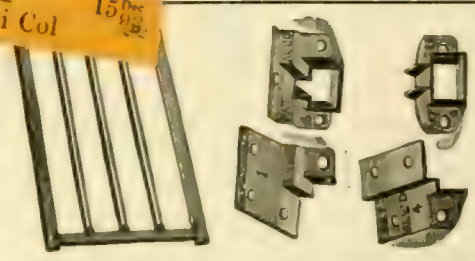
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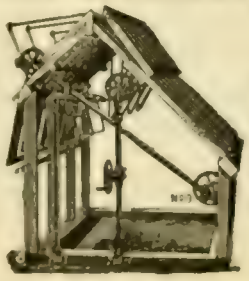
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A WEEKLY JOURNAL FOR THE TRADE

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GREENFIELD, MASS.—The heaviest and most destructive hail storm ever known in this vicinity riddled the greenhouses here the afternoon of June 14.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

How to Conduct a Retail Cut Flower Store.

BY C. LONGINETTE.

[*Read before the Florists' Club of Philadelphia at the June meeting.*]

Never having had the management of a retail cut flower store, or any other store for that matter, I do not see why the committee which has these matters in charge, or the president, or whoever it was that caused all this trouble, selected me for this work. However, having passed quite a number of the days of my life in the florists' business I will give you the benefit of some of my experience and offer a few suggestions that I hope may be of some use to at least a few of you.

In the first place it is absolutely necessary to have your store in a good location—no entry way, or cellar door, or blocking up the street with a lot of youngsters carrying baskets. I don't know anything about this kind of a business excepting that it plays hob with the man in the store, who after he has stocked up in the morning and has everything in good shape for a good day's business has all his calculations knocked into a cocked hat by almost the first customer who tells him, when asked one dollar per dozen for buds, that he has just bought the same kind fully as good down on the street for 50 cents per dozen. On investigation we find this statement to be only too true, and the fakir just laughs, and when the dealer speaks to his growers about the matter they declare by all that is good and holy that the fakirs get no flowers from them. They certainly get flowers from somewhere and sell for a profit at a price which to the storekeeper is less than first cost.

When the store is opened care must be taken that it is well stocked with baskets, boxes, wire frames, etc., and when I mean well stocked I don't mean overstocked. For the man who fills up in large quantities at first is, before long, sure to have a lot of unsalable goods on hand, crowding up the space necessary for novelties, which should be an essential feature in a well regulated flower store. It is poor policy to have nothing but shop worn goods to show customers.

If the store is in a BRUNNER neighborhood boxes for loose flowers and paper for wrapping must be A No. 1. Boxes with inscriptions such as "Patent glove fitting," "Gents half hose, fast black," "All linen suspenders," "Real balbriggan" and the like, will never do for this man's trade. Old newspapers and grocery store string might have done 10 years ago, but to-day he must select a delicate and distinct shade of paper and twine to match. His boxes should be of different sizes to suit the stems of the roses, and like the wrapping paper of a shade of color all his own. A man to-day if he keeps his eyes open can tell if his trade is slipping away from him by watching the people on the street and noting the color of the package they may be carrying.

After the store is fixed up, that is to say, after the goods purchased have been nicely arranged and a good roomy ice box convenient to the counter has been provided, you are ready to buy a stock of cut flowers. Now, right here is where the dealer lives or dies, so far as his business is concerned. If his trade wants Brunners, Luizets or Laings or other high class flowers and he fills his ice box with Perles, Gontiers and the like because he can buy them cheap, he will soon have no business, as his neighborhood wants fine flowers and the people will go elsewhere if he does not keep them, while the people who want a cheaper class of flowers will not come to him, for they are sure from his location that he must be a high priced man.

After a business is started and is getting along pretty well a number of little things will occur which a man does not like. For instance, about 9 o'clock in the morning, and later, when customers begin to come in, two or three growers will appear; yes, I have seen five or six at one time, each man having a three or four foot basket or box, or perhaps two or three of them; these he places on the counter or on the stools in front until a man can hardly see his customers, so he has to worry along with these men and get them out of the way as best he can. About 11 or 12 o'clock along come a lot of plant men; they are usually well dressed and have a cigar in full blast; they also monopolize the stools; it often happens that three or more get into an argument about the best way to do this, or to grow that, or what is the best way to keep up prices, etc., pulling away at their cigars in the meantime, regardless of the customers who drop in from time to time; finally getting hungry they go out, much to the storekeeper's relief, and for the balance of the day things move along very well.

I find quite a number of storekeepers who in order to get a little business for themselves quote prices on this or that flower at cost, or a very little above. This I am unalterably opposed to. Every flower sold should bring a fair profit. Persons who buy roses for $1.50 a dozen in one store and find as good in another place of business quoted at $1 can not help but think that they have been cheated, and the first dealer loses a customer without any real fault of his own, besides it demoralizes the business.

There are a few rules that should be enforced in every establishment. In the first place the store should be opened every week day in the morning not later than 7:30. Many an early order is lost by neglecting this rule. All flowers should be sorted over first thing, all jars cleaned and filled with fresh water, so as to be ready for a new stock soon as it comes in.

The show must now be displayed, if the weather will permit, and the window fixed in artistic style. Always have violets, pansies, etc. on the counter, as people often buy because they are attracted by their beauty and fragrance, and if you happen to have anything particularly fine always call the attention of the customer to it; sales are often made in this way.

Finally, treat everybody who comes in the same as if they were the best customer that you have, and you will make trade in that way; although it is pretty hard to carry this rule out, for we meet with pretty hard cases sometimes, but patience and a desire to please will win in the long run and lay the foundation for a prosperous business.

Bedding and Vase Plants.

Last Saturday the writer looked through the greenhouses of Mr. J. T. Anthony, Chicago, who conducts a general business, covering pretty well all branches. In the absence of Mr. Anthony his foreman, Mr. W. Viberts, made the following observations upon the condition of trade and the usefulness and popularity of the various classes of plants grown here.

In vines for vases he uses vincas, glechomas (Nepeta glechoma variegata), English ivies, cobæas, thunbergias, maurandyas, nasturtiums and ivy geraniums. He used to use Kenilworth ivy considerably, but will not grow it any more as the stems near the roots are soon bare and unsightly.

A plant that he uses very freely in vases and boxes is Nierembergia gracilis. He also uses Lantana Smithii freely and finds it takes with the people. The other plants used are mainly geraniums.

He has noticed this year a very large demand for vases filled entirely with geraniums of one variety. Sometimes with a border of ivy leaved geraniums to droop over the edges and sometimes with a border of silver leaved ones. Where all scarlet blooming varieties are used the old Mountain of Snow is used for a border, and where pink sorts are used the border is of geranium Mrs. Parker, whose foliage is almost identical with that of Mt. of Snow, but which has handsome double pink flowers. He is much impressed with the value of Mrs. Parker, the flower is so much superior to that of other geraniums with variegated foliage.

His standby among scarlet geraniums is Gen. Sheridan. In color it is much like Gen. Grant but in habit of growth it is more dwarf and compact. In single whites he swears by Queen of the Belgians and has as yet found nothing in this class to equal it.

He has noted quite an increase in the popularity of the petunia since they began to offer plants of really good sorts. And for a cheap flower plants from a good strain of seed are always exceedingly useful to satisfy a certain line of customers. People that want a brilliant effect for a moderate outlay are nearly always satisfied with a good strain of single petunias, and he has filled vases entirely with these plants too. Feverfew is still called for, but it has waned considerably in popularity. He has had hardly any demand for stocks this year, and has had the same experience with the once popular calendulas. He also noted a falling off in the call for Centaurea gymnocarpa and for verbenas too. Those that still ask for verbenas want first-class plants only and the little weaklings that used to sell readily at a low rate are no longer wanted at any price. The call for pansies is as brisk as ever. But not so many were used in vases this year as usual owing to the miserable spring.

In the garden was noted a lot of hardy pyrethrums. The flowers were very double and they are found very useful for summer flowers. Many customers could not be convinced that they were not asters. Two of the best sorts were Purity, white, and Mons. Barral, pink. They bloom freely all summer long and come in very handy for design work.

Another plant grown for summer bloom is Gaillardia pictum. This is found very useful in meeting a certain demand for a big bunch of bloom at a moderate price during the summer.

A big bed of gladiolus planted six weeks ago were showing the leaf blades about six inches above the surface of the ground, and beside it was another bed just planted to provide for a succession crop of summer bloom.

A few years ago they had a big call for the old fashioned garden pink. They laid in a big stock but it don't go now so fast as it did though there is still a generous demand. A batch of armeria (sea pink) made a pretty show and seemed to take the popular fancy, but the flowers spoil badly from heavy rain.

Have we got Dracæna indivisa or something else, is a question that is bothering Mr. Viberts. A big frame is filled with the plants, but they look almost like bunches of grass instead of getting up in the world on a respectable length of stem as D. indivisa should do.

Another problem with him is the way the asters act. After they attain to a certain state of development they are attacked by a canker on the stem and in a single day they are done for. He can discover no evidence of the presence of insects. Some gardeners tell him that something is the matter with the soil but he questions whether this is correct.

In one of the greenhouses was a bench of Lilium auratum, some of the plants already in bloom and the others coming along in succession.

He is very much pleased with the rose Clotilde Soupert as a pot plant for spring sales. He believes it will take high rank above all other light colored roses for this purpose. Nice plants in 4-inch pots retail quickly at 50 cents each. In pink pot roses for spring sales the old Hermosa still holds its own. Plants in 4-inch pots retail at from 35 cents to 50 cents each.

Notes From a Local Florist.

Though we are often dazzled by the success of big firms or great specialists there is no question that many a good livelihood is earned by the small dealers, where trade runs all the way from cabbage plants to decorative palms. Indeed, a man of small capital will find his safest and most remunerative investment in this line of trade, provided of course, that he knows both his business and his market. The locality should be one in which the people are sufficiently well to-do to buy plants, and the stock be chosen with an eye to their needs. A district where there are small towns and suburban residences usually offers a good field for a general trade, and where the roads are good it is no disadvantage if the place is a mile or two from town; people like the jaunt, when there is an attractive place at the end of it. The question of attractiveness cannot be too strongly urged; any local dealer will agree that this has a powerful influence on intending purchasers. Well kept walks and handsome bedding, even of the most moderate dimensions, usually make people want to go and do likewise.

A dealer who has been trying this plan says his next innovation will be a lily tank on a large front lawn, where it will hold a prominent position. It will be built of brick, cemented, after a style shown in the FLORIST, I think last year, and will be filled with Egyptian lotus. It will prove a drawing attraction in a district where the lotus is unknown, and do a good deal of advertising for the greenhouses.

Another attraction which has proved very satisfactory, is a large rose garden; it is a mass of bloom in mid-June, and people come miles to see it. Many amateurs are quite unfamiliar with the fine garden hybrids, and this show gives new ideas as to what a rose should be. It gives a chance, too, to show off Rosa rugosa, a most ornamental shrub for forming a clump, but very little known in most places.

In autumn the best bit of advertising is a little chrysanthemum show, perhaps a single house, arranged specially for inspection. In such a trade as this, apart from flowers for cutting, the best paying chrysanthemums are small and shapely plants in 6-inch pots, and the varieties should be chosen with this object in view. A few specimen plants may be grown; they will be found handy for decorating, but these handsome little plants brighten up a room, and can be sold for a moderate price, so they are popular. Though both pink and yellow chrysanthemums sell well Ivory has proved one of the most popular for this use; its habit is the very ideal for a pot plant, and its bloom is both handome and abundant. A little paragraph in the local papers calls attention to the nurseryman's rose or chrysanthemum show; of course if he is a prudent man he has a standing adv. all the year round, and the local editor is ready enough to give him a paragraph on these occasions.

The retail palm trade is much larger than it was; kentias, latanias and arecas are good stock for a local dealer. It is no trouble to put a bit of lycopodium on the top of the pot—it soon covers it over, and it is worth while; not only is it a great convenience when the plants are used in decorating, but women always want the moss covered pot when buying a palm.

Speaking of decorating, a place of this class is likely to be called on for all sorts of cut flower work and it pays to understand it. Many local florists in the vicinity of large cities do not make up their cut flower orders, but send into the city for them. This plan has a good many disadvantages, apart from the inconvenience, and we generally find that when the local florist understands this branch of his work, and keeps in touch with floral fashions his customers are rather proud of him as a local institution, and show their appreciation in the form of orders. There is a good deal of funeral work in small towns, and this certainly pays well when the flowers are grown on the place. In a local trade we find that among large designs the pillow out-sells everything else, while the leading favorite in inexpensive shapes is the wreath, broken or entire.

A trade of this class must go in largely for bedding plants, since a large proportion of its revenue comes from that source.



JAPANESE GARDENING. PLATE VI. DAINICHIDO GARDEN, NIKKO.

Taste in such plants seems to run in streaks; one season a certain plant will be called for continually, while the next it may be totally neglected. This season a good many in the trade report an amazing run on heliotrope; this is always a favorite plant, but it seems as if people could never get enough of it. Another very salable thing was Begonia rubra; people like it in baskets or veranda boxes, and as it is always in flower it takes well. Another thing people often ask for—and very rarely obtain—is a hardy fragrant violet.

Our local florist says that it pays to force a lot of hyacinths, tulips and narcissus in pots for the early spring trade; they are readily disposed of, especially around Easter. The hyacinths are planted singly—the other bulbs several in a pot. He does not find it worth while to plant them in flats; single pots sell better in this class of trade. Naturally a good many lilies are used; it would be hard nowadays to find a locality where the Easter lily was unknown.

Though a retailer in the class of trade here outlined will find it necessary to have a few adiantums or pteris, as a whole he will find little call for ferns—it is one of the very few plant families he is not expected to grow extensively. The class of customers he depends on are much more likely to go in for wild plants, if they seek to establish a fernery, and space will be found too valuable to waste on sluggish stock. The returns from such trade depends so entirely on business views both of income and expenses that one can hardly afford to carry anything that does not absolutely pay.

EMILY LOUISE TAPLIN.

Hot Water as an Insecticide.

The simplest things of life are often the least known and understood. Who has not seen the time when the knowledge of some simple little antidote was of more worth than a skillful physician when he came.

The subject before us is upon one of these simple things. Water is so common and its use so little thought about, that we are not apt to stop and consider its value as an insect remedy, although it is a most valuable one. It is always at one's command, costs nothing, and with a few moments heating is ready for application. It leaves no bad effect upon the plant, if not raised to too high a temperature, and none need fear poisoning by consuming the treated plants.

An insect is unable to endure as great heat as a plant. From 130° to 135° Fahr. is sure death to most insects, while few plants are harmed by water at 150°, the scalding point. Even the coleus, one of the most delicate of plants, is not injured by water at 150°. This gives a range of at least 20° between the killing power upon insects and plants. On hardier plants the range is still greater. By practical test I know that water at 180° will not injure cabbages, and presume the temperature might still be raised with impunity.

While not so valuable in treating large areas, on account of the difficulty of maintaining the proper temperature while being carried to a distance, this hot-water remedy should be very useful to florists whose plants are usually in the greenhouse or in the grounds close by.

By occasionally placing a thermometer in the heating water, the desired temperature can be very easily obtained. It should be raised somewhat above the desired point if likely to cool much through transferring or through carrying quite a distance. Water cools quickly — much faster in tin than in wood—and should be applied as rapidly as possible when ready. The application may be made by means of a cup or through a sprinkler, with the cap removed, or a spray pump without a nozzle, or in any manner that may seem most convenient. The water can not be thrown in a spray, but must be thrown in a solid stream, else it will lose its temperature to such an extent as to become ineffectual. If much hose is used the decrease in temperature, by its passage through the hose, must be considered.

The farmer with his little patch of cabbages in the garden finds there is nothing equal to hot water for the destruction of the green cabbage caterpillar. Our long-legged, hard-shelled, ever-hungry rose chafer is another insect quite sus-

ceptible to hot water. The poisons that we usually expect to kill such insects are ineffectual here.

We found last year in our experiments that kerosene emulsion, when well applied, would kill the most of the "chafers," and that pyrethro-kerosene emulsion was still more effectual. When hot water at a temperature of from 130 to 140 degrees was poured onto them, they yielded to the inevitable without a struggle. For field use one of the forms of kerosene emulsion seems to be the more desirable, but for use in a small way hot water is the remedy.

This same hydropathic treatment is the best remedy I know of for the mealy bug. Although our florist has not had the opportunity to use this remedy on an extensive scale, yet it has been used enough to know that it is a practical remedy. When water at 135° strikes the mealy bug, it loses its white coat and its life at once. We have tried many remedies, but none seem as promising as this.

Plant lice or "green fly," quickly succumb under its influence. Kerosene emulsion is probably the best all around remedy for these pests, but some of the most delicate of plants, like those of the coleus, can not endure the use of the emulsion at its proper strength. Should plant lice attack any such plants, in all probability hot water can be made an effectual remedy.

There is often considerable trouble with insects that work under ground on the roots of plants. Many such pests can be treated as well with hot water in their subterranean retreat as above. For such work the water should be almost at the boiling point before applying and then soak the soil thoroughly with it.

To dilate more upon details seems hardly necessary. Do not let so simple a remedy pass without at least a trial.

Agrl. College, Mich. G. C. DAVIS.



The New Enemy.

Mr. W. R. Shelmire, Avondale, Pa., has received the following letter from Prof. C. V. Riley, Government Entomologist, regarding the worm figured on page 1008 of our issue for June 9:

"The insect damaging carnations is the common stalk borer (Gortyna nitela). This insect affects the stalks of tomatoes, potatoes, corn and a number of other plants. It is not surprising to hear of it in carnations, although I do not recollect that my attention has been called to a precisely similar occurrence. The only remedy which I can suggest is to destroy by hand all larvæ when they are detected from the effects of their work. They are not strictly measuring worms (family Geometridæ), but are more closely allied to the cut worms (family Noctuidæ), although they have a looping habit when young."

DO YOU WANT an alphabetical list of carnations in commerce in America with date of introduction and a brief, accurate description of each one, with synonyms noted? You will find such a list in our new trade directory and reference book.

Medinilla Magnifica.

This somewhat old but magnificent stove plant is very seldom seen, but when grown into a specimen of size is certainly one of the most attractive plants we have. Its leaves, of a rich glossy green, and from eight to ten inches long, make it very effective when not in flower. The long terminal racemes of flowers, of a beautiful rosy pink shade of color, lasts a long time in perfection—from April until July.

The plant or "tree" here represented is now nearly twenty years old, and during that period has always produced a certain quantity of bloom, but every alternate year a profusion, proving a season of rest is of importance.

After blooming I usually place it in a partially shaded location out doors and out of the way of sudden blasts of wind; otherwise its beautiful foliage is liable to get riddled. When September arrives it is then replaced in the stove where a temperature of 55° can be obtained during night. When in vigorous growth it delights in plenty of weak liquid cow manure and guano alternately. It is very subject to mealy bug (the curse of gardeners) and requires constant attention, otherwise it will be almost impossible to eradicate the pest after the racemes begin to form.

F. L. HARRIS.

Gardener to H. H. Hunnewell, Wellesley, Mass.

Boston.

Cut flower trade is unusually dull. The school graduations do not seem to have their customary effect upon the demand. The only scarce commodity is white or yellow roses. Of these there are not quite enough to go round and the price obtained for good quality Brides and Perles ought to be very gratifving to the growers who are fortunate enough to have a supply.

Other roses are in over-stock and cheap. Out door roses are in but the quality is rank. Judging from the stuff that has been brought in so far, the rose show next week will not amount to much. Something, possibly the cold winds of March and April, has badly affected all the hardy roses and they are in many cases killed outright.

Carnations never were so abundant. As to quality they are all right, but the quantity coming in is far ahead of the outlet. This is especially true of all the colored varieties.

All the florists, retail and wholesale, seem well satisfied with the season's work. The plant men too, say they have no fault to find with the prices obtained at auction or otherwise. Notwithstanding the very general abandonment of the showy foliage and ribbon bed style of gardening by the best places, yet geraniums, coleuses and similar stock have sold at figures that compare favorably with any past season.

The pink pond lily is in the market in quantity and the demand for it appears to be greater than ever. Peck & Sutherland control the principal stock of it for this city.

The annual visit of the Garden Committee of the Mass. Horticultural Society to Oakmont, the beautiful estate of Mr. Francis Brown Hayes at Lexington, took place on Monday June 13. Accompanying the Garden Committee were the officers and other prominent members of the Society to the number of forty or fifty. On arriving at the grounds the party was conducted to a lunch which was served in a tent handsomely decorated with azaleas, where they were received by Mr. Hayes in a few well chosen words of welcome after which proper attention was given to the comforts spread out on the tables.

The great rhododendron tent was next visited and an hour spent in admiring the magnificent display of these popular flowers. They were just at their best and Mr. Comley has good cause for pride in their appearance this year. Such a mass of vigorous, finely bloomed plants is not to be seen elsewhere in this country. The location is peculiarly adapted to their successful cultivation, it being so irrigated that the ground is constantly moist and the soil just suits the rhododendron.

As an exhibition flower the rhododendron seems to have completely outstripped the rose, its drawing power with the public exceeding by far the old combination of the rose and strawberry.

The Arnold Arboretum is well worthy of a visit now. At present the roses are the great center of interest and it is a rare treat to hear Mr. Dawson talk about them. Some of his crosses are likely to prove valuable, especially those in the multiflora line. The hardy azaleas and philadelphuses have been at their best during the past week. Among the robinias, one called Neo-Mexicana is now in bloom, probably for the first time in the northern U. S.

Among the recent visitors to the Arboretum was Mr. Wm. Falconer of Glen Cove, N. Y. whose intense interest in this class of plants kept him there constantly for two or three days, so that he was prevented from calling on any of his old friends.

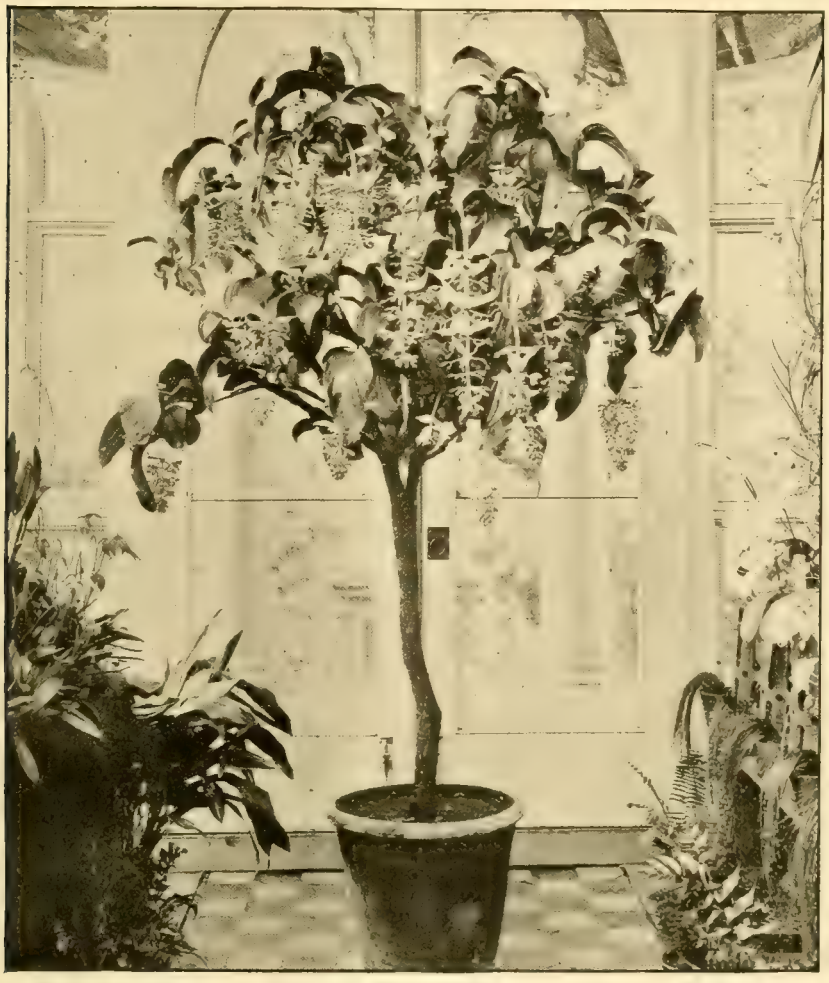
Mr. C. B. Weathered of N. Y. has been spending a week at Boston and Newport, and the always welcome Mr. Hugh Dickson of Belfast, Ireland, is now on the ground and attending strictly to business.

New York.

Flowers are still coming in in great quantity, though trade continues extremely quiet. As might be expected, roses are as a rule soft and poor, but of the Beauty some fairly good ones are being received, considering the time of year. Although the principal crop of out-door roses is off, yet the Jacq. is still coming in plentifully, and where the blooms are good and clean they bring as high as $3 per hundred. On the other hand if they are poor stock $3 per hundred is hard to obtain. Mermets are in the worst condition as to color. Some of the growers continue to send them in, however, packed as carefully as in winter although their time is plainly lost and the immediate destination of the roses must be the dirt barrel.

The quantity of carnations coming to the wholesalers and the market is unprecedented. Nothing like it was ever seen before, and although the quality is fine and many of them have grand stems 18 to 24 inches long, yet the great bulk of them are at present unsold. The Greeks even refuse to make an offer for them. On the streets are to be seen a great many magnolia blooms, which are brought in fairly good condition from the South and which seem to be popular for the moment.

It is surprising to see the quantity of herbaceous flowers in the stores; they make a fine show in the windows. Quantities of purple fox-gloves (Digitalis) were noted in one window—a very showy thing—and there is an infinite variety of spiræa, some of it very dainty. Pæonies are begining to die off now, but they have



MEDINILLA MAGNIFICA.

been very abundant and good. Although this herbaceous stuff can hardly be considered a factor in the flower market it certainly comes in well for window dressing, and that at a time when the weather makes such arrangement a trying matter. Gaillardia is to be seen plentifully—showy and popular.

Ernst Asmus is cutting fine lily of the valley; this is one of his specialities, and he is able to supply flowers when every one else is out of the running. Mr. Asmus sends in a large quantity of roses also.

Hodgson has opened his Newport establishment for the season. He has had a very busy spring in New York, doing a good deal of fine funeral work. An exquisite arrangement for a young woman was a floral casket, and was made of pink and white sweet peas, relieved by adiantum. A variation from this beautiful arrangement was a casket having the lid entirely covered with white roses, while the sides were draped with rose garlands. Mr. Hodgson prefers white or very pale tinted flowers for funeral work. One of his arrangements on a funeral occasion is to cover one wall in the room entirely with white roses, the decoration being confined to that space.

Though most of the season's weddings have been extremely simple in floral decorations a striking exception was the Dinsmore wedding, up the Hudson, which was arranged by Hodgson. The florist was given carte blanche in carrying out his ideas and it is said to have been the most elaborate and costly decoration of the year.

Stumpp is displaying some very fine fancy caladiums.

Scallen shows a lot of good palms, which make a fine appearance in the store.

Siebrecht & Wadley have a lot of good Cattleya Mossiæ in bloom, among them some fine varieties.

One of the decorative art stores was having a run last week on Tillandsia bracteata, which was disposed in various jars or baskets with quite an æsthetic effect. It was correctly labelled and correctly described as an air plant, being one of the epiphytal tillandsias from the West Indies. Whether it really would flower and flourish hung up in a room and fed on an occasional glass of water is a matter of great doubt.

G T. Cottam reports using a good many crotons in his landscape work this season; the plants are hardened off a little in a cool place before planting, and they then stay in perfect condition.

Aug. Rolker & Sons have a suit in progress regarding the duty on imported wheat, they claiming that the wheat should be classed as dried flowers, the duty on which is 20%, and not as straw with a duty of 30%, as has been the decision of the collector.

Wm. E. Nolan, the manufacturer of greenhouse heating apparatus, has won a suit against Frank Maukin, of Brooklyn. Maukin had refused to pay a balance of $300 on a heating contract, claiming that the heat was insufficient and that he had lost a crop of 10,000 roses in consequence. The verdict was for $200.

Ernst Asmus and J. N. May have just returned from the Megantic game preserves where they have been seeking the festive trout. Their faces bear witness to the fact that whatever their luck with the festive trout there is no doubt as to their success with the festive mosquito and black fly. But these disfigurements do not confine themselves to those who go to the woods. Some of the stay-at-homes get their share of trials, as witness Robt. B. Young who has been nursing a beautiful specimen boil on his cheek for the past fortnight and has been threatening to lose his temper in consequence.

A number of the Nyack greenhouses were damaged by hail during the severe storm of June 17.

Alfred Dimmock sailed for the other side on the Etruria on June 18.

J. A. Penman expects to follow him on the City of Paris on the 29th inst.

At the meeting of the Florists Club on Tuesday, June 14, Messrs May, Burns and Taylor were appointed a committee on transportation and hotel, for the Washington convention.

Washington.

Hon. J. R. McLean, of the Cincinnati *Enquirer*, has been unusually kind in offering his park, in this city, corner Florida avenue and 20th street, for the purpose of a reception to the S. A. F., that they may become more intimately acquainted, an excellent thing for us to do. Hope all will attend the reception. Mr. McLean proposes to give us a lunch and will have the famous U. S. Marine Band, that all may have an opportunity to listen to their wonderful rendition.

In an interview with Hon. W. H. Hatch, chairman committee on agriculture, to which committee was referred the application for the national charter for the S. A. F. I am informed that as soon as his committee can get a day in the house under the suspension of the rules, our charter will be one of the very first called from the calendar, and he has not the slightest doubt of its passing. It has passed the Senate. Mr. Hatch says we will have a charter in the very near future. I hope to see it before the convention.

The bill providing for the erection of a building for a flower market, in this city, was called up by Senator Wolcott, June 1, and after a lengthy explanation by the senator, he succeeded in getting it passed by a vote of 35 to 12. Senators Vest, Voorhees, Cockrell, Hawley and a few others opposed its passage on the ground that it was to be erected on a public reservation, at the south-west corner of Penna. avenue and 9th street. The bill carries with it an appropriation of $30,000, one-half of this to be paid from the District revenues, the other from the general treasury. It is to be constructed of iron and glass. This measure has the support and sympathy of a number of the ladies high in social circles. I don't think it will ever become a law. Certainly not at this session of Congress. They can't get it through the House.

C. LESLIE REYNOLDS.

Class designs for commencements must be large, showy and — cheap. Usually they are made up of vari-colored immortelles and Cape flowers, bordered with laurel or ivy, and consist of huge shields, five or six feet high, great placques, or immense streamers extending nearly across a whole stage front—each with appropriate lettering.

Smalls presented something of a deviation the other day in a well-proportioned scroll eight feet high, resting upon a

slanting pedestal, the body made up entirely of ox-eye daisies (of which it required something like eight thousand or more) with the class motto in purple immortelles on the face, the whole presenting a fine effect at a distance.

At Strauss' store I noticed recently another floral ship, some nine feet or more in length and of good design, made up of Cape flowers and immortelles, lettered on the side "El Norte," intended for some launching ceremony.

In the markets flowers are a drug now, roses selling at times as low as $1 per hundred. But really choice material is by no means over-abundant. Z.

Philadelphia.

Brother Watson takes quite an interest in the boys, and is very observing. One day recently he said, "Have you noticed the lofty air with which our friend D. D. L. F. walks up and down Broad street of late?" "Yes, I have, but could not account for it." "Well I think I have discovered the reason of it. You know the new set of the Encyclopædia Brittanica the P. H. S. Library has just got?" "Yes." "Well there are only twenty-nine volumes of it; but his lordship has been submitting himself to the study of it with such application, that he has already got the most of it absorbed into his inner consciousness, with the inevitable result of widening his vision to such an extent that he can hardly stop to speak to any of his erstwhile associates, when he meets them on the street. You boys are not it with him now, I really wonder how he can have anything to do with you whatever."

"Have you heard of Davy Bearn's latest wrinkle? Davy has a field of carnations out there at Bala, and there was trouble about a rabbit that made fraternal visits to the carnations, but not having proper 19th century methods of treating the divine flower, Br'er Rabbit played 'hob' with the proper development of the young plants and there has been trouble. In this emergency, Davy, with his usual acumen, soon found a remedy. He went to work on that rabbit and gave him lessons in deportment, and made him do prestidigatator tricks, and showed him things that he never dreamed of before. Bye and bye he got him to be so expert that he could nip off the proper shoots on those carnations, thereby saving his teacher a vast amount of labor, besides giving himself unrestrained liberty in a most delectable field. So you see there is something in being a philosopher after all. At last accounts Mr. Rabbit was living like a fighting cock at his own expense, and proving himself a gold mine to his employer."

Something up! President Dean, Vice-President Smith, Secretary Stewart and Mr. Hale of Washington are all in town, and holding whispered conversations and looking wise. Secretary Stewart bore a bronzy appearance having just returned from a fishing excursion up in Maine and reports having had great luck. The growers are all very busy now getting their rose houses fixed up and planted for next season.

Harry Michell, the seedsman, reports having had a very good spring. He intends altering the interior of his store in order to gain considerable room. He is a hard worker and deserves to be successful.

Prices of cut flowers do not hold from one day to another at this season. The stock is so poor and the demand so light, that the grower offers his stock at almost any price to effect a sale, and has a bundle or two of some kind of weeds to throw in gratis.

Mr. Lonsdale has some good Brunners from out-side which bring $1.50 a dozen. K.

Montreal.

Planting out is about finished now. Reports so far would indicate about an average season. Very little stuff left over.

The club meeting last Tuesday night was not largely attended, lots of the members not having finished planting out. It was decided to award the prizes at the chrysanthemum show on the point system so all exhibitors will get something. W. Ward read a paper on the gloxinia which brought out considerable discussion. The apple men around here are in a great stew because the Horticultural Society is run by a board of gardeners. They are trying to form another society composed of fruit-growers only, which is a very sensible thing for them to do.

Business has been fairly lively this week owing to weddings. Roses are scarce and of poor quality. At one fashionable wedding the bride carried three dozen Bride roses tied with white ribbon, her dress being all white, while the bridesmaids (4) were dressed in white, with green ribbons and each carried a large bunch of snowballs tied with green ribbons.

Doyle is going to knock the spots off us all this year with his roses. Bland's mums are not very good (so he says), but J. B. will probably get "near it" next November. Walt Wilshire is getting around again. The weather lately has been most favorable for crops. J. B.

Buffalo.

For filling boxes, florists here get 75 cents to $1.00 per foot, according to the breadth of the boxes and the quality of the stuff used. Grevillea robusta is used quite extensively this year, and for the center it is scarcely equaled; light and pretty it stands all weathers. Tuberous begonias also play an important part and are used very largely.

William Scott is building an eight-thousand-dollar residence (a good sign of the times). He will also pull down three of his old greenhouses and rebuild an additional 2000 square feet, for palms and general plants.

Chris Christensen will erect a 100-foot violet house this summer, "the last I can get on an acre of ground," says he.

S. Pickleman, Jr. is scouring the country for a ten-acre lot to build a new establishment for his increasing business. It is likely he will settle in West Seneca, N. Y.

J. H. Rebstock is talking of moving his "city plant" to his country place.

W. J. Palmer will erect two new houses, each 150 x 20, exclusively for growing "mums." B.

Toronto.

Gardens public and private look like gardens now and are gay with flower and foliage beds. The weather has been very hot the last week and bedding stuff has had every chance to grow that could be wished for.

The plant trade lasted just about two weeks but those two weeks were "snorters"; the weather before having been cool people put off planting and then all wanted to be served at once. Retail prices were about the same as last year—some things a little lower perhaps—but the wholesale men are in the blues and say they have made nothing; some prices I heard quoted were certainly "waydown" below the the cost line.

Large quantities of roses are still selling on the market and the stores have had to follow suit with regards to prices and I have noticed several cards in the windows "Your choice 50 cents a dozen". Of course at this price they sell like hot cakes. E.

Baltimore.

At the club meeting Monday night the general desire seemed to be to get through with what little business there was and get out in the open air again. All hands were hot, but the fat men fairly sweltered, and, as our worthy president is getting dangerously near that category, and there are some more pronounced cases than he, a motion to adjourn was hailed with evident relief and ended the shortest meeting of the year.

A visit to Mr. H. A. Parr's place, which is presided over horticulturally by our librarian Mr. Chas. M. Wagner, showed some chrysanthemum plants well advanced in growth and looking very strong. Mr. Wagner says he can not keep Jno. Firth from blooming; it seems an everbloomer with him, for it had a fine flower nearly open and has produced equally fine ones during the spring. There were many other things worth a mention, particularly the orchids, among which were fine specimens of Lælia purpurata and Cypripedium barbatum superbum in bloom; and the grapes which were fine; but the chrysanthemums were ahead of all and showed evidence of most careful cultivation.

The excessive heat, above 90° almost every day, is driving society out of town entirely, almost the only event of importance being a wedding which was decorated by Brackenridge & Co. MACK.

A Bowling Match.

A delegation from the Washington and Philadelphia Florists' Clubs visited Baltimore Thursday afternoon, June 16, and together with the bowlers of the Baltimore Florists' Club engaged in a match game of ten pins. For a trophy each club put up one regulation ten pin ball, the winner to take all three.

The conditions of the match were that each club was to roll three games, each game on a separate pair of alleys, and the club having the highest total score to be declared the winner. It was also understood that each club was to bear equally the expense of the alleys, but when the match was over the big hearted Baltimoreans wouldn't have it that way, and insisted that they never agreed to any such arrangement and the other clubs had to submit.

The match took place at the Monumental Bowling Alleys. There is probably no better place for a match of this kind; the building is large and roomy and contains four pairs of alleys. There are two immense fans the length of the building which during the game kept up a refreshing breeze and made the place much cooler.

When the Philadelphia contingent arrived they found the Washington boys hard at it; they were very sorry to find Mr. Freeman, their chief, was not with them, he being detained on account of

business and sickness in his family. While waiting for the local players to arrive the "Senators" and the "Phillies" engaged in a social preliminary bout, in which the Phillies got a little the best of it, although the Senators showed up well and the Phillies saw they would have to "play ball" to win.

The first game of the match was now commenced although Baltimore had to put in some substitute players, their full team not having arrived. The toe line was placed at 57 feet from head pin. This did not give much room to run (about 7½ feet); the space in front was about eight inches below the level of the alleys and a player who likes a run is placed at somewhat of a disadvantage.

The first game was Phila.'s from start to finish, they coming out ahead with a lead of 128 pins over Washington, who beat Baltimore by 198 pins. Brown of Phila. was top man with 204, Kift second with 175 and King of Washington tied with Longinette for third place with 173.

Washington said, "that's a big lead but there's two more games," and the Baltimores said they were going to do better, and they did, for in the second game they made 911, 209 more than their first, while Washington lost 71 pins, making 829. Phila. gained 34, making 1062; they had also the three highest scores, Kift 213, Westcott 186 and Brown 181.

The Baltimore men were very much encouraged with their great gain and determined in the last game to beat Washington out sure and get second place, but they fell off while their opponents gained considerably. The score for this game was Phila. 994, Washington 972, Baltimore 845. Westcott was first with 198, King second 190, and Brown third 175.

SCORES.

	1st.	2nd.	3d.	Total
Phila.	1028	1062	994	3084
Wash.	900	829	972	2701
Balti.	702	911	845	2458

Phila. beats Washington 383, Washington beats Baltimore 243. Scorers: W. K. Harris for Washington, J. Clark for Baltimore, W. Gude for Phila.

As it was still early Baltimore and Washington proposed another match for a trophy of two regulation balls, conditions same as first contest. This proved to be a "Battle Royal" between Washington and Philadelphia. The Senators started off in great shape as though they were going to land this prize sure and the Phillies got a trifle "rattled," but after the fifth frame they braced up and following Brown, who got above the double century for the second time, they pulled out ahead by 42 pins, Baltimore following Washington, 216 pins behind.

The score: Phila. 996, Wash. 954, Balto. 738. Brown with 205, Kift 179 and Heron 175 were first, second and third in this game.

Phila. thought that one game was to decide this match and Longinette supposing his side to have won let himself loose in celebrating the victory, and it took the united efforts of Messrs. Westcott and Harris to repress his enthusiasm. It really seemed as if he was trying to let the boys at home hear the good news. However, when they found there was still another game to roll they pitched in at once as it would soon be train time. The boys were all getting pretty tired and it began to show in their scores. It looked at one time as if Washington was going to capture the prize, but that little "brace" was taken on again and thanks to Longinette who had got his second wind and was rolling in great shape, the Phila. boys won the second match with 24 pins to spare.

Score: Phila. 942, Wash. 954, Balto. ——. In this game Longinette was first with 201, Oliver second with 168, Brunger third with 167. Total both games second match Phila. 1938, Washington 1914, Baltimore ——. This was without Baltimore's last score, which we neglected to get being in such a hurry to make the train. It must have been a good one judging from their enthusiastic shouting; they had strengthened their team for the last game, trotted out their Buffalo Bill to shout for them and were "right in it."

Just before the games were finished Mr. Hale, of Washington, brought Mr. Smith, from the Botanic Gardens, to the scene; he was received with applause and handshaking all round.

At the conclusion of the match hearty cheers were given for Baltimore, Washington and Philadelphia in turn. Mr. Westcott mounted a bench and thanked the Baltimoreans on behalf of the Philadelphia club for their elegant reception and generous treatment and said he hoped to get a chance back at them in the near future. He gave any or all of them an invitation to visit the Phila. club and assured them they would be well treated.

The local club seemed unable to do enough for their visitors. In fact we feel sure their scores would have been much better had they not paid so much attention to looking after the comfort of others.

It was a visit that will long be remembered with pleasure by those present, and the Phila. boys will have a constant reminder in the new balls, with which they expect to get in great shape for the tournament during the convention. K.

THE SCORE.

Philadelphia.				2nd match.	
Kift	175	213	173	179	161
Heron	147	176	129	175	139
Craig	159	164	164	150	140
Brown	204	181	175	205	141
Longinette	173	142	155	152	201
Westcott	170	186	198	135	160
	1028	1062	994	996	942
Totals			3084		1938
Phila. wins by 383 pins.				Phila. wins by 24 pins.	
Washington.					
Bowdler	144	156	158	170	156
Oliver	125	131	174	133	168
Brunger	160	160	139	139	167
Cook	147	115	154	166	161
Gude	151	114	157	172	166
King	173	153	190	174	142
	900	829	972	954	960
Totals			2701		1914
Washington beats Baltimore 243.					
Baltimore.					
Frederick	123	145	104	115	
Bauer	108	145	146	108	
Halliday	134	140	139	149	
Kress	110	141	135	119	
Wiedey	109	179	169	146	
Hess	118	161	152	101	
	702	911	845	738	
Totals			2458		

IF YOU have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

H. AUGUSTINE, Normal, Ill., president; Z. K. JEWETT, Sparta, Wis., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A. WHITNEY, Franklin Grove, Ill., treasurer. The Eighteenth annual meeting at Chicago, June, 1893.

Notes from the Arnold Arboretum.

A man nowadays must not stay home all the time and rust; it will benefit both his mind and body to get out and see what other folks are doing. And this is why I paid a flying visit to the Hub and to the Arboretum, the Mecca of every tree man. Jackson Dawson may be a big man and a fat one, but the way he can tear along through mud and mire, over hill and dale and rocky brae would make Rowell himself pant and perspire, let alone a poor mosquito-eaten body from Long Island. But the pleasures of the head have little thought for the fatigue of the body, and as humming birds flit from bloom to bloom to sip the nectar of the flowers, so we sped from tree to tree and shrub to shrub to note, compare, admire, and, in my case, with covetous propensities, often wish I had another of the same at home.

To Mr. Dawson I tender my sincere thanks for his kind attention to me, and to Mrs. Dawson for her warm hospitality.

"PRUNUS SIMONI is one of the meanest things that have ever been put into existence, it is neither good for one thing nor for another." So said Jackson Dawson.

PRUNUS MAHALEB PENDULA makes a very pretty weeper if worked at the ground and trained straight up.

PRUNUS GRAYANA from Japan, is one of the earliest to bloom of the Padus group. Of course it was long past blooming when I saw it, but I couldn't help thinking how much it resembled Maackii.

SPIRÆA CHAMÆDRIFOLIA was in good bloom, also several other very distinct forms of it, one called flexuosa being quite marked.

SPIRÆA CANA was past. A variety of it called savranica, with smaller foliage than the type, had still a good many blooms upon it.

SPIRÆA JAPONICA VAR INDICA was full of small corymbs of white flowers. It is a very pretty and worthy shrub, and not much like Japonica generally, besides its earliness to bloom is remarkable.

SPIRÆA PUBESCENS from the mountains of Pekin is considered one of the best of the early blooming species.

SPIRÆA TOBOLKSII is in general appearance very much like S. sorbifolia, but it is two weeks later in blooming. Here, as they are grown side by side, the difference is positive.

SPIRÆA OPULIFOLIA NANA is a vast improvement upon the common rank-growing ninebark. It makes a bush of about four feet high, with arching shoots, more densely flowered than the species, and altogether it has a more refined appearance.

SPIRÆA TORREYI belongs to the same section as opulifolia, and is a small, early blooming shrub well worth having.

RUBUS NUTKANA isn't very popular because it isn't very hardy. When it gets hurt in winter it doesn't bloom the next season, but lay down the canes in fall and cover them with some earth as one would raspberry canes, and they winter perfectly and bloom fine the following summer.

POTENTILLA FRUTICOSA FLORIBUNDA is a

form got from a German nursery. It looks to be a better shrub than the type; while it may not be more abundant blooming than the wild plant, its flowers are very much larger and showier and its foliage lustier.

CYDONIA JAPONICA, VARIEGATED. — I noticed two forms: One was of moderately rank growth and had large leaves, the variegated foliage was all pink or all white, or all white and pink, that is, there was no green in them; these colored leaves come out prettily in spring, but soon perish. The thing is no good. The other was a lesser and bushier plant after the fashion of Cydonia Maulei, and its variegation was exceedingly beautiful, and Mr. D. says it keeps well all summer. The leaves are pink, white and green, all prettily mottled or marbled, the white and pink prevailing. But there is green enough in them to keep them healthy.

CYDONIA MAULEI "SUPERIOR" is an unusually fine form of this popular shrub.

AMONG PHILADELPHUSES, P. coronarius var. Schrenkii was noticeable as being the earliest of all. Mr. D. recommends it as a shrub for forcing for Easter or earlier.

HYDRANGEA VESTITA, var. pubescens was a big, bushy plant, 6 or 7 feet high, full of flower buds, and now begining to bloom. It is the earliest of our hardy hydrangeas, comparatively new, and worth having. Mr. D. says he doesn't think the typical vestita has yet been introduced; all our plants are of the variety pubescens.

HYDRANGEA RADIATA, one of our wild species, is worth growing in our shrubberies, and its variety nivea is very much better because of the very much greater whiteness of the under side of its foliage. Not nearly in bloom yet.

RIBES SAXATILE isn't much of a shrub to look at, and its yellowish-green flowers, which are produced in early spring, have nothing to commend them in the way of beauty, but Mr. D. says, "get that and plant it and be good to it, for when it is in bloom we have nothing like it for fragrance, it scents up the atmosphere for rods around."

VIBURNUM CASSINOIDES, the broad-leaved variety of it, from Vermont, is better and more ornamental than the common type. Planted out in the Arboretum it is now everywhere in bloom, and what a showy wild shrub it is too.

VIBURNUM LANTANOIDES, true, was out of bloom. It is a shrub of marked appearance, with large foliage, but I never saw a handsomer specimen plant of it. Why will some of our nurserymen persist in selling V. Lantana for lantanoides? The two shrubs are about as much like one another as are beans and potatoes. Don't take it for granted that your customers are all so ignorant that they don't know the difference between them.

LONICERA CILIATA is one of our early blooming, wild bush honeysuckles, and a poor enough thing too it is when in bloom, but now its beauty is very conspicuous for it is full of bright coral-red fruit that shows up handsomely among the scant foliage. While not desirable for small gardens where deutzias, spiræas and azaleas are better fitted, in parks and large gardens this fly honeysuckle deserves full recognition.

LONICERA TARTARICA NANA "is a real cute little thing" about 2 feet high and full of blossoms.

LONICERA MAXIMOWICZII is a bush honeysuckle now in good bloom; its flowers are reddish purple and in pairs.

LONICERA IBERICA is another bush honeysuckle and the latest of all to bloom, it isn't nearly out yet.

LONICERA QUINQUELOCULARIS is a bush honeysuckle with yellowish-white flowers now opening, and later on it will have white fruit. While these late blooming bush honeysuckles have a certain ornamental value, I would not class them as A 1 shrubs for the nurseryman to handle.

BOX ELDER, VAR. "ARGENTEA MARMORATA" is a variety with white margined leaves, but the variegation is much less pronounced than in the common variegated box elder. This is of much value, because the trouble with the old form was that it had got so very much white in its leaves they always got scalded in summer, often early in June, hence how little it is called for or used. But this new form, Mr. D. assures me, stands the summer perfectly, and its foliage continues untarnished thoughout the hot weather.

WEIGELIA CANDIDISSIMA, Mr. Dawson considers is the best of all the white weigelias, for it is the hardiest. True for the north, but in the south I should say hortensis nivea is the prettiest. When in perfect health and full bloom we have no weigelia to equal this last named variety, but alas, even on Long Island, it does get considerably winter-killed.

ANDROMEDA JAPONICA VARIEGATA.—Mr. D. showed me the variegated-leaved form and insisted that it is hardier than the plain green-leaved one. The same thing is noticeable in the variegated English yews, of which the golden-leaved forms are hardier than the green ones.

HARDY HEATHS.—They have quite a large group of these, and many of them have now become large mats. But Mr. D. is annoyed about them. Last winter the field mice took up their winter quarters in these heather patches and paid for their shelter in the most villanous mischief their little minds and lance-sharp teeth could devise and accomplish. They cut and peeled the heather on every hand, tunnelled hither and thither all around their individual homes, and cut visiting burrows to their neighbors'.

LEIOPHYLLUM BUXIFOLIUM, the sand myrtle from New Jersey, a very neat and pretty little evergreen, was going out of bloom. Does well in cultivation, but too small to handle with profit except as complementary to other stock. The same may be said of Ledum latifolium, which was in bloom. These little shrubs are gems for a rockery, but require special places if to be planted in the open garden. There's no money in them.

PACHYSANDRA PROCUMBENS is a little spreading evergreen plant from Japan, and very desirable on account of adaptability for spreading under the shade of trees after the fashion of pyrolas, wintergreen, and the like. Mr. D. is getting up a big stock of it for this use in the Arboretum. There is also a variegated-leaved form of it in every way as thrifty as the green one.

JASMINUM FRUTICOSUM. — Under this name quite a pretty little shrub with yellow flowers was blooming nicely in a bed. It is protected in winter by bending it down onto the ground and covering it with a few spadefulls of dirt as one would a grape vine or raspberry cane.

CLETHRA TOMENTOSA.—"That clethra there is a southern species, but it seems to be hardy enough here; it is a very beautiful form and blooms later than alnifolia or acuminata," said Mr. Dawson.

CLETHRA BARBINENSIS from Japan "isn't quite hardy here, but if we winter it in a frame and plant it out in summer it will bloom very well." Sorry to hear it isn't quite hardy at Boston for I had been building quite a store upon it; so far it has lived well with us at Dosoris, in a sheltered place, and it blooms nicely in summer.

LIGUSTRUM VULGARE GLAUCUM FOL. ALBO-MARGINALIS! Am not I glad I'm off of that Nomenclature Committee. Such a name for a common privet, with a faintly defined white edging on its leaves! Now that's a nurseryman's name. But there isn't a live nurseryman in this country who doesn't know that a name like that would kill the sale of the finest shrub on earth. Give us every time a happy name to insure a big sale.

VINCA MINOR with double flowers. "That bed of vinca there is of a double blue variety. When in bloom the flowers are as like double blue violets as two peas in one pod; indeed if picked and bunched with violet leaves around them, you'd have to look twice before you could tell they weren't violets." Now florists don't take this hint and adulterate your violets, leave such rascally tricks to the grocer and milkman.

LYCIUM CHINENSE.—"Say what you will, Lycium Chinense has far larger fruit than Lycium vulgare, and its fruit laden vines too, are very much longer and more abundantly berried than those of the common matrimony vine." So said Jackson Dawson.

ARISTOLOCHIA PUBESCENS is coming into flower nicely. This is not common in the northern states.

SMILAX PSEUDO-CHINA.—For vigor and fine foliage this is the handsomest of all the hardy catbriers.

BAMBUSA TESSELLATA may wake up to something good, but so far B. Metake takes the lead in the way of hardy species.

THREE DWARF ELMS appeared to me like sour grapes to the fox. One is umbraculifera which we have got, and the other two are a pigmy from off the Scotch elm and another of the American elm. Where elms thrive these would be desiderata, but on Long Island we have stopped for a time planting any more elms on account of that insurmountable pest the elm-leaf beetle. She has been here already this year. She came in May, ate holes in all the leaves and laid eggs on the under sides, and then went away to die. But in a week or two from now the trouble will begin in earnest, for the eggs will be hatched and millions of larvæ will have to be fed. Antidotes! Yes, lots! But when you take hold of a lot of big elms in an infested district and clean them or keep them clean, please send for me about the middle of July and show me your work, for I am real anxious to see done by others, in fact, what I myself have been absolutely unable to accomplish.

ACER SPICATUM.—I never saw this little mountain maple so pretty before. In the front of the shrubberies it was planted here and there and had formed considerable bushes, and these were now in such full bloom as to demand attention. Of course the individual flowers don't amount to much, it is their vast quantity that rivets the eye.

PRUNUS MUME.—Mr. D. recommends it for forcing.

VIBURNUM CASSINOIDES, VARIEGATED.—In a batch of about five hundred seedlings Mr. D. got a very decidedly variegated-leaved variety.

BERBERIS THUNBERGII, VARIEGATED.—A prettily variegated-leaved variety of this Japanese shrub is also one of the garden novelties at the Arboretum.

A KENTUCKY COFFEE TREE (gymnoclades) FROM CHINA.—Several young plants of it have been raised from seed sent from China. While in its youth it looks much like its American relative, the under side of its leaves have a strong violet-blue shade.

CORNUS BAILEYI.—I came upon a plant of this, so-named, and brought over a piece of it to a batch of seedling stolonifera and asked Mr. D. to show me the difference between them. "Now stop this fooling," he exclaimed, "the weather is too hot and muggy for joking."

ÆTHIONEMA CORDIFOLIA is a little hardy plant now full of rosy lilac flowers. A big mat of it caught my eye. "If you want to succeed in growing that plant well and keeping it over year after year cut it in every year."

HELIANTHEMUMS are a lot of little mat-like wiry plants of a shrubby order that are very beautiful now in open sunny spots. "Keep them also cut in every year" suggested Mr. D. "and never plant them where water can lodge about their roots."

FENDLERA RUPICOLA with long wiry shoots covered with white flowers was quite pretty.

VACCINEUM STAMINEUM is a little wild shrub of the blueberry order and has silvery white flowers in great numbers. They had the finest specimen of it I ever saw and it was very charming indeed. It does very well with us too, but our plants are much smaller. While admitting its exquisite beauty when in its best condition in my opinion it is too slow growing and not loud enough for the popular taste.

A DWARF Leucothœ Catesbæi was markedly different in size from the type, being ever so much smaller.

LESPEDEZA VIRGATA was a little spreading plant from Jesso and shown to me as something quite beautiful, being covered with little purple flowers later on.

LILAC VIRGINITE with double pinky white flowers was the best of its class in bloom; Leon Simon was not so pretty; and azurea plena had mean, little, short tubed double flowers. Most of the other lilacs had gone out of bloom.

BERBERIS VULGARIS VAR. PROVINCIALIS is the best fruiting form. It might be worth while to introduce it as a berry bearing plant.

DWARF RHODODENDRONS as ovatum and ferrugineum were nicely in bloom, so too was R. punctatum. The latter isn't iron clad.

NAMED RHODODENDRONS.—Among the best in bloom at the time were H. H. Hunnewell, Henry Ingersol, Sefton, Lady Armstrong, Alexander Dancer, C. S. Sargent, Champion and Ralf Sanders.

WILD ROSES.—Among the host of different species in bloom were blanda, Nutkana, grandiflora, multiflora, Fendleri, cinnamomea, rugosa and its forms, spinulifolia, dumetorum and alpina. Rosa acicularis was the earliest of all to bloom.

HYBRIDIZING ROSES.—Mr. Dawson has done a great deal in this line and achieved some remarkable results. He has enlarged the blooms of rugosa and deepened its color, doubled and increased in size of blooms of multiflora, and so on. But he tells me he can only hybridize these roses satisfactorily indoors; outside plants no matter how carefully pollenated are very shy at crossing. WM. FALCONER.

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150	Gloire de Dijon	3 cts
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PERLE DES JARDINS	3.00	4 00
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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WE SHALL HAVE a great photograph album for our convention supplement. We already have nearly 200 photographs and they are coming by every mail. Please send *yours* in now as it is desirable to have all in hand before we begin engraving. From the number of newly taken photos we have received we judge our identification plan has been of decided benefit in stirring up those in the trade to have their photos taken. One gentleman writes that his wife expressed herself as under lasting obligations to us for getting him started on a long contemplated trip to the photographer's, and several when sending photos note that it is the first they have had taken in many years.

WE HAVE received from Messrs. Rea Bros., Norwood, Mass., a few flowers of Achillea mongolica, which they advise us is with them much earlier than either A. ptarmica fl. pl. or A. serrata fl. pl. They find it perfectly hardy, very free flowering on long stalks and it lasts well when cut. The flowers are single, of good size compared with other achilleas and are certainly very persistent as the petals did not drop even after the blooms sent us had completely dried.

THERE HAS been a change in the Dingee & Conard Co., West Grove, Pa., Mr. Conard withdrawing from the firm.

Directory Corrections.

At Marshalltown, Iowa, erase the Marshall Floral Co., and J. F. Smith, as both are now out of business.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

WANTED—Boiler (cast) to heat 4,000 feet of glass. Address CHAS. POMMERT, Greenfield, O.

WANTED—To buy or rent greenhouses around Chicago. Address Box 11, care Am Florist.

WANTED—At once. Good, sober man to take charge of violets and chrysanthemums. F. BURKI Bellevue, Pa.

WANTED—A good second-hand Carmody boiler, 9 or 10 section, and 450 ft. of 4-inch pipe in 10 ft. lengths, and fittings. Address C. J. HORLACHER, Dayton, Ohio.

WANTED—A reliable, sober and pushing man (single preferred), who knows all about raising cut flowers, roses carnations and violets. Address PITT, care American Florist, Chicago.

WANTED—Gardener to take charge of private grounds in suburb of Chicago. Address with recommendations and wages desired. A B C, care American Florist, Chicago.

WANTED—A foreman well acquainted with propagation and growing of bedding plants. Must be well recommended. Good salary and steady work. Address A. E. WOHLERT, Gardener to P. R. R. Co., Altoona, Pa.

WANTED—By July 15th, experienced rose grower to take charge of five rose houses; married man; must be sober, well recommended and understand his business. Address F. BURKI Bellevue, Allegheny Co., Pa.

WANTED—A man to take charge of a commercial plant of 14 greenhouses, to grow mostly cut roses and small rose plants. Prefer married man. Must have good references—others need not apply. Address LAROCHE & STAHL, 1237 Chestnut St., Philadelphia, Pa.

WANTED—At once; reliable, energetic gardener who understands roses, carnations, and in fact every branch of the business. Must be well recommended and good worker; also taking entire charge when required. Wages $50 per month to start. BEERS' FLORAL CO., Bangor, Maine.

WANTED—Man who understands the care and cultivation of shrubs and ornamental trees. Capable of handling the best trade, in three western cities. To the right man a good paying position guaranteed, by one of the largest firms in the country. Address SHRUBS, care American Florist.

FOR SALE—Greenhouses and stock. For particulars, address W. S. SAWYER & Co., Lincoln, Neb.

FOR RENT—Greenhouse and stock to responsible party that can give security or buy stock. Address at once, 216 9th street, Sioux City, Iowa.

FOR SALE—Only greenhouse establishment in growing western city of 15,000 inhabitants; 3,000 feet of glass; large stock. Address THORP, Florist, Trinidad, Colorado.

FOR SALE—Glass, heating outfit and plants from six greenhouses. Must be moved from present location. Wholesale shipping trade, growing rapidly. NEW JERSEY, care Am. Florist.

FOR RENT—Five brick greenhouses, already stocked; one 20x40, three 20x60 and one 18x30, with 6-room brick dwelling, nicely located in city of 65,000. Address C. G. TURNER, 1513 Franklin St., Wilmington, Del.

FOR SALE—Rose growing plant containing 25,000 square feet of glass, with property, situated 25 miles from New York City; stock and houses in A1 condition; plants are growing for next season's planting, mostly Am. Beauty and La France. Will sell on easy terms. Address ROSE GROWER, care American Florist.

WANTED.

1000 3-inch roses; 1000 small carnations and other stock to start greenhouse. Address with sample and prices, 216 9th Street, Sioux City, Iowa.

WANTED.

Twenty large EUPHORBIA SPLENDENS. Name size and price.

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FOR SALE.

Several hundred A No. 1 Brides, Mermets and Wabans, $4.00 per 100 for 2½-inch pots; $7.00 per 100 for 3-inch pots.

F. BURKI, Bellevue, Allegheny Co., Pa.

Closing Out Sale.

I have four Hitchings Hot Water Greenhouse Boilers, in good order, for sale—Nos. 15, 16 and 19. Also 4,000 or 5,000 feet of 10x12 single thick glass, 300 1 year old smilax roots, 100 calla bulbs, 2,000 flower pots from 2 to 6 inch. Any and all of the above list I will sell for half the wholesale market price. Address

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Roses, Brunners	12.50
" Beauties	15.00
" Mermets, Brides	3.00@ 4.00
" La France, Albany	3.00@ 4.00
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The Seed Trade.

The Hartford Conve. tion.

The tenth annual meeting of the American Seed Trade Association convened in the Allyn House, Hartford Conn., Tuesday, June 14. The following members were present or represented (with others admitted as below). John H. Allan & Co., Picton, Ont.; C. L. Allen, Floral Park, N. Y.; F. Barteldes & Co., Lawrence, Kan.; Alfred J. Brown, Grand Rapids, Mich.; J. Bolgiano & Sons, Baltimore,



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Md.: D. I. Bushnell & Co., St, Louis Mo.; W. Atlee Burpee & Co., Phila., Penn.; A. N. Clark, Milford, Conn.; E. B. Clark & Sons, Milford Conn.; John Lewis Childs, Queens, N. Y.; Comstock, Ferre & Co., Wethersfield, Conn.; E. Decker, Wethersfield, Conn.; Weeber & Don, New York City, N. Y.; Z. DeForest Ely & Co., Phila., Pa.; Frank T. Emerson, Omaha, Neb.; T. N. Griswold & Co., Wethersfield, Conn.; Johnson & Stokes, Phila., Pa.; S. F. Leonard, Chicago; W. H. Maule, Phil., Pa.; F. E. McAllister, New York City; J. Chas. McCullough, Cincinnati, O.; Wm. Meggat, Wethersfield, Conn.; Edward B. Parsons, Falsington, Pa.; Pitcher & Manda, Short Hills, N. J.; W. W. Rawson, Boston, Mass.; C. A. Reeser, Springfield, O.; J. B. Rice & Co., Cambridge, N. Y.; R. A. Robbins, Wethersfield, Conn.; The Steele Bros., Co. Limited, Toronto, Ont.; Storrs & Harrison Co., Painesville, O.; J. C. Vaughan, Chicago; S. D. Woodruff, Orange, Conn.

President F. W. Barteldes occupied the chair and Secretary Don was present. The following new members were admitted, enlarging the roll to the creditable total of over one hundred members: C. C. Morse & Co., Santa Clara, Cal; Trambull, Strean & Allen, Kansas City, Mo.; H. W. Buckbee, Rockford, Ill.; Taylor Bros., Camden N. J.; H. Phillips Seed & Implement Co., Toledo, O.; H. Michell, Phila., Pa.; H. G. Faust & Co., Phila., Pa. W. Elliott & Sons, New York City; John S. Pearce & Co., London, Ont.; F. R. Pierson Co., Tarrytown, N. Y.; Phil. Stimmel, Omaha, Neb.

The absence of Messrs. John Fottler, Albert McCullough and W. Atlee Burpee was much regretted.

The general business of the convention was most satisfactorily handled by President Barteldes.

Election of officers for the ensuing year resulted as follows: President, J. C. Vaughan, Chicago; Vice-Pres., Z. De-Forest Ely, Phila.; Sec'y and Treas., A. L. Don, New York City.

Brief minutes of such of the transactions of the association as are available for general publication will be noted in our next issue.

WE ARE in receipt of some good stalks of celery from Geo Hancock, of Michigan. The foliage has a decidedly variegated appearance, being splashed green and white. Mr. H. claims earliness and quality in addition to the variegation. We can see no advantage in the latter peculiarity over existing lighter sorts. If its earliness has been proven in a careful comparative test with other early kinds, it may be valuable in that regard. There is too great a tendency to multiplication of names nowadays without multiplying advantages.

WRINKLED PEAS are reported to have suffered seriously in vicinity of Cape Vincent from heavy rains.

BOSTON.—John Fottler, Jr. has gone to the St. John river, P. Q., to fish for salmon.

CHICAGO.—Mr. A. D. Perry, of Syracuse, is in the city, but says he is not a delegate.

AN ADVANCE list of premiums to be awarded at the second annual chrysanthemum, carnation and orchid exhibition of the Bay County Hort. Society, at Bay City, Mich., next November, has been issued. Prizes, so far as arranged, amount to $1,028.50. Copies may be had on application to the secretary, Mr. T. J. Cooper, Bay City, Mich.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

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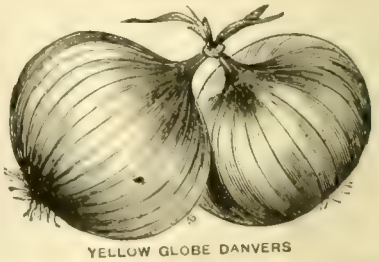
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3. What causes mildew to gather on the pots of some of my palms? Plants are apparently perfectly healthy and flourishing. Will it prove injurious to the plants? H.

1. After blooming the genista should be cut back moderately so as to induce a bushy growth, and as soon as the young shoots are fairly started the plants may be re-potted and the pots plunged in ashes or soil as may be most convenient in some partly sheltered location outdoors. Genistas are not strongly recomended for house plants, but may be so used with a reasonable degree of success.

2. It is not uncommon for the tips of the leaves of Curculigo recurvata to turn black, though the trouble may have been aggravated by too much water during the winter.

3. The mildew, so called, on the pots, is probably caused by decaying woodwork of the bench on which the plants stand, and if allowed to remain in the pots will more than likely injure the roots. A good watering with lime-water may kill the fungus in the pots, but the better way would be to remove the cause, by cleaning off the bench thoroughly and giving it a good coat of whitewash. T.



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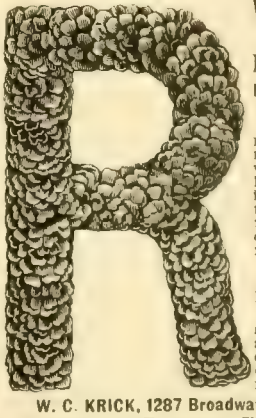
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Foreign Notes.

AN International Botanical Congress will be held at Genoa, September 5 to 10.

CYCLAMENS with the fragrance of the violet are promised us by an English plantsman.

THE National Chrysanthemum Society of England now has 656 members, and the number of affiliated societies is 87.

MESSRS. Jules DeCock and DeSmet, of Ledeberg, Ghent, Belgium, have been made Chevaliers of the Order of Leopold.

THE ANNUAL exhibition of the Royal National Tulip Society of England was held at the gardens of the Manchester Botanical Society, June 8.

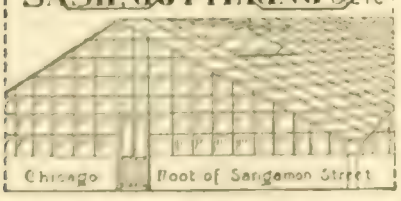
THE carnation growers of England are suffering severely from the ravages of what they term the carnation maggot. It is supposed to be the larva of some small fly that deposits its eggs in the base of the leaf in spring.

IN ITS issue for May 28 the London *Garden* prints a list of about 100 American chrysanthemums that have been found to be of value to English growers, and speaks approvingly of the excellence of new American sorts. Our system of registration is also commended, but we are urged to "attempt something like classification" in announcing new flowers.

THE LONDONERS are now enjoying a rather odd combination in the way of an exhibition. It is called the "International Horticultural Exhibition and Buffalo Bill's Wild West." But sad to relate, according to the local daily press, the posies are relegated to the position of second attraction, while the mass of the visitors miss no detail of the reckless William's turbulent display.

AMONG the plants that were given first-class certificates at the recent Temple show of the Royal Hort. Society of England were Pteris tremula densa, Tradescantia reginæ, Azalea Mrs. Anthony Waterer, Pteris serrulata gracilis, Selaginella elegans. Awards of merit went to Begonias Leopold Rothschild, Duchess of Westminster, Picotee and Laing's Triumph; Tree Pæonias Snowflake and Orme; Tea rose Princess May; Gloxinias Clio, Cicely and Claribel; Carnations Mrs. H. Cannell and Mr. G. Devas; Dracæna Bartletti; Croton Reidii; Lobelia Barnard's Perpetual; Pelargonium Princess May.

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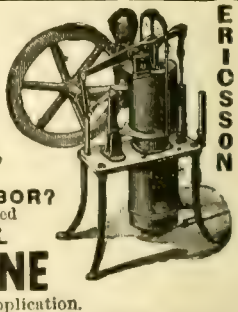
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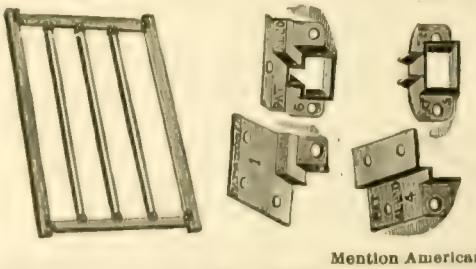
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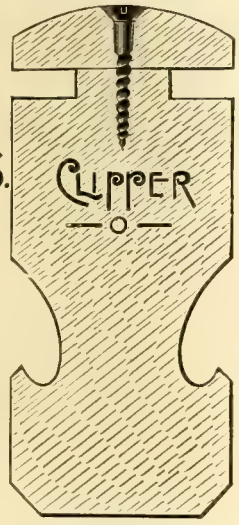

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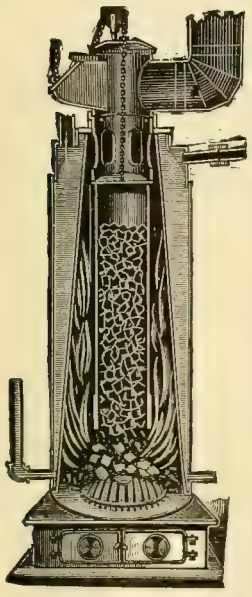
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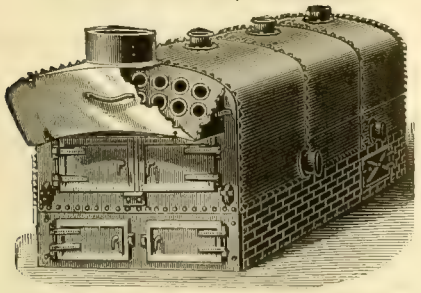
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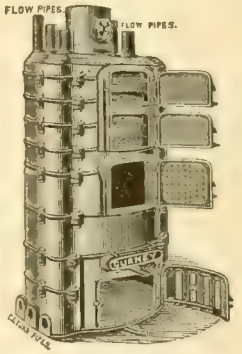
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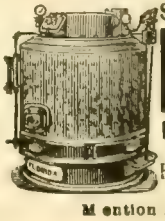
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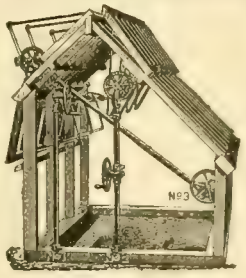
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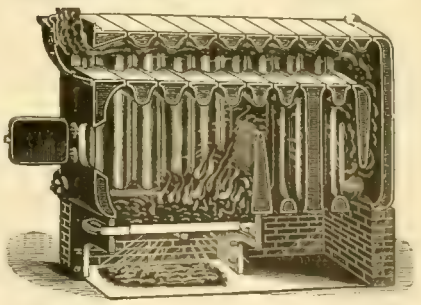
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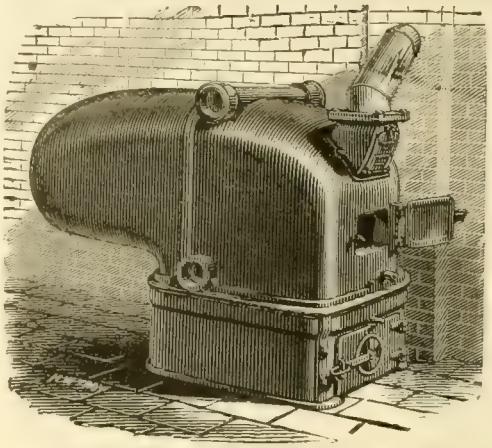
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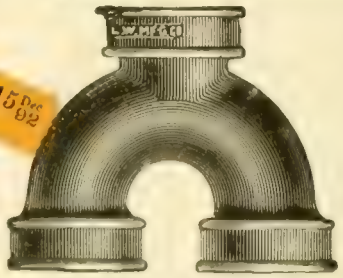


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Vol. VII. **CHICAGO AND NEW YORK, JUNE 30, 1892.** **No. 213**

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DO YOU WANT the government statistics of the Florist, Nursery and Seed trades from the last census where you can have them convenient for reference. You will find them all in our new trade directory and reference book.

Mass. Horticultural Society.

ROSE AND STRAWBERRY EXHIBITION.

The annual Rose and Strawberry show took place on Wednesday and Thursday, June 22-23, having been postponed one week later than scheduled date on account of the backwardness of the season. As far as the quality of the roses shown was concerned it might as well have taken place at the time originally selected, for they were the poorest lot of roses staged here for many a year. The indications were very unpromising beforehand owing to the severe weather in April which seemed to have taken all the vitality out of the plants, and the extremely hot spell which rolled all over this section of the country for several days preceding the show finished up what little life there was in the buds.

Under such adverse conditions it is impossible to produce exhibition roses even with the greatest care and attention. Some of the big exhibitors of other years stayed away rather than show inferior stock, but their sagacity was not so commendable as was the good spirit shown by others who had just as much reputation at stake but who waived their personal interests rather than see the Society humiliated by putting up a rose show with no roses in it.

So the tables in the upper hall were well filled with roses and the scene was a brilliant one notwithstanding the inferiority of many of the individual blooms.

There was one notable exception to the average quality of the exhibits and that was the display made by Mr. Walsh, gardener to J. S. Fay of Wood's Holl. Here were some really very fine roses. Everything that Mr. Walsh sends to the Hall is good and he is entitled to much credit for the appearance of his blooms, although of course he is favored with a climate at Wood's Holl which is nearly English and is just right for the production of fine out door roses. In his lot were four new ones, all of them introduced by Alex. Dickson & Sons of Belfast, Ireland, viz: Marchioness of Dufferin, Margaret Dickson, Jeannie Dickson and T. W. Girdlestone.

The Lyman Prizes for 24 distinct varieties, three of each, were awarded to J. S. Fay, John L. Gardner and W. H. Spooner, respectively. These three, together with Dr. C. G. Weld, A. Galbraith, N. T. Kidder and Mrs. E. M. Gill, comprised the principal exhibitors of roses. Other cut flowers for which regular premiums were offered were herbaceous pæonies, sweet williams and tuberous begonias. There were no begonias shown and the pæonies being almost entirely past, there were no competitors except T. C. Thurlow. In sweet williams there was a very extensive display, the quality throughout being very fine. E. Sheppard & Son, J. H. White and F. S. Davis were awarded first, second and third prizes for thirty spikes.

Rea Bros. staged a fine collection of hardy herbaceous stuff, all named, as also did the Harvard Botanic Garden, the latter in large vases and making a very showy display.

From F. B. Hayes came an extensive display of roses, rhododendrons, pæonies, etc. and A. Galbraith's big vases of foxgloves on the stage added greatly to the appearance of the upper hall.

Jackson Dawson's collection was as usual very interesting. The seedling Andromeda speciosas were the finest ever shown here and Syringa Japonica and Pekinensis were in grand form. A first class certificate was awarded Mr. Dawson for his seedling philadelphus, the blooms of which are very large, purest white and strongly perfumed.

In the plant department the orchid display was quite extensive, well grown plants being shown by J. L. Gardner, Mrs. Durant, Dr. C. G. Weld and E. W. Gilmore. Mr. Gardner's Epidendrum vitellinum majus drew first prize as specimen plant, a good Brassia verrucosa from Mrs. Durant coming in second. Mrs. Durant was first on three orchids and E. W. Gilmore first on six.

The most noticeable plants were Cattleyas gigas and Mendelli, Dendrobium phalænopsis Schroderiana and Odontoglossum vexillarium from J. L. Gardner; Cattleyas Mendelli and Mossiæ, Oncidium pulverulentum and Cypripedium grandiflorum from E. W. Gilmore; a splendid Cypripedium barbatum grandiflorm from Mrs. Durant, and Cypripedium Lawrenceanum from Dr. Weld.

J. L. Gardner's collection of ericas was much admired, and received first prize for hard wooded greenhouse plants. The prizes for specimen plant in bloom brought out a row of towering rhynchospermums ranging from 10 feet in height down.

Owing to cooler weather the roses on the second day of the show were considerably better than those staged on the first day.

Among the visitors present were Mr. Hugh Dickson of Belfast, Ireland, Mr. Jos. A. Dirwanger, Portland Me., Judge Hoitt, Nashua, N. H., and Messrs. Cowles and Gardner from Newport, R. I.

A Grand Spring Exhibition.

A grand show of plants and flowers for the spring of 1893 will be held in the Madison Square Garden, New York, at the end of April and first few days in May, in which a premium list of $6,500 is offered. Among the leading features are $800 offered for palms and decorative plants alone; $1,000 for azaleas; $1,000 for other flowering plants; $650 for tulips and bulbous plants; $450 for or-

chids; for rhododendrons and such like plants $275; for spring bulbs other than tulips $550; for cut flowers $400; and many other miscellaneous items bringing the sum total up to the sum above named.

Already the schedule is in press and will soon be ready to mail to all requiring it. It is hoped that this will bring out the finest spring show ever attempted in this country or in any other. The managers of this affair have been working steadily at this for some months and have now perfected the whole arrangements. A new and entirely novel feature in electric lighting will also be introduced by the Madison Square Company, making the whole thing one of the greatest features that has ever been attempted.

The success of the chrysanthemum show last fall stimulated the members to again secure the services of Mr. Plumb as general manager, which in itself is a guarantee of having everything carried out in a successful and comprehensive manner. The members of the New York Club are awaking to the fact that these monster shows require a great deal of energy and the boys are all taking hold of it with vim, so that we may safely predict a grand treat to any and every horticulturist in the country who will honor them with a visit during our shows, either in the first week in November or our spring show as above named. YAM.

Bedding Geraniums.

The geranium beds at Lincoln Park, Chicago, always present a very brilliant appearance and thinking that a large number of the readers of the FLORIST would be interested in knowing the sorts used and method of growing and caring for them, we obtained the following from Head Gardener Stromback.

In single reds he uses Rev. W. Atkinson, which he considers has the most dazzling color of any geranium. Its habit is good, averaging from 12 to 14 inches in height; it is a good bloomer and the flowers stand well in all sorts of weather. And it is as useful under glass as bedded out.

H. K. Clifton is similar to Atkinson but lighter in color.

Queen of the West he uses in large beds only as it grows too strong for small ones.

He has discarded Gen. Grant as he finds Queen of the West so superior.

Dell is another sort that has been discarded. It is similar to Atkinson in color but is a very strong grower and with him produces more foliage than flowers.

Excellent, scarlet with white eye, was also dropped. The foliage turns yellow in hot weather. It is a good bedder with the exception of this fault.

In semi-double reds, Ernest Lauth is a strong grower and is better for use in large beds than in small ones. It grows to a height of about 20 inches.

Guillaume Mangelli is more dwarf in habit, growing to a height of about 12 to 14 inches, and is a fine bedder.

Pres. Leon Simon has about the same habit as Ernest Lauth but the flowers are of a different shade of color.

Wonderful (semi-double scarlet) is a dwarf variety and a good bloomer. It is excellent except during a wet season. The flowers spoil badly in rainy weather, and after a shower it takes several days to get into condition again.

In pink sorts Emile de Girardin, semi-double, doesn't grow quite so strong as Ernest Lauth but is a fair grower and throws the flowers far above the foliage.

Doctor Jacoby (pink and salmon) is in habit much like the preceding. It is of no value under glass but when bedded out makes a grand show.

Master Christine, single, grows only 12 to 15 inches high and is a good all round bedder.

Gloria de Carbonay is single, silvery pink with salmon eye, and grows to a height of 15 inches.

Madame Thibaut has been discarded on account of the foliage turning yellow in hot weather, and its doing so miserably during a rainy season.

In white varigated leaved geraniums he uses only Mt. of Snow and Mme. Salleroi. The latter he uses for edging only, as in the middle of a bed it damps badly during wet weather.

Earl Roslyn is the only other variegated leaved sort he uses. It is very dwarf averaging about 8 inches in height, and is used in the body of the beds as well as for edging.

With the exception of the variegated leaved sorts, all the geraniums are propagated about the middle of September from bedded plants, the ripest sorts being selected for cuttings. The cuttings are well trimmed, leaving only the two center leaves, and these two are partly cut away when large. Care is taken to remove the bases of all leaves on the stem so as to avoid any places for lodgment of water which would be apt to induce rot. If a flower stalk is showing it is cut away with the knife, but the leaves are pulled off by bending backward as this leaves a smooth stem and nothing to catch and hold water. The cuttings are then placed in 2½ inches of sand on a bench in one of the greenhouses.

If the weather during the latter part of August or the beginning of September has been wet, the wood will be soft at the time of propagation and in this case the cuttings are treated as follows: After being placed in the sand they are given a good heavy watering to settle the sand well around them, and then no more water is given them for a week or ten days except a light sprinkling or syringing over the foliage on bright days to prevent wilting. The house is freely ventilated, and during sunny weather is shaded with lath-shading from 11 in the morning to 3 in the afternoon. After ten days of this treatment the cuttings are ripened sufficiently to stand full exposure to the sun at that season and no further shading is necessary. After the cuttings are callused they are given a good watering whenever dry, but only when indications of being dry are noted.

They are rooted in about three or four weeks, and are then potted in 2½-inch pots in soil having a liberal admixture of sand to insure good drainage, and placed in a house having a temperature of about 60° until the roots have well started. Afterward the temperature is gradually lowered to 50° and then to 45° in middle of winter, and the plants watered very sparingly, the idea being to keep them as nearly at rest as possible, to save room, until repotted and started up in January or February. As they commence to grow the tops are pinched out to induce a bushy growth, and if crowded for room the larger leaves are picked off to admit light between the plants.

About three weeks before time of planting out the hardening off process is begun. A little ventilation is given during the day, gradually increasing the amount until at the end of a week the plants can stand full ventilation night and day.

Mt. of Snow has to be handled differently as it seems impossible to ripen the cuttings by the above described method. Plants are lifted and carried over and cuttings taken from these during winter and early spring.

Allamandas.

The various members of this extremely showy genus of stove plants are best adapted for exhibition purposes or for conservatory decoration and as such should be included among the stock of the retail florist.

For cut flower use they are of little value, as the flowers do not last under such circumstances, but when planted out at the end of a warm house or grown in pot and trained on a balloon trellis, the scandent species form wonderfully effective specimens.

In regard to culture the allamandas are not very exacting, providing they are grown in a house in which a temperature of 60° to 65° is maintained, and all through the season of active growth an abundant supply of water should be given. The soil best suited for these plants is a light loam, to which should be added a liberal amount of dry cow dung, and the plants should be given proper drainage in potting.

During the winter a smaller quantity of water is required, and in fact many growers ripen them off after the manner of a grape vine and then start them into active growth about January or February, previously pruning the plants quite severely.

In the case of pot-grown specimens that are trained on trellises it is well to remember in tying the shoots that the latter should never be trained down hill, that is, the point of the shoot should always be given an upward tendency, as they produce a much better crop of flowers under such conditions.

Propagation is readily effected by means of cuttings of young growth, or by root cuttings, the latter being formed of short sections of the stronger roots treated in much the same manner as root cuttings of bouvardias. The latter is a very easy method by which to secure a stock, though it is quite possible that plants raised from root cuttings may not prove quite as free flowering as those from tops.

In the list of varieties A. Schottii is one of the most noteworthy, being of strong and rapid growth and giving a profusion of its bright yellow flowers nearly all summer, the flowers being of the tubular form common to the genus and are frequently four inches in diameter.

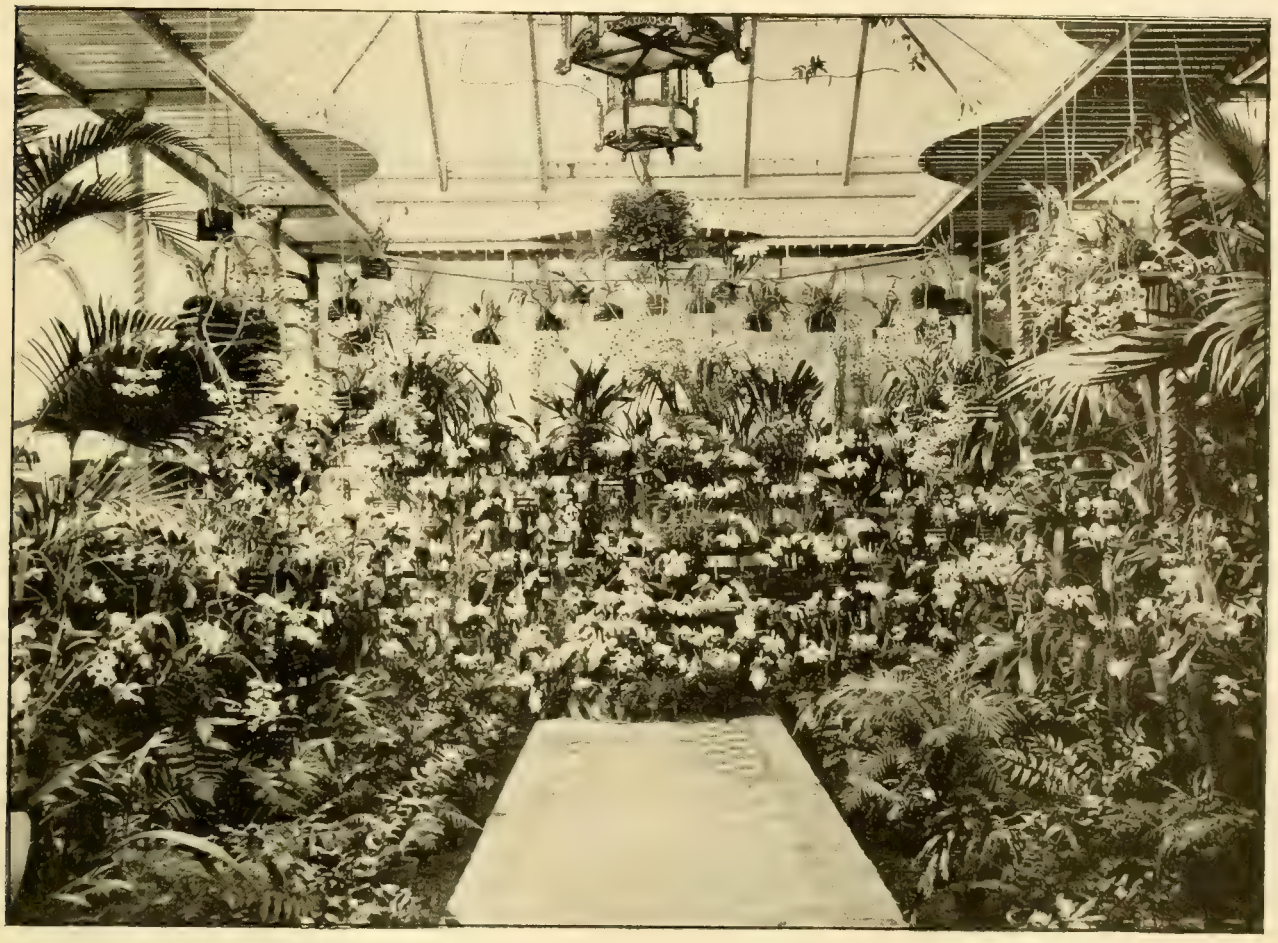
A. Hendersonii bears some resemblance to the preceding, but is shorter in growth, and the flowers, though nearly as large, are more inclined to orange yellow in color.

A. grandiflora also has very large flowers, but is not so strong a grower as those already noted, and in color is pale yellow.

A. cathartica is one of the oldest members of this group and is but seldom seen now. It is also of scandent habit and produces large numbers of bright yellow flowers that are from two to three inches in diameter.

A. neriifolia, as its name indicates, is somewhat like an oleander in growth, being of shrub form and compact habit, the flowers being golden yellow marked with orange, and though comparatively small are so freely produced in clusters that it becomes an admirable plant for establishments of limited size, and thus could be recommended in some cases where the stronger growers would not be advisable.

A. violacea is the rarest species of the



VIEW IN THE CONSERVATORY OF MR. H. H. HUNNEWELL, WELLESLEY, MASS.

genus, though first introduced some 40 years ago, and is also peculiar in being the only allamanda having flowers that are not some shade of yellow, those of the species in question being pale purple. It is a somewhat slender grower and through wrong treatment or some accident was apparently lost in cultivation, for a number of years until re-introduced by a European firm during the last decade.

W. H. TAPLIN.

Notes From Prof. Sargent's.

The name of Professor C. S. Sargent is so intimately associated with trees and forestry that we seldom think of him as being the owner of one of the finest and most extensive private gardens in the country.

He is great on rhododendrons and azaleas and every year in June endeavors to have a large display of these as well as of Indian azaleas in bloom together. Then he invites his friends to come and feast their eyes upon his pets.

His Indian azaleas are now (middle of June) in splendid bloom and arranged under a spacious conservatory-shaped canvas attached to his residence. Having them in bloom so late as this is caused by late growth, setting their flower buds late and wintering them in cool pits. On the veranda beside the azalea tent were specimens of rhynchospermum 7 to 8 feet high. "Plant them out in summer," said the professor, "that's the secret of success." Bambusa aurea 12 feet high in tubs was also placed on the veranda, but because it is continually dropping its old leaves or scale bracts of the young growth, and making a mess, it is not regarded with much favor. Wistarias grown in tubs and trained as standards are used about the house when they are in bloom and are liked very much.

Among the best of the outdoor rhododendrons were Lady Armstrong, Everestianum, Mrs. Milner, Charles Dickens, E. S. Rand, Lady Grey Egerton, Delicatissimum and Alexander Dancer.

Along the side of a walk at the back of his rhododendron border beside the pond is a stone wall supporting a bank of earth, and this wall is completely hidden in a rank growth of poison ivy. "Why do you have that villainous thing there, Professor?" I asked him. "Well it's beautiful in the fall when its leaves begin to turn," he answered. "Yes, it poisons me badly too," he continued. Well, a man can do what he likes with his own. But my advice to you one and all is, erase every vestige of that vile plant from your property. Its presence is too great a price to pay for a streak of nature's glow in our garden.

Syringa villosa, a very beautiful and late blooming lilac from Northern China, was in good bloom or rather past its best. Prof. S. tells me that the longer known Himalayan plant known in gardens as S. Emodi is the same as or at most a form of S. villosa. Botanically this may be so, but horticulturally they are decidedly distinct, and villosa is the better one of the two by far.

Pointing to a handsome specimen of Syringa Japonica he remarked "but that's the beauty." So it is, I admit, and the latest blooming. But where rose bugs are a plague as they now are with us we get no good of Japonica's flowers as the panicles are alive with the vermin. These insects are more partial to the flowers of this section of lilacs, namely, Amurensis (which is past) and Pekinensis and Japonica (both of which are now in bloom) than any other parts of any other plants with us.

The Professor is down upon retinosporas, they are not reliably hardy. Well, they may be sour grapes at Boston, but at Glen Cove I can assure you we think they are pretty nice evergreens.

And he is severe upon Japanese maples, that is the polymorphum and Japonicum sections, because they die out so. He used to have lots of them but they have dwindled down to two handsome specimens of crimson leaved varieties. These maples are, as far north as New York, I know, considerably affected by the Japanese die back (we call it this because we know of no better name). A branch will die off this year, another next year, and so on unaccountably, and in summer as much as in winter. Dryness at the root particularly induces this evil. With good ground, abundant moisture summer and winter, protection from hot sunshine and bleak winds, one can grow these maples well enough. If they are short lived, by growing them low branched and elbowing the branches into the ground we can keep on renewing and invigorating them, for they root quite readily from layers.

He has a very fine specimen of Acer cissifolium, a species seldom heard of. It makes a dense, broad headed tree 10 or

11 feet high, is in perfect health and apparently perfectly happy with its lot at Brookline and is seeding freely.

The only unique tree I have got is that dwarf Picea pungens there, he said pointing to a dense little plant 2 or 3 feet high. It was one of the young plants raised from that lot of Colorado seed nearly 30 years ago, from which all the "first" fine blue specimens were raised.

He is getting solicitous about the value of the blue spruce (Picea pungens) as a permanent garden plant, the indications are that it will lose its lower branches *a la* Balsam fir. But, well treated, it won't do that under 30 years old, so I don't see the use of worrying much about it.

Syringa Alberti looked fine as a plant and so it did too at the Arboretum, but when I ventured to suggest that it didn't appear as if it had many blooms on it this year I found I was treading on somebody's corns, for this little shrub is highly prized around Boston. Its rose lilac flowers are real pretty and delightfully fragrant, but say what you will, it doesn't blossom very full every year.

WM. FALCONER.

Astilbe Japonica Compacta Multiflora

This comparatively rare astilbe is a green leaved form of the Astilbe Japonica variegata and possesses the dense habit and large flowers which characterize that scarce and fine variety. The foliage is larger and much darker than in the common A. Japonica and the flowers are also much larger and more compact. It is a grand plant for decorative purposes and also for cutting.

Mr. J. Wm. Colflesh, of West Philadelphia, considers this sort quite an acquisition to our list of spring stuff and intends to plant it more largely the coming season. Evenden Bros., of Williamsport, Pa., also grew this astilbe last season and were greatly pleased with it. They state that they will grow it again next winter. Several other growers in this vicinity have tried it on a small scale and all I have heard from speak favorably of it and express their intention of growing more next time. This astilbe is undoubtedly a good thing and should be "put on your list" for next season's operations.

By the way, does any one grow the Astilbe Thunbergii for forcing purposes? It is largely used in this way in Europe, but I have not heard of any one who has tried it here.

G. C. WATSON.

Philadelphia, June 11, '92.

Treatment of Cycas Revoluta Stems.

Replying to the query of Messrs. Gravett & Son, dry stems of Cycas revoluta should be potted at once into as small pots as the size of stem will permit, for instance, a stem seven or eight inches in diameter can usually be put into a 10-inch pot.

They should be firmly potted in good loam, soil of a light character being best for the first potting, and the plants should then be placed in a warm house, where they frequently start into growth in six weeks or two months, though in some cases a much longer time may be necessary.

The young growth should be protected from the sun and should not be handled, as a slight touch may disfigure the fronds.

W.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

New York.

Summer drowsiness seems to have settled down over the flower trade in this city. The retail florists do not make much of any attempt at window displays and keep whatever flowers they have locked up in the refrigerator until a stray customer appears. The wholesale trade is naturally in the same condition. At the big commission dealers' and at the market the quantity of flowers being brought in has fallen off greatly during the past week.

Roses are rapidly diminishing in number and as to quality they could not be much worse than they are. A moderate supply of really fine roses could be sold now for fair prices. This at least is one indication of improvement in the market over the condition recently, when even good roses could not be disposed of at any price.

Out among the growers the principal interest now is in preparations for the next year's campaign. Old roses are being thrown out, young ones prepared, new houses and repairs on old ones, are engaging the attention of many, and the chrysanthemums which are destined within a few months to have their day are beginning to monopolize attention. Inside a greenhouse is neither comfortable nor safe during the heat of the day just now, and he who looks for the proprietor under the hot glass roofs looks in vain. But after the long winter's pull no one will begrudge to the grower a few weeks easy life.

With the big sale of Philadelphia plants at Young's on June 23 closed the auction sales for the season. It was a most auspicious closing. The prices obtained were remarkably good, the attendance large and the interest shown in the sale far beyond what was expected. The quality of the plants had a good deal to do with this. A finer lot of palms, ficuses and other plants which Mr. Harris and Mr. Craig grow so well, has never been offered here. Forsterman had some stuff in the same sale and is in high glee over the success. Mr. Gibson, of Newport, was one of the largest buyers.

The committee having in charge the arrangements for transportation to Washington next August report satisfactory progress and will soon have their plans complete.

James Dean will have the grandest display of French cannas ever seen here in bloom this season. One bed measures 180 feet by 350 feet and another about 100 feet by 250 feet, and these are both planted solid with Crozy, Star and other choicest kinds. It will be a big show when in full bloom.

Mr. Hugh Dickson sails for Ireland on July 2.

Mr. S. J. Thompson, of Louisville, Ky., is in town.

Boston.

There is no noticeable change in the flower market this week. The school graduations and similar festivities suffice to keep the florists fairly busy, but it is small work and not much profit in it. Class day at Harvard College as usual made quite a little demand for nice flowers and considerable plant decorating was done by local florists. Another week will about finish the season, customers will flit out of town and summer pastimes such as bowling and Washington trip will be the only subject to interest the boys. The bowling club here will send out a strong team this year and their competitors will do well to look sharp, for they mean business.

Just now the roses coming to the city are very poor and good ones can be sold for full prices. White roses especially rule high when of good quality, even as much as $12 per 100 being paid for choice lots.

Jackson Dawson has a fine hardy white rose, a seedling from Boston Belle, probably resulting from a cross between Boston Belle and the old white Cottage rose. One of the showiest shrubs in bloom at the Arboretum at present is Hydrangea vestita from the mountains of Pekin. It is a grand mass of white bloom.

At the Bussey Institute they have a fine strain of Gaillardia grandiflora, blossoms frequently measuring 4½ inches across.

Geo. Sutherland, of Peck & Sutherland, is to be married on June 28. This finishes up all the wholesale dealers in Boston, not a bachelor left in the whole lot. George has been practicing with a tall hat after dark. He has not got courage enough yet to appear in it by daylight.

Charlie Evans and Wm. Edgar sailed for the old country on Saturday, June 25.

Washington.

The regular monthly meeting of the Florist's Club was held Wednesday, the 15th. Report of the schedule was adopted. Chrysanthemum show will be held Nov. 15, 16 and 17th in Washington Light Infantry Hall.

Weather continues hot and dry though we had a light shower Thursday evening. The grass in the parks and the shrubbery about town begin to show the great need of rain.

The cut flower trade in the markets continues good, the quality of the flowers poor, owing to the heat and want of rain. Good La France, Brides and Perles are bringing from 25 cents to 50 cents per dozen in the markets, from 50 cents to 75 cents in the stores. The sale of bedding plants is virtually over. The demand for palms (phœnix and latanias), pandanus and rubbers is still good. Quite a number are disposed of by the market florists each market day (Tuesdays, Thursdays and Saturdays).

There is little doing in the cut flower trade in the stores, weddings and funerals being about the only calls they have. White and pink sweet peas and pond lilies are in great demand for funeral work at present.

Mithras Lodge of Perfection No. 1, Ancient and Accepted Scottish Rite, held a Lodge of sorrow Tuesday evening, June 21, in the Cathedral room of the Rite. The chairs and lights in the east, west and south were very tastefully banked with palms, through which and towering above them, were large spikes of yucca with their beautiful white bell shaped flowers, presenting a most striking effect. Along the railing of the balcony was arranged a line of palms, and suspended from the balcony was a number of baskets of growing plants, the bottoms of which were covered with cut roses, thus serving a double purpose, for while those on the balcony could see the baskets of plants those in the cathedral below could see the cut flowers. The whole presented a very pleasing effect and did credit to Messrs. Small & Sons, the decorators. Though it was not a large affair it was elegant.

Clark Bros., on the Bladensburg Road, are erecting a fine house 33x160 feet, in which they propose to grow nothing but Asparagus plumosus nanus. They are enthusiasts in this line; I think they have the largest stock in the country and it is in excellent condition.

C. LESLIE REYNOLDS.



LOTUS POND. TOKIO, JAPAN.

Chicago.

Business was very good last week on account of the school exercises, but now we face the dullest season of the year, which usually lasts about three months. Stock in general is very poor, and outside of a few Beauties it is hard to get a rose that is worthy of the name. All other stock is also poor with the exception of a few good batches of valley.

The Club committee on transportation to Washington has secured a special low rate over the best route from Chicago to the Capital, and if there is not a big turnout it won't be because the rate was not cheap enough or the route undesirable.

The Bowling Team will play a series of practise games next Friday evening (July 1) at the Superior Alleys, corner of North Clark and Superior Sts., and Capt. Hauswirth hopes to see all the bowlers present.

We are still enjoying from three to ten heavy rains per week and about two thirds of the time it is so chilly that an overcoat is desirable. The downpour of rain has played hob at Lincoln Park, especially with the herbaceous garden which lays a trifle low and which has been partially transformed into a lake. And the water stood so long among the plants that many will die and others are seriously injured.

The water poured down in torrents last Thursday evening and as a result there was not a quorum at the Florist's Club meeting and no business was transacted, but the faithful who defied the elements had a most enjoyable session afterward at the bowling alley.

W. J. Smyth has been appointed Chicago representative of the Florist's International Telegraph Delivery Association.

At Niles Center Jacob Meyer is building two new rose houses each 20x90.

Among recent visitors to the city were Elmer D. Smith, Adrian, Mich.; Jos. E. Bonsall, Salem, O.; E. V. Hallock, Queens, N. Y.; H. A. Siebrecht, New York; Avery Gallup, Denver, Colo.; J. T. Temple, Davenport, Ia.; D. B. Long, Buffalo; J. M. Gasser, Cleveland; J. Cole, Peoria, Ill; Geo. H. Bancroft, Cedar Falls, Ia.; Emil Kranz, Muscatine, Ia.; E. E. Kennicott, Wheeling, Ill., J. J. Schumacher, Sioux Falls, S. D.; James Schols, Grand Rapids, Mich.; L. Eckhart, Nashville, Tenn.

Philadelphia.

The past week has been very warm, beating the record for some years past for the same period in June.

In the fashionable quarter of the city the houses are all closed up, the windows and doors in most cases being boarded over, giving this portion of the city a deserted appearance. A few stragglers may be seen hurrying along, and who, if they happen to meet an acquaintance, have an apology to make for their being in town at this unseemly time.

There is still some demand for flowers, a few belated weddings having taken place, and some florists having quite a lot of funeral work.

Four dollars is the outside price for the best roses except a few hybrids which bring $1.50 a dozen. Small teas sell for 2 and 3. Sweet peas are very abundant and are offered as low as 25 cents a 100; carnations bring $1. Pink pond lilies from New England states are seen in the store windows; they are very pretty and sell fairly well. There are quite a few orchids about. C. F. Evans & Bro. have a nice lot of cattleyas in, but the sale is very limited at this season.

Robert Craig's cyclamens are looking very fine. He has many of them in 6-inch pots, fine bushy plants; they are from three to four months farther advanced than at this time last year. The seed was sown in September last and he expects to have a lot of them in 8-inch pots by the time they are one year old.

The houseful of crotons for bedding out was a great success; all were sold and another lot is coming on for decorative plants for fall. He has a little heat on these and some palm houses. K.

Baltimore.

One can not say hot, hotter, hottest, of the weather, for it has been the last all the week and though occasional showers have lessened the heat from time to time, the additional humidity made it harder to bear.

Steady trade is no more. What answers for trade is a great desert of dullness with here and there an oasis of funeral or wedding work. The growers have apparently found out that the time to replant is at hand, for, notwithstanding

the very limited demand, the supply is hardly up to it, and when any sudden order surprises a dealer, he is lucky if he can get all he needs in town. The exchange had not a bud left Saturday afternoon and nothing else but a few lilies and pink hollyhocks. Good buds are very scarce.

Though the bowlers have not been able to surpass all competition in bowling, yet the jolly crowd that assembled at the farewell supper given to the captain of the team, Mr. Hy. Bauer, on the eve of his departure for a trip to Europe, think that when it comes to suppers they are hard to beat.

From the beautiful iris on the front page of the souvenir, to the Havanas that appeared last on the bill of fare, it was simply gorgeous; Mine Host Brawner spread himself. The toast master, Mr. Sands, carried off the honors with his usual good graces, his toast to Henry being pronounced a regular "Chauncey Depew," and altogether the boys all say it was the finest supper they ever sat down to. Mr. Bauer sailed on the 22nd. MACK.

St. Louis.

Trade has been unusually good. Everything sold. To the question "Have you anything to sell?" asked of the commission men, one answered "A few sweet peas" and the other, "Nothing but my ice box."

The High school and Normal school graduations called for large quantities of flowers.

An important event was the wedding of Lieutenant Powhatton Clark, of the U. S. Cavalry, and Miss Elsie C. Clemens of this city. The ceremonies were performed at the St. Xavier's church, being conducted in military style. The floral decorations, furnished by Miss Teresa Badaracco, were considered very fine. The church was decorated with palms, hydrangeas, and other plants, the sacred heart altar being massed with red. All the cut flower work being in blue and yellow in accordance with the cavalry and regimental colors. The bride carried a large shower bouquet of stephanotis, Farleyense ferns, and white orchids, the orchids forming the shower effect. Eight brides-maids carried each a large shower bouquet of blue cornflowers, tied with yellow ribbon intermingled with cornflowers. The ushers wore boutonnieres of M. Niel roses and cornflowers. The house was decorated with palms, and other plants, and blue cornflowers, delphiniums and yellow ribbon. Mrs. Boyce gave the Lieutenant and his bride a reception Wednesday at Hotel Beers. The floral decorations were elaborate, two large rooms being decorated with palms, smilax and other plants, with the flowers all in yellow. Mr. Weber did the work in his usual artistic way.

The firm of W. A. Hanft & Co. has been changed to "The Halstead floral Co.," consisting of W. A. Hanft and A. S. Halstead, with Mr. Hanft as manager.

Mr. Tesson is planting his new rose house, which is 16½x300 feet.

Mr. Armsby, gardener to Mr. Kauffman, has two very fine specimens of Aerides Fieldingi now in bloom.

The number of visitors at the Mo. Botanical Gardens should have read 16,000 instead of 1,600.

P. A. Sexton has been admitted to the firm of R. Hausberger & Sons, and the style has been changed to R. Hausberger, Sons & Co. A new rose house 22x104 is about completed. J. C. D.

Worcester, Mass.

The stagnancy of summer trade has just began to touch us in this section and the boys are singing a variation of that old ditty we all learned at school:

The winter has gone and summer has come,
And what will the florist do then?
Poor thing!
But one clerk in his store and crape on his door
He'll wait till next winter to sing.
Poor thing.

Outdoor hybrids are coming in thick and fast and of very good quality, the very best bring about $2 a dozen. Pinks are also very plentiful and are selling as low as 25 cents per dozen.

The gardeners have nearly finished their spring bedding and are heaving big sighs of relief and giving their own stuff a little attention.

Lange put in a very handsome palm and table decoration for the Continentals Bunker Hill day. The end of the hall was banked with Otaksa hydrangeas and arecas, a large handsome specimen of Phœnix rupicola towering above, and two monster latanias on the ends. The banquet tables were fixed prettily with bowls of cut hybrids, and Asparagus plumosus, pots of Cocos Weddelliana, etc. were placed here and there, making a very fine effect. Covers were laid for 600.

At the first June meeting of the Horticultural Society, June 16, the exhibit was most excellent. Mrs. C. E. Brooks made a good display of cut flowers of hardy plants and shrubs and carried off first premium. A. A. Hixon and O. B. Hadwen both showed an excellent lot of cut pæonies. The hydrangeas also made a splendid showing, being strong and thrifty and well covered with bloom. A. H. Jones, H. B. Watts and A. A. Hixon were awarded firsts. O. B. Hadwen made a fine exhibit of rhododendrons and Ghent azaleas; and the iris, begonias and fuchsias all made a very attractive exhibition.

A monster trade procession has been arranged for the Fourth of July and the florists will probably have an allegorical car, though just what has not been decided yet.

Sargent is putting up two new houses and most of the boys say they must have more room. SEEDLING.

Buffalo.

"Graduating week" caused considerable activity in the trade. But with the exception of carnations, flowers were scarce; roses very poor and not enough to be had. Pink pond lilies sell well.

Webb & Bros. of Corfu, N. Y. have about completed two new houses, each 150x22. They will be filled with roses.

Our city was recently over-run by 6,000 members of the Order of Elks and there were a number of florists among them, including Messrs. Albert M. Herr, Lancaster, Pa., and S. Kehrmann Jr., St. Louis.

There promises to be a good sized delegation to the Washington Convention from this city. The bowling contingent are specially active and are anxious to redeem themselves by good work at the Capital. G. S.

If you have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

News Notes.

ORANGE, N. J.—T. H. Spaulding is building a new house 21x75 for roses.

JOHNSTOWN PA.—Mr. Adolf Stahl sailed June 16 for a three-months European trip.

ROCKFORD, ILL.—Mr. H. W. Buckbee recently gave an exhibition of orchids at his store that drew forth a long complimentary notice from a local paper.

MUSCATINE, IA.—Spring trade has been excellent in spite of the wet weather. Among the most popular plants is Canna Mme. Crozy. Plants in 6 and 7-inch pots have sold quickly at $1.50 each.

LAKE GENEVA, WIS.—Frank Leslie at S. W. Allerton's is pushing his chrysanthemums and intends capturing all the prizes at Chicago this fall. He is well loaded with all the new varieties.

DENVER, COLO.—D. S. Grimes is adding a new house 18x80 to be devoted to the growing of Rocky Mountain wild flowers, many of which are not only rare but of such beauty as to be worthy of general cultivation.

NASHVILLE, TENN.—Eckhardt & Co. are adding a new house 15x54 for roses. Spring trade has not been as good as it might have been. This section has had none too much rain this spring. In fact it has been rather dry.

JUNCTION CITY, KANS.—Wm. Horlacher has purchased Wm. Ransom & Son's greenhouses and will combine the establishment with his own. This will give him 5000 feet of glass. Walter Ransom has been employed by Mr. Horlacher.

DALLAS, TEXAS—Messrs. L. S. Ewing, formerly Sup't of Dallas Nurseries, and H. C. Quillen, Prop. of Dallas Floral Co., have purchased the entire business of Dallas Nurseries from Mr. J. M. Howell and have combined under the firm name of Dallas Nursery and Floral Co., retaining Mr. Howell as manager.

PHŒNIXVILLE, PA.—Spring trade has been very brisk—better than expected in view of the dull times. Sales of bedding plants about equal to those of former years. But prices are very low on account of the senseless competition from out-of-town growers who have cut prices to such an extent that there is nothing in the business here.

PUEBLO, COLO.—A heavy hail storm did much damage here June 16. Some 700 lights of glass were broken in the greenhouses of Harry Baker, and great injury was done to plants outside. Mr. Baker estimates his loss at about $3,000. Even the plants in the houses were completely stripped. Mr. Baker takes his loss philosophically and says that Providence has provided a quick and easy way of disposing of surplus stock.

NEW ORLEANS.—The Louisiana State Horticultural Society was organized at a meeting held in this city June 21. The Society starts with an initial membership of 70 and with the following officers: President, A. K. Clingman of Homer; Vice-presidents: E. M. Hudson of New Orleans, O. B. Jenkins of Jennings, T. J. Lacey of Washington, G. W. Stoner of Jewella, C. R. Panter of New Orleans; Secretary, S. M. Wiggins of New Orleans; Treasurer, W. C. Stubbs of New Orleans. The hall was handsomely decorated with plants and flowers contributed by Mr. R. Maitre, the florist and seedsman.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

H. AUGUSTINE, Normal, Ill., president; Z K. JEWETT, Sparta, Wis., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A WHITNEY, Franklin Grove, Ill., treasurer. The Eighteenth annual meeting at Chicago, June, 1893.

Notes from the Arnold Arboretum.

II.

ACER GRANDIDENTATUM. — "Probably hardy but very slow growing."—J. D.

GLEDITSCHIA MONOSPERMA.—"Only a shrub here."—J. D.

RHAMNUS ALPINUS has fine foliage.

GENISTA DAURICA, hardy, slender stemmed, fine, past blooming.

RHUS AROMATICA var. trilobata, distinct and desirable. Pistillate plants fruiting.

QUERCUS GEORGIANA.—The most desirable of all dwarf oaks for color in fall. Quite rare.

SWEET FERN SHRUB.—Myrica asplenifolia. Not comptonia now.

PINUS PONDEROSA doesn't thrive well here, but they have nice young plants of the weeping variety, grafts from Peekskill-on-the-Hudson.

PINUS DENSIFLORA, parviflora, Bungeana, excelsa, inops, rigida, Banksiana, Jeffreyi, Scotch, Austrian, white, etc., are all planted on high ground, and monticola, Lambertiana, edulis, aristata, Murryana and some others in sheltered places.

HOLLIES NOT FRUITING.—All kinds of hollies are planted in pairs to insure a crop of fruit.

WISTARIA FRUTESCENS VAR. MAGNIFICA was larger in all its parts than the typical form.

WISTARIA MULTIJUGA is the very long racemed species from Japan which we so often see in pictures but so seldom in our gardens. Both the blue and white flowered forms were in bloom in the Arboretum, indeed, the white was one of the most attractive plants I have seen for many a day. It was a big plant and strong, and trained up a pillar around which its 2 feet long racemes hung straight down like a heavy fringe. The Japanese, in order to display the racemes to their best advantage train out the vines arbor-top fashion to long horizontal bars, the vines and foliage keep close to the bars, and the flowers hang straight down and are seen to fine advantage.

ROBINIA BESSONIANA.—This was in full bloom and one of the prettiest little trees on the place, it was only about 5 or 6 feet high. The branches were spreading at top, and hung full of racemes of pale rose colored pea flowers like those of an extra fine clammy locust (R. viscosa). It is thornless, and said to be a garden form of the yellow locust (R. Pseudacacia).

STEPHANANDRA FLEXUOSA is a Japanese shrub nearly allied to the spiræas, and of which a good deal has been made lately. It was in full bloom. The shrub is about 4 feet high with wiry arching or spreading stems and branches, pinnate leaves, and small white flowers in small, airy, corymbose panicles. Quite a pretty shrub in its way but not striking. Not showy enough for small gardens.

SYMPLOCOS PANICULATUS NOT FRUITING.—Passing along with Mr. Dawson and Professor B. M. Watson, I mentioned to them that our plants of this forgot all about their fruiting lesson; they gave us lots of blossoms but no berries. "That's because they are lonely", they replied, "get another plant or two and set them out alongside of those you have, and the fruiting business will be all right. Proper pollenation is what they need to form berries." The plants of it in the Arboretum were, they assured me, in September, every year, completely covered with ultramarine blue berries.

NUTTALLIA CERASIFORMIS is a Californian shrub very seldom seen in cultivation hereabout. But at the Arboretum I found quite a large specimen of it in fine health. Its flowers are greenish white, quite fragrant and appear very early in spring, in fact, in the time of crocuses, snowdrops and mezereon. It also starts into leaf very early, and not infrequently gets nipped with late frosts. Because of its grateful early flowers it is well worth growing.

ARALIA SPINOSA, true.—"Now that's the genuine Hercules' club of the south," said Mr. Dawson, "we sent down into the wilds of Tennessee to get it true, for the most of the aralias sold as spinosa are nothing other than the Asiatic Chinensis."

GORDONIA ALTAMAHA (pubescens).—I was surprised to see a fine bushy plant of this, the Franklinia of the south, in fine condition in a shrubbery bed in the Arboretum; it was bigger and stronger than anything we have at Glen Cove. It blooms beautifully every season in the late summer and early fall. Its relative, G. Lasianthus, or as it is known in the south, Loblolly bay, isn't hardy at all at Boston.

CALLICARPA PURPUREA.—Mr. Dawson tells me it isn't very satisfactory as an outdoor shrub about Boston, the season isn't quite long enough for it. Friend Temple in Iowa, however, gets over this by growing it as a pot plant, and when it is in full fruit at chrysanthemum time selling the plants for $5 apiece.

PHOTINIA VILLOSA.—This is a very beautiful and neat Japanese shrub now in good bloom. The flowers are white and borne in corymbs like the white hawthorn; the leaves are 1½ to 2 inches long, thick and prominently veined, and the plant, especially the young growth, is covered with a dense pubescence. There is also a smoother variety. Both, particularly the smooth one, bear ornamental scarlet fruit in fall; the leaves also assume a scarlet hue. This shrub is worth our nurserymen's attention for it is a good thing and there's a bright future ahead of it.

HAZELNUT TREE DISEASE.—Mr. Dawson called my attention to the way in which their hazel plants were dying off, sometimes in branches and sometimes the whole plant. It appears like a lot of excrescence blisters all over the bark. Within the past two years this same disease has played sad havoc in our plantation at Glen Cove, and last year and this our bushes have been killed back pretty hard with it. But I believe if we would let more young wood grow up from the root every year than we do and reduce the old wood our plants would be healthier. This is contrary to stereotyped advice, however.

BALSAM FIR GOT WINTER KILLED.—Prominent among the handsome spruces and silver firs I noticed a group of much browned or dying plants. "What's the matter there, Mr. D.?" I inquired. "Now that's something curious," he replied. "They are balsam firs, the hardiest of all our conifers, and see they have suffered the most. What injured them I can not say, but probably the dryness of the ground was the primary cause."

FRASER'S BALSAM FIR (Abies Fraseri), indigenous to the high mountains of Tennessee and Carolina makes a far prettier tree than the northern balsam, and seems to be hardy enough here.

THE WESTERN LARCH (Larix Occidentalis) doing well.—We have tried and rejected the western larch because it refused, under any cultural conditions, to thrive with us. But here at the Arboretum on sloping ground it is growing beautifully and looks happier than the eastern hackmatack. How is this, Mr. D.? I asked. "They are all grafted on the Japanese larch, L. leptolepis. They won't grow with us on their own roots any more than they will with you, but grafted on the Japanese or European stocks they thrive first rate and make beautiful trees. I used the Japanese larches as stocks just because I had them ready at the time."

POLLARDING OAKS and other trees.—As one may find in any piece of old woodland, especially near a city, the big trees had many dead and broken branches. The dead and broken branches have been cut out altogether, and even the living branches have been shortened to within a few feet of the trunk. As soon as the branches were cut off the wounds were painted with tar. This was some years ago. The result has been wonderful. The stumps have put forth fresh branches with leaves as big and fat as those of saplings, and these branches are waxing in size and strength year after year, so that now the pollarded hard wood trees of a few years ago are clean well branched healthy specimens. Professor Sargent is proud of them.

RHODODENDRONS AT BOSTON.—It was most 9 p. m., closing time, when Jackson Dawson and myself got in to Boston to see the rhododendron show, and found that most all the boys had gone home, for the Boston boys are model boys. But we found James Comley there. He had a fine lot of flowers. "Now, Mr. Comley," I said, "please tell us how you get such big flowers and big heads and fine foliage." "Well," he answered, "I feed the plants well. We give them lots of old rotted cow manure and leaf mold. It's all a mistake to think that rhododendrons don't like something good to eat; that's how I treat them, and there are the flowers to speak for themselves. Then don't let the plants flower themselves to death. Pinch off half the flower heads as soon as they set, it will pay you in the large size of the blooms left and the health of the plants. In some cases I run two sets of plants, letting one set bloom this year and the other next year, and so on, and it pays. Take the variety Everestianum for instance, perhaps the best all round hardy rhododendron in existence, and see how sickly the plants often appear; well, this is caused by nothing other than overflowering. Try it every alternate year and disbud half its crop the bearing year and you'll get something nice I can tell you."

WM. FALCONER.

Fruit Sulphuring.

At the June meeting of the California State Hort. Society at San Francisco Leonard Coates, of Napa, read a paper on "Sulphuring fruit: Is it likely to benefit or injure California's reputation?" Mr. Coates declared himself perfectly impartial as to the merits of the question one way or another, but his conclusions, drawn not only from the scientific but the severely practical phases, led him to the unequivocal judgment that sulphur-

ing fruit in the drying processes is all wrong, and will prove as damaging to the industry as doctoring with deleterious spirits and coloring stuffs has proved to the foreign wine trade. Tests prove that the pure and natural qualities of the fruits have been injured in the sulphuring process, that the rich flavor of the fruit has been destroyed, and that while the white healthy color has been preserved the taste has been nearly destroyed. The point was made that producers of dried fruit for the market are catering to the dollars and cents side of the question, while sacrificing California's credit and fame as the producer of pure and healthful fruits.

KANSAS CITY.—The Western Wholesale Nurserymen's Association held a meeting here June 21 but the attendance was not large. President H. T. Kelsey of St. Joseph, presided, and Mr. U. B. Pearsall of Fort Scott acted as Secretary. From a careful comparison of notes, the members present drew very discouraging conclusions regarding the Missouri fruit crop. The crop is very light and is a total failure in several kinds of fruit. The grape crop is the most encouraging of all and promises a pretty fair yield. Apples will not give more than one third of a crop and of inferior quality. The only peaches in the state are at Olden and the peach crop may be set down as a practical failure. Cherries and plums are a total failure. The investigations of the situation in Kansas were not as thorough, but it is not thought the crops are in quite as bad condition as in Missouri, although it will not be a typical Kansas yield. The poor prospects were attributed to the late frosts and excessive wet weather.

LOS ANGELES, CAL.—A meeting of the horticultural commissioners of the six southern counties was held here June 2. The chief point of discussion was the adoption of uniform regulations in relation to the inspection of nursery stock. The commissioners expressed themselves as ready and willing to accede to the desires of the nurserymen as far as possible in regard to agreeing upon a specified formula for an emulsion for dipping trees, which dip should be used uniformly in the six southern counties, and where gassing was preferred the strength of the chemicals to be employed and duration of treatment.

COLUMBUS, O.—The Ohio Horticultural Commissioners for the World's Fair exhibit met here recently and consulted with wine growers from Sandusky and other points in Ohio. The Commission consists of Hon. N. H. Albaugh of Miama county, Chairman; Prof. W. R. Lazenby of the O. S. U. and Mr. N. Ohmer of Dayton. They have the expenditure of $8,000 for the Ohio Horticultural exhibit, the second largest amount appropriated by any State in the Union. They will endeavor to make the wine display from Ohio exceed that from California at the World's Fair.

ROCHESTER, N. Y.—Articles of incorporation of the Allen Nursery Co. have been filed. The capital stock is stated as $10,000, divided into 400 shares of $25 each. The place of business will be in this city. The incorporation is for 30 years. The names of the directors and the number of shares subscribed for by each are here given: William S. Linton, Saginaw, Mich., 70 shares; B. Frank Allen, Rochester, 85 shares; Charles H. Hawks, Rochester, 25 shares; Jessie M. Allen, Rochester, 5 shares; Arthur A. Mosher, Jackson, Mich., 30 shares.

BOISE CITY, IDAHO.—Articles of incorporation of the Arid Nursery Co. have been filed. The object of the company is to establish and maintain one or more nurseries in Ada county. The principal place of business is Boise City and the capital stock $50,000, all of which is subscribed. The incorporators are Joseph Pinkham, W. H. Pettit, Charles E. Snyder, Fremont Wood and Ada Bush.

IN CONSEQUENCE of the appearance of the phylloxera in California, the Minister of Agriculture of France has decided, in accordance with the terms of the Conference of Berne, May 15, 1882, that under no circumstances whatever shall vine cuttings or plants from North America be permitted to enter France.

WALLA WALLA, WASH. — The State Board of Horticulture met here June 1 and 2 and matured plans for collecting a complete exhibit of this years' fruit for the display at the World's Fair.

DO YOU WANT an alphabetical list of carnations in commerce in America with date of introduction and a brief, accurate description of each one, with synonyms noted? You will find such a list in our new trade directory and reference book.

SITUATIONS. WANTS. FOR SALE

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By an experienced florist and rose grower. Address
O B 100, care American Florist, Chicago.

SITUATION WANTED—By a German, good grower of roses, carnations, violets, etc. Long practice and good reference. Address
C S, Box 1167, Meriden, Conn.

SITUATION WANTED—By young man, 6 years' experience in growing roses, carnations, chrysanthemums and bedding plants; temperate and of good character. Address with particulars
Box 269, Decatur, Ind.

SITUATION WANTED By a first-class florist; German; single; 29 years of age; experienced in growing roses, carnations and cut flowers. Best of references. Address C W,
P O Box 219, Minneapolis, Minn.

SITUATION WANTED—To take charge of department, or as general foreman; good all round plantsman; well up in the raising of ferns, stove plants, cut flowers, etc. Best of references. Address
H. WESTON, 17 Ward Ave., Newport, R. I.

SITUATION WANTED By a young man, age 26; great experience with orchids and all kinds of exotic plants Single. Either private or commercial. Good references. Address ORCHID GROWER,
Oasis Nursery Co., Westbury Station, L. I.

WANTED—Boiler (cast) to heat 4 000 feet of glass. Address CHAS. POMMERT, Greenfield, O.

WANTED Partner; single man to take half interest in greenhouses. All new. 5,000 ft of glass. Address J SIMPSON, care American Florist.

WANTED—Man; must understand inside and outside work; industrious, and has to be a good worker—no other need to apply; steady place.
G. HEINRICH, Crete, Ill.

WANTED A reliable, sober and pushing man (single preferred), who knows all about raising cut flowers, roses, carnations and violets. Address
PITT, care American Florist, Chicago.

WANTED—On a commercial place, single man as assistant—German-American preferred. Address, giving age, recommendations and wages required, C. HORNUNG, Edgely, Bucks Co., Pa.

WANTED—At once, a good man to take charge of cut flower store, one who understands growing roses and carnations preferred; must have good references. Address with wages desired,
P. O. Box 783, Columbus, Ohio.

WANTED A foreman well acquainted with propagation and growing of bedding plants. Must be well recommended. Good salary and steady work. Address A. E. WOELLERT,
Gardener to P. R. R. Co., Altoona Pa.

WANTED A man to take charge of a commercial plant of 14 greenhouses, to grow mostly cut roses and small rose plants. Prefer married man. Must have good references others need not apply. Address LAROCHE & STAHL, 1235 Chestnut St.,
Philadelphia, Pa.

WANTED—Roses, chrysanthemums, carnations bouvardias, pileas, ferns, alyssum, heliotropes, rose geraniums, smilax, etc. Send samples by mail; will buy only clean, strong stock. Address
WM. SMITH, 216 9th St., Sioux City, Iowa.

WANTED—A strictly sober, competent and reliable man; a good rose and general cut flower and plant grower; one competent to manage a set of commercial greenhouses. Apply with references to
CRABB & HUNTER, Grand Rapids, Mich.

WANTED—By July 15th, experienced rose grower to take charge of five rose houses; married man; must be sober, well recommended and understand his business. Address
F. BURKI, Bellevue, Allegheny Co., Pa.

WANTED—Thoroughly efficient man as foreman in greenhouses; over 10,000 feet of glass; only place in large western city; demand exceeds supply; extension needed. Man with small capital can invest, taking an interest. Address at once
Box 40, care American Florist, Chicago.

FOR SALE—Greenhouses and stock. For particulars, address
W. S. SAWYER & Co., Lincoln, Neb.

FOR SALE—Only greenhouse establishment in growing western city of 15,000 inhabitants; 3,000 feet of glass; large stock. Address
THORP, Florist, Trinidad, Colorado.

FOR SALE—At a bargain, a florist's business in a thriving city near St. Paul Proof, profits for 1891 over $1,300 For particulars address
SELLER, care American Florist, Chicago.

FOR SALE—Three greenhouses, in a good location most suitable for an enterprising florist to make money. Business correspondence promptly answered. JOEL ROE, Colorado Springs, Colo.

FOR RENT—Five brick greenhouses, already stocked; one 20x40, three 20x60 and one 13x30, with 6-room brick dwelling, nicely located in city of 65,000. Address C. G TURNER,
1513 Franklin St., Wilmington, Del.

FOR SALE—Steam thresher boiler and 12-horse power engine, in good repair; will carry 100 lbs. of steam. Just what you want for heating greenhouses, running pumps, saws, etc. Discarded on account of being too small for heavy work. A bargain for someone. Address
R. DAVIS & SONS, Morrison, Ill.

FOR SALE—Rose growing plant containing 25 000 square feet of glass, with property, situated 25 miles from New York City; stock and houses in A1 condition; plants are growing for next season's planting, mostly Am. Beauty and La France. Will sell on easy terms. Address
ROSE GROWER, care American Florist.

FOR SALE.

Nine greenhouses, containing about 16,000 feet of glass, ½ best double glass; all houses rebuilt 4 years ago; heated by hot water—use city water for watering—2 acres of land, 1 brick dwelling house with 8 rooms, 1 frame house of 4 rooms, stable, horse, harness, wagon, etc. The above property is located in one of the best commercial cities of the west, with a population of over 60 000, and within 1¼ miles of city hall; electric cars pass every 6 minutes direct to city hall and Union depot. The greenhouses are well advertised and enjoy a good patronage at home and from abroad, and now contain a good stock of cut flowers, decorative and bedding plants. Poor health causes owner to retire from business. Would also be willing to sell greenhouses and stock and lease grounds and one dwelling house for a number of years, with privilege to purchase at a fixed price when lease expires. A bargain to a man with small capital. Address BUSINESS,
care American Florist, Chicago.

WANTED.

Twenty large EUPHORBIA SPLENDENS. Name size and price.

SALZER SEED CO., LA CROSSE, WIS.

Mushroom Grower and Florist: Competent man open for engagement; 27 years' experience in mushroom growing. Can take full charge. Best of references. For further particulars, address J, care Jno. Gardiner & Co., Phila., Pa.

A Rare Chance to Make Money Sure.

FOR SALE, a Floral Establishment at Bar Harbor, Maine.

Consisting of two greenhouses, stable, 10,000 bedding plants and choice palms Best location near postoffice. Will sell at a bargain with good will of the business. Reason for selling, too many irons in the fire. Address B 102, Bar Harbor, Maine.

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— OF —
Plants, Seeds and Florists Requisites

EVANS & KING, Florists and Seedsmen,

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Great Bargain.

Beautiful corner lot of one acre; street on two sides; electric cars; close to Melrose Highland line; seven and one-half miles from Boston. Said lot contains four large hothouses well stocked with roses and pinks; cottage of seven rooms, with pantry. A very desirable piece of property, but will be sold at a sacrifice on account of the owner going to the Pacific coast. Apply to or address

JAMES ASTLE, Melrose Highlands, Mass.

ROSES.

All leading Forcing sorts. Our stock is in **SPLENDID** condition. Send for samples.

AMERICAN BEAUTY.	2½-inch	7½ cts
	3½-inch	12 cts
	4-inch	14 cts

We will put in some extra plants to help out on express charges east of Pittsburg.

— ALSO —

PERLE, BRIDE, HOSTE, WOOTTON, MERMET, ALBANY, LA FRANCE, C. SOUPERT, MME. P. GUILLOT, $5.00 per 100.

AND OTHER LEADERS.

CHEAP BEDDERS
CLOSE THEM OUT.

100	Mignonette	2 cts
400	Agrippina	2 cts
500	Marie Guillot	3 cts
150	Marie Lambert	2 cts
200	Margaret Dickson	5 cts
400	Douglass	2 cts
150	Gloire de Dijon	3 cts
200	Maurice Rouvier	4 cts
150	M. Niel	4 cts
300	Vick's Caprice	3½ cts

FREESIAS NOW READY.
Select Quality, $1.00 per 100.

Vegetable Plants.

We carry a full supply of the best leading market varieties, and can ship carefully packed at the proper season. Special prices on application.

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ROSE PLANTS.

All the Standard Varieties, best for forcing. Strong, healthy plants in 2-inch and 3-inch pots propagated and raised from best wood. Price list sent on application.

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IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

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TEAS $30.00 per 1000
HYBRIDS 40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

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The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100, Waban, $6.00; Duchess of Albany, and Meteor, $5.00 per 100; La France, Bride, Sunset, $5.00 per 100; Perle, Mermet, $4.50; Bennett, $8.00 per 100.

Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

C. A. SMITH FLORAL CO.,
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ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

FRANCES B. HAYES, AND OAKMONT,

HYBRID BOURBON. HYBRID REMONTANT.

Extra fine Selected Stock for the Trade.

JOHN N. MAY, Summit, N. J.

SUNNYWOODS GREENHOUSES,

Headquarters of the new pink rose **BRIDESMAID.**

$25.00 per 100 three-inch plants.
9.00 per dozen four-inch plants.

FRANK L. MOORE, CHATHAM, NEW JERSEY.

ROSES.

We offer for sale this season **30,000 FIRST QUALITY FORCING ROSES** grown from strong cuttings in 3 and 4 inch pots, ready for immediate planting.

LA FRANCE and AMERICAN BEAUTY, 3-inch pots, $9.00 per 100; 4-inch pots, $12.00 per 100.

WABAN, MME. HOSTE, SOUV. DE WOOTTON, BRIDE, SAFRANO, NIPHETOS, PERLE DES JARDINS, SUNSET, MERMET, BON SILENE, PAPA GONTIER,

3-inch pots, $7.00; 4-inch pots, $10.00 per 100.

☞ Send for rose circular. We wish every florist needing roses to read it.

J. L. DILLON, - - Bloomsburg, Pa.

100,000 ROSES

for florists' planting, strong, healthy plants of the leading varieties for forcing.

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20,000 CHRYSANTHEMUMS,

100 varieties, including Novelties of '92, and the best standard sorts. Send for catalogue.

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NOW READY FOR PLANTING

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

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Wholesale Florists,

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YOUNG ROSES.

Mermet, Bride, Perle, Gontier, 2½-inch pots, $35.00 per 1000.

Mrs. Jno. Laing, Gen. Jacqueminot, 3-inch pots, $6.00 per 100

Bouvardia Davisonii, $2.50 per 100.

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Kills Mildew and Fungus growth. What does?

GRAPE DUST.

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AT LAST!

	Per 100
ASTERS in var. and mixed, 2-inch	$ 1.00
GREVILLEA ROBUSTA, 2-inch	5.00
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5/ at 100 rates. Asters are outside grown, 4 to 6 inches high. Cash.

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The Cut Flower Worker's friend. Fine book of 160 pages. Send **$3.50** for it, to

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OUR NEW TRADE DIRECTORY

— AND —

Reference Book

FOR 1892

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It contains an accurate list of the Florists, Nurserymen and Seedsmen of America; the statistics of the Florist, Nursery and Seed Trades from the last U. S. census; a complete list of all National and Local Trade Organizations, with just the information about each that you want convenient for reference; alphabetical lists of Roses, Chrysanthemums and Carnations, up to date, and whose accuracy as to spelling of names, class, date of introduction, etc., you can depend upon.

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M. W. BARROWMAN'S
NEW CELERY THIMBLE FOR BLEACHING.
Also 5, 8, 9 and 15 pound Climax Grape Baskets.
Manuf'd by J. E. CRANDALL, Brocton, N. Y.
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Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

We begin in this issue our annual announcements of coming exhibitions. We shall be pleased to receive advice of dates of exhibitions as determined, and of omissions (if any) of those already set.

Toronto, Ont., July 20-21—Annual flower show, Electoral District Society. J. P. Edwards, Sec'y, 146 Wellington St, West.

Boston Sept. 6-9—Annual exhibition plants and flowers, Mass Hort. Society Robert Manning, Sec'y, Hort. Hall, Tremont St.

Boston, Oct. 4-6—Annual exhibition fruits and vegetables, Mass. Hort. Society.

New York, Nov. 1-7—Chrysanthemum show, New York Florists' Club. Wm Plumb, mgr. of exhibition. Madison Square Garden.

Philadelphia, Nov. 7-11—Chrysanthemum show, Pennsylvania Hort Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

Toronto, Ont., Nov 8-10—Chrysanthemum show, Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 276 Victoria St.

St. Louis, Mo., Nov 8-10—Chrysanthemum show, St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania Ave.

Boston, Nov. 8-11—Chrysanthemum show, Mass. Hort. Society. Robert Manning, Sec'y.

Chicago, Nov. 8-11—Chrysanthemum show, Hort. Society of Chicago. G. L. Grant, Sec'y, 322 Dearborn St.

Indianapolis, Nov. 15-19—Chrysanthemum show, Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Massachusetts Ave., Indianapolis.

Pittsburg, Pa., Nov 15-19—Chrysanthemum show, Pittsburg and Allegheny Florists' and Gardeners' Club. G. Oesterle, Sec'y, 4200 Forbes St., Pittsburg.

Baltimore, Nov. —— Chrysanthemum show, Gardeners' Club of Baltimore. J. J. Perry, Sec'y.

Cincinnati, Nov. —— Chrysanthemum show, Cincinnati Florists' Society. E. G. Gillett, Sec'y, 134 Walnut St.

Pittsfield, Mass, Nov. —— Chrysanthemum show, Berkshire County Gardeners' and Florists' Club. A. H. Meredith, Sec'y, Pittsfield.

Erie, Pa., Nov —— Chrysanthemum show, Erie Chrysanthemum and N. W. Penna. Hort. Society. H. Tong, Sec'y.

OWING to a mistake on the part of the P. O. Department at Boston certain mail matter addressed to one of our advertisers, the Bay State Hardware Co., 272 Freeport street, Boston, has been returned to the writers with the statement that there was no such street in the place named. Freeport street was formerly Commercial street, Dorchester, and the recent change in the name had not come to the notice of the P. O. Department. Hereafter there will be no trouble.

THE COMMITTEES of the horticultural division of the World's Congress Auxiliary of the World's Columbian Exposition have issued a notice urging all interested to so arrange their plans as to visit the exposition during September, 1893 so as to attend the sessions of the Congress.

THE Ohio Experiment Station, Columbus, O., is advertising for bids for the erection of seven greenhouses on its grounds near Wooster, O. Proposals will be received until July 8.



PALMS
By the 1000.
DECORATIVE SIZES.
GROWING ON SIZES.

DRACÆNAS, all Varieties.
DRACÆNAS, Canes for Propagating.

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—— FOR ——
WINTER CUTTING.
ADIANTUM CUNEATUM.
Strong, healthy plants, ready for planting, 3-in. pots, $6 per 100; $55 per 1000.
Also nice plants for ferneries, four varieties 3-inch pots, $6 per 100.
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The Finest Stock in the World.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
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WILL BE READY SOON.
We will have a fine supply of the best varieties.
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MICHIGAN Wild Flowers Orchids, Ferns, Shrubs and Trees, Bog Plants and Aquatics, for parks, flower gardens, rockeries, bogs, ornamental waters and carp ponds. The World's Columbian Exposition buys them. Retail, Wholesale and Carp Pond Catalogues, each free.
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Cyclamen Persicum Giganteum.
BEST STRAIN IN EXISTENCE.
Strong plants, ready now for 3 and 4-inch pots, $1.25 per dozen; $7.00 per 100; $60.00 per 1000.
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Tuberous Begonias.
Small plants by mail, in colors, per 100, $3.00; mixed, $2.50.
We also have now strong plants in 2-inch pots, ready for planting out, per 100 (weigh 40 lbs.), $4.50; mixed, $4.00.
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Freesia Refracta Alba.
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First consignments of the bulbs of this charming winter flower just to hand in fine order. We offer this year lower than we ever did before. See page 6 of the special price list we sent you recently. Do not order elsewhere until you have seen our prices. Plant now for Christmas flowering.
JOHN GARDINER & CO.,
Bulb Growers and Importers,
PHILADELPHIA, PA.

Verbenas
IN BUD AND BLOOM.

	Per 100	Per 1000
Mammoths—Large fine flowers	$ 3 00	$25.00
General Collection—Good collection	2.50	22.00

Roses. Fine, healthy stock from 2½-inch pots. Waban, Pearl, Mermet, Mme. Hoste, Sunset, Mme. Cusin, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, S. d'un Ami... 5.00 45.00
H. P. Roses, in bud and bloom, 4 and 5-inch pots, strong plants..... $15 to 25 00
Tea Roses, in bud and bloom, 4 & 5-in. pots, strong plants..... $10 to 15 00
Alternantheras, 4 vars., strong plants.. 4.00
Cannas, strong started bulbs, 4-in. pots. 8 00
Tuberoses, " " " 4-in. pots. 6 00
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☞ Send for price list of other stock.
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ROSES, CLEMATIS, AZALEAS,
RHODODENDRONS, SHRUBS, Etc.
Always on hand in New York from November until May.
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600 ACRES. 13 GREENHOUSES.
TREES AND PLANTS
We offer a large and fine stock of every description of FRUIT and ORNAMENTAL TREES, Shrubs, Roses, Vines, Small FRUITS, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS. Priced Catalogue mailed free. Established 1852.
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All Flowers in Season.
Full line of FLORISTS' SUPPLIES.

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WIRE WORK A SPECIALTY.

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The Pioneer Florist of the Northwest.
—ALL KINDS OF—
CUT FLOWERS IN SEASON,
At Retail and Wholesale
And of plants the finest. Roses, Carnations, Smilax, Fuchsias, Begonias, Marguerites, Ageratums, Geraniums, Petunias, Double White Primroses, Palms, Ferns, White Daisies, Chrysanthemums, and all other plants usually grown by a first-class florist.
Send for Catalogue.
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HARDY CUT FERNS
MOSS {SPHAGNUM AND GREEN SHEET.
A 1 IVY LEAVES.
BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
HARTFORD & NICHOLS,
18 Chapman Place. BOSTON, MASS.



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Roses, Niphetos	2.00@	4 00
" Perle	3.00@	4.00
" Bride	4 00@	12.00
" Mermet	2 00@	6.00
" Jacq	1.00@	6.00
Carnations	.40@	1.00
Valley		4.00
Spiræa	1 00@	1 50
Stocks	1.00@	1 50
Sweet peas		.50
Coreopsis		1.00
Pink Pond Lilies		8.00
Smilax	12 00@	15 00
Adiantum		1 00
Asparagus		50.00
NEW YORK, June 28.		
Roses	1.50@	3 00
Carnations	25@	50
Valley	4.00@	6 00
Harrisii	4 00@	6.00
Sweet peas	.25@	.35
Harrisii	4.00@	6 00
Mignonette	1.00@	2.00
Smilax	10.00@	15 00
Adiantums		1.00
PHILADELPHIA, June 28.		
Roses, Brunners		12.50
" Beauties		15.00
" Mermets, Brides	3 00@	4.00
" La France, Albany	3.00@	4.00
" Perles, Niphetos	2 00@	3.00
Carnations	.50@	1.00
Sweet peas		1.00
Valley		5 00
Cornflower		.50
Water lilies		.50
Smilax	15.00@	20.00
Adiantums		1.00
CHICAGO, June 28		
Roses, Perle, Niphetos, Gontier	3.00@	4.00
" Bon Silenes		2.00
" Mermets, La France Hoste	3.00@	5.00
" Bennetts, Dukes, Woottons	4.00@	6 00
" Albany, Bride	4.00@	6.00
" Am. Beauties	12.00@	15.00
Carnations, long	1.00@	1.50
" short	.75@	1.00
Callas	10.00@	12.00
Adiantums		1.00
Smilax	20.00@	25.00
Pansies	.30@	.40

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Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.
Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
1 Music Hall Place, BOSTON, MASS.
Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
AUCTION SALES OF PLANTS SPRING AND FALL.

H. BAYERSDORFER & CO.,
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FLORISTS' SUPPLIES ONLY,
56 N. 4th Street,
PHILADELPHIA, PA.
Our new Catalogue is now out, free upon application.

CUT SMILAX.
Summer prices, 15 cents per string. Special attention to orders by wire.
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You will benefit the AMERICAN FLORIST by mentioning it every time you write an advertiser in its columns

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

EDWARD C. HORAN,
WHOLESALE FLORIST
34 W. 29TH ST., NEW YORK.
SUCCESSFUL SHIPPING OUR SPECIALTY.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY, Formerly 112 W. 40th St

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.

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Wholesale Florists,
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ELLISON & KUEHN,
WHOLESALE
FLORISTS.
1122 PINE STREET
ST. LOUIS, MO.
A complete line of Wire Designs.

The Seed Trade.

Foreign Seed Exhibits at the World's Columbian Exposition.

Information detrimental to the Horticultural Interests of the World's Columbian Exposition having been received by Chief Samuels, the following resolution relating thereto was adopted by the American Seed Trade Association at their Hartford Convention:

Hon. J. M. Samuels, Chief of the department of Horticulture, Chicago, Ill.

DEAR SIR:—The Communication of Frank H. Mason, Consul General of the United States at Frankfort on the Main, bearing date of June 2, 1892, in which he states that certain threatening letters have been sent by parties in this country tending to prevent exporters of seeds in Germany making an exhibition of their products at the World's Fair in Chicago was presented and it was, Resolved, That the American Seed Trade Association in convention assembled heartily deprecate any such course, that none of its members have ever participated in such a movement and express a hearty desire to have the fullest representation of the products of the world as relating to their business exhibited at that time.

A. L. DON, Sec'y. J. C. VAUGHAN, Pres.

REPORTS from pea and bean growing localities in Canada are that the season has so far been very unfavorable for peas. Early hardy sorts such as First and Best and Alaska are standing the wet weather well and look now as if they would give very fair returns, but wrinkled peas, American Wonder, Gems and Strategem are in very bad shape. The stand was very light in the first place and since, owing to much rain, the wrinkled peas did not come well. The vines are turning yellow and unless the conditions improve greatly from now out the shortage will be great on nearly all wrinkled varieties and there can not be a full crop on early smooth sorts. Beans are planted very late this spring, many lots having but just been put in the ground. With a favorable season a full crop is hoped for, but the usual early frosts in fall may catch the crop immatured, so it is impossible as yet to predict the result.

WINONA, MINN.—Aug. Sellentine at Youmans Bro's. greenhouses has as fine a lot of young chrysanthemums as can be found anywhere. Edward Kirchner will build a carnation house 75 x 10. His La France roses are exceptionally fine. Woodlawn Cemetery will build a three-quarter span rose house 75 x 18, this summer. Business fine; demand for cut flowers far in excess of the supply.

AURORA, ILL.—An attempt was made recently to set fire to R. Saunders' greenhouses. The attempt failed of success owing to the woodwork being wet and the only damage was the loss of several hundred plants from the smoke generated by the oiled rags and paper that the incendiary stuffed through a broken window and lighted.

JANESVILLE, WIS.—Spring trade in plants fully up to the average. Memorial Day trade larger than ever, mainly owing to the scarcity of out-door flowers. Greenhouse flowers plenty and sold well; orders all filled and flowers all gone at noon. The sweet girl graduate is now receiving our attention.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

Theodosia B. Shepherd, President. C. B. Boothe Sec'y and Treas.

VENTURA SEED AND PLANT CO.,
Ventura, Cal.

Succeed to the business of THEODOSIA B. SHEPHERD in growing Choice **SEEDS PLANTS and BULBS** for Seedsmen and Florists, and collecting **Rare Native Plants and Seeds.**

GROWN UNDER THE MOST FAVORABLE CONDITIONS OUR CALIFORNIA STOCK IS UNSURPASSED FOR STRENGTH, VIGOR AND RELIABILITY.

Special Attention given to Contract Orders.

HAVE YOU ROOM FOR ANY OF THESE?

Canna Ventura—"A prince among cannas." Largest flowers of any sort. Drooping petals 1¼ to 1½ inches across, taper to center of flower: self color, carmine and scarlet blended. 75 cents each; $8 00 per dozen. Special quantity rates All other well-known varieties in stock; strong bulbs; reasonable prices. Canna Seeds (Fall Delivery) Separate or mixed from Ventura. Mme. Crozy Star of '91, Doyen Sisley, President Carnot and thirty others of the best and latest sorts. Prices on application. Calla Bulbs (August Delivery) Per 100 $3.00, $5.00, $6 00, $8 00. Per 1000, $25 00, $45.00, $55.00, $65 00. Sets, per 1000, $3.00. Lephranthus alba—Fine for florists; spring bloomer. Per 100, $1.50; per 1000, $ 0 50 postpaid. Oxalis floribunda, rosea and R. alba—Per 100, $2.00, postpaid. Laurustinus—Strong Dozen, 75 cents. Hydrangea japonica variegata—Beautiful white and green foliage, pink flowers, strong. Dozen, $1 00; per 100, $4.00. Geraniums—Golden Bronze and Silver Leaf, 100 $1.50: Tricolor, Mrs. Pollock, Sunset, Glen Eyre Beauty. Dozen, 50 cents; per 100, $3.50 Egyptian Papyrus—Each $1.50; per 1 0, $10.00. Cyperus Alternifolius—Dozen, 50 cents; per 100, $3.00. Poinsettia—Dormant plants, 3, 4 and 5-inch pots, per 100, $8.00, $12 00, $20.00. Apple Geranium—Strong plants. Dozen, 50 cents; per 100 $3.00. Seeds—Smilax, fresh crop—Ounce, 30 cents: pound, $3.50 Special rates on quantity. Calliopsis Lanceolata—Ounce 35 cents; pound $3.00. Large quantities at special rates. California Fan Palm—Seeds 25 cents. Plants, 15 inches high, 100 $3.50, postpaid. Large, 3 to 5 feet high, each $1.00 to $1.50; dozen $7 50 to $13.00. Erythea Edulis or Gaudaloupe Island Palm—10 seeds 50 cents; 50 seeds $1.50; 100 seeds $2 50 Cacti Echinopsis Mulleri—Fine bloomer, very large satiny rose, funnel-shaped flower, 100 $5 00, $10 00, $15 00. Cereus Triangularis—Night bloomer. Magnificent flowers 9 inches across. Strong blooming cuttings, each 10 cents; 10 $7 00 to $10.00.

Send for our Catalogue and Special Trade List to dealers. Mention this paper.

ADIANTUM CAPILLUS VENERIS

The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.
3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.

Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it has many aliases. **Price, strong plants, $8 per 100.**

Owing to the heavy demand, our stock of this most desirable Fern, ready for immediate shipment, is getting low. In order to accommodate those who wish to make plantings later in the season, we will book orders now for delivery any time till July 1st. This will give florists who are now busy with their spring work an opportunity to secure their stock and have it delivered at a time when they can take care of it.

JOHN IRVINE CO.,
BAY CITY, MICH.

LILIUM HARRISII.

Original and largest growers of this important bulb.
OUR SPECIALTY!
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

SEND IN YOUR ORDERS FOR

Dutch and French Bulbs, Lilium Harrisii, Tuberoses, Lily of the Valley, best Hamburg grown pips. Only first-class goods handled.

F. W. O. SCHMIDT & CO.,
60 Barclay Street, NEW YORK CITY.

FOR SALE CHEAP,
PRIOR TO REMOVAL.
PALMS.

ARECA LUTESCENS.

2½-inch	$ 6.00	per 100
3 "	20.00	"
4 "	40.00	"
5 "	60.00	"
6 "	100.00	"

Extra fine, $1.50 each

KENTIA BELMOREANA.

2½-inch	$10.00	per 100
3 "	20.00	"
4 "	40.00	"
5 "	75.00	"

LATANIA BORBONICA.

2½-inch	$ 5.00	per 100
3 "	7.00	"
4 "	20.00	"
5 "	50.00	"
6 "	75.00	"

DRACENA TERMINALIS, 4-in., $10.00 per 100

Pandanus Veitchii.

4-inch....$35 per 100. 5-inch....$50 per 100
6-inch.....75 cts. to $1.50 each.

ROSES AND GENERAL BEDDING STOCK.

7,000 2-inch H. P's, good varieties.
7,000 2, 3 and 4-inch Teas; forcing stock.
1,000 2-inch Climbers.
1,500 2-inch Polyanthas.
1,500 2-inch Bourbons.

General assortment of Geraniums, Ivy Geraniums, Coleus, Smilax, Anthemis, Petunias, Ageratum, Cuphea, Fuchsia, Alternanthera, Manettia Vine, Moon Vine, Lemon Verbena, Anthericums, Asparagus, Clematis, Chrysanthemums (all leading varieties), Eucharis Amazonica, Heliotropes, Dahlias, Lantanas, Hydrangeas, Hibiscus, Begonias, Garfield and Lizzie McGowan Carnations, Vincas, Abutilons, Stevia, Poinsettia, Golden Feverfew, Sword Ferns, Cytisus, Primula Obconica, and Tuberose bulbs.

Prices given on application.

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1748 N. Halsted St., CHICAGO, ILL.
Mention American Florist.

EVERY FLORIST IN THE LAND

Should have a good bed of the New Giant Forcing

DAISY SNOW CREST

Introduced by Mr. H. A. Dreer.

We are Headquarters, and have 20,000 plants to offer at $1.50 per doz.; $10 per 100; $80 per 1000. It is easily and rapidly propagated by cuttings and division, and **NOW IS THE TIME** to get up a stock for fall planting. It is double the size of Snowflake and vastly superior in every way. Many of the blooms were larger than a silver dollar as we grew them last winter. It is a free and constant bloomer, requiring the same conditions as violets.

We also have a heavy stock of **Snowflake** that we wil close out at $1.50 per 100; $12 per 1000, for the next three weeks.

Yours very truly,
J. C. GIBSON, Woodbury, N. J.

EXTRA PANSY SEED.
Mammoth Sunbeam Strain.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; receive high praise from my customers. Every florist should be sure to sow it. Trade pkt. 500 seeds, 25 cts.; 3 pkts 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

Bulbs for Forcing.

Our preliminary list is now ready, and will be mailed free to all trade applicants. Large buyers should write for special quotations.

Our Improved White Roman Hyacinths are the Standard of Excellence.

WM. ELLIOTT & SONS,
The Pioneer Bulb House. *54 & 56 Dey Street,*
Established 1845. NEW YORK.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

We sell all kinds of Bulbs and Plants at very reasonable prices, f. o. b. cars New York City, direct from our large bulb farms, at Overveen, Bloemendale and Zantpoort, near Haarlem, Holland.

HULSEBOSCH BROS.,
P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.
Ask for General Wholesale Catalogue.

DAFFODIL BULBS for FORCING.

DIRECT FROM QUEENSTOWN.
One of the largest collections in Europe at HARTLAND'S, CORK, IRELAND.
As to quality, refers to leading houses of New York, Boston, Philadelphia, Chicago, Etc.
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24 Patrick St., CORK, IRELAND.
Daffodil Grounds, ARD CAIRN.

BUY YOUR
LILY OF THE VALLEY
FROM A RELIABLE QUARTER.
I offer for delivery from Nov. 15 to Dec. 15, the **VERY BEST, THOROUGHLY MATURED, TESTED HAMBURG FORCING PIPS,** f. o. b. cars Baltimore.
$1.25 per hundred.
$5.00 per five hundred
$8.50 per thousand.
$80.00 per ten thousand
Order now and be sure you will be satisfied.
Special prices for larger orders.
THEO. ECKARDT,
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Send for Catalogue of
JAPAN BULBS, SEEDS, AND SHRUBS.
ARAUCARIAS,
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HAARLEM, HOLLAND,
Grower and cultivator of choice Dutch Bulbs, Hyacinths, Tulips, etc., etc.; also of various bulbous plants, guaranteed true to name. Beautiful and attractive for gardens and conservatories. Orders solicited. Catalogues free on application to his agents,
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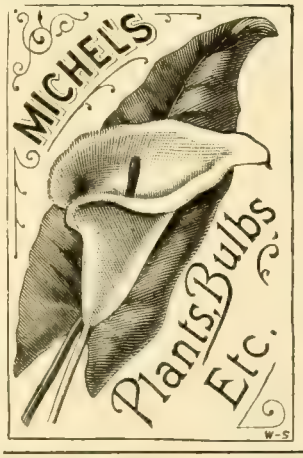
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IS NOW READY FOR DELIVERY.
I hold a Cable Code for same for quick delivery.
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SPECIAL LOW PRICES on **FIRST-CLASS FALL BULBS** hold good only until July 15th. We refer you to our Import List, mailed free to everybody in the trade.
W. W. BARNARD & CO.,
6 AND 8 NORTH CLARK STREET, CHICAGO.

R. VAN DER SCHOOT & SON,
HILLEGOM, - HOLLAND,
Largest Growers of
HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.
HEADQUARTERS FOR HIGH GRADE FORCING BULBS.
Wholesale Importers should write us for Prices.
OUR NEW TRADE LIST NOW READY.

SPECIAL CULTURE OF IMMORTELLES.
Dying by New Process solely reserved for this work. One of the first houses of Europe for Dying Immortelles.
Florists and Dealers will find decided advantages in buying of this house. Can furnish excellent references in North America and Great Britain. Samples and price list free on application. WHOLESALE ONLY. No Agents.
ALPHONSE ROCHE,
Cable Address: ROCHE, OLLIOULES. OLLIOULES, var. FRANCE.



Write for wholesale list.
MICHEL PLANT AND SEED CO., ST. LOUIS, MO.

BULBS. BULBS.
We book orders now for
Lilium Auratum, Speciosum Album, Speciosum Rubrum, Longiflorum, etc., Chinese Narcissus and
CALLA BULBS.
Cycas revoluta, fine imported stems, 10 cents per lb. Araucarias and Australian Palm Seeds.
Send for Catalogue. ***FELIX GONZALEZ & CO.,***
303 to 312 Wayne St., San Francisco, Cal.

AUGUST ROLKER & SONS
Supply the trade with all
FLORISTS GOODS,
Seeds, Bulbs, Imported Plants, Supplies, Etc., Etc. For prices examine Wholesale Catalogue.
Address with business card,
136 & 138 West 24th Street,
STATION E. NEW YORK.
Mention American Florist.

Bulbs and Plants.
SEND FOR CATALOGUE.
C. H. JOOSTEN,
IMPORTER,
3 COENTIES SLIP, NEW YORK.

V. LEMOINE & SONS,
NANCY, FRANCE.
Catalogue of novelties, including Begonias, Pelargoniums, Chrysanthemums, Gladiolus, Montbretias, etc., etc., can be had on application. Orders kindly solicited by their agents.
C. C. ABEL & CO, New York.

Toronto.

All the retailers I have seen seem to be pretty well satisfied with the late defunct plant season, but the wholesale growers are a little in the dumps and one can scarcely wonder at it, there is not much money in boxes of annuals (15 or 20 in a box) at 60 cents a dozen, or geraniums at $4.50 the hundred, and so on all the way down the list.

The meeting of the Gardeners' and Florists' Association was very well attended in spite of the weather being threatening and very hot. The discussions were short, lively and to the point. Two new members were elected and three nominated. All the business new and unfinished was disposed of before 10 o'clock and the boys got home early, at least it is to be hoped they did.

At an after meeting held near by the Washington convention and other things not eaten with a knife and fork were discussed and it was thought that the Toronto (and vicinity) contingent would amount to about 20 souls. I endeavored to impress on those present the necessity of sending in their photos to the FLORIST or they might be taken for Senators while at the Capital, which might make things more expensive.

Mr. Hollis had another seedling carnation at the meeting with a stem like a corn stalk and a flower as big as a hollyhock (more or less). Mr. H. is bound to make his mark as a carnation hybridizer.

Talking about big flowers reminds me to mention a big chrysanthemum story told by Mr. Geo. Vair at our last meeting. A Japanese gentleman, and a reverend gentleman at that, told him (Mr. V.) in the course of a conversation on chrysanthemums, that they grew flowers in Japan as large as the space made between two mens' arms joining hands. This beat Thorpe's ideal into a cocked hat and some of the members seemed to be of the opinion that either Mr. Vair or the reverend gentleman was stretching things somewhat, but Mr. V. promised at the next meeting to bring the r. g.'s sworn statement as to the facts of the matter. Perhaps some of your readers may have heard this already and can vouch for the truth of it, and if so, perhaps it would interest other readers to tell them all about it. E.

AUG. TOEFFAERT,
GHENT, BELGIUM,
Palms, Azalea Indica,
TUBEROUS BEGONIAS.
TRADE LIST ON APPLICATION.

PANSY SEED.
The Jennings strain of large-flowering and fancy Pansies. You want this strain of Pansies if you want the best stock, all carefully grown by myself, and first-class in every respect. To all my old patrons, will say, they will find a decided improvement from last year.
Finest mixed, all colors, pkt. 25c., 50c. and $1 each. Ounce, $6 00; 4 or more ounces, $5 00 per ounce.
Large yellow, black eyes pkt. 5 c. and $1.00.
Pure white, prepaid by mail, pkt. 50c. and $1 00.
Address, cash with order,
E. B. JENNINGS,
CARNATION, VIOLET AND PANSY GROWER.
Lock Box 254. SOUTHPORT, CONN.

TRY DREER'S GARDEN SEEDS
Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.
HENRY A. DREER, Philadelphia

UNITED STATES NURSERIES.
SPECIAL OFFER OF CYCAS REVOLUTA, The true long-leaved variety of Sago Palm.
We have received a quantity of fine, chunky stems of the true long-leaved variety of CYCAS, which is much superior to the common form. We offer same in the following sizes:

LENGTH	10	INCHES,	CIRCUMFERENCE	18	INCHES,	$1.20 EACH.
"	10	"	"	20	"	1.30 "
"	11	"	"	20	"	1.50 "
"	12	"	"	16	"	1.20 "
"	12	"	"	20	"	2.00 "
"	12	"	"	22	"	2.50 "
"	14	"	"	18	"	2.00 "
"	14	"	"	20	"	2.75 "

LARGER SIZES ON APPLICATION.

ARECA LUTESCENS SEED. We have just received from Brazil a large importation of Areca lutescens seed, which we offer at 90 cents per hundred; $7 50 per thousand. Germinating test 95 per cent.
SMILAX SEED. New crop now ready.
FREESIA REFRACTA ALBA. Send now for sample and price of our bulbs for July delivery.
PITCHER & MANDA, SHORT HILLS, N. J.

ORCHIDS AT WHOLESALE.
CATTLEYA TRIANAE.
An especially fine lot of this useful and Winter Flowering Orchid received.
PRICES ON FROM 1 TO 50 CASES ON APPLICATION.
I. FORSTERMAN,
NEWTOWN, L. I., NEW YORK.

PANSIES.
AS GOOD AS THE BEST, AND JUST A TRIFLE BETTER.
That is what my customers say, and they are in all parts of the United States and Canada—Maine to California, and Montreal to the Gulf of Mexico.
If care and attention will do it, they will be just a trifle better every season; quality is the first consideration, price the second, as an inferior strain of Pansies is dear at any price.
With superior facilities for handling trade and prompt attention to all communications I will make it a pleasure for you to deal with me and would respectfully solicit a trial order.
Good stocky plants from seed beds ready August 20th and after, at 75 cents per 100; $5.00 per 1000.
L. B. 338. ALBERT M. HERR, LANCASTER, PA.

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At the same price as is usually charged for printing without illustrations. We are Specialists in HORTICULTURAL PRINTING. Artistic and first-class work in every particular. No "kid glove" at any price. We do all our own work barehanded, and under our own personal supervision. No charge for illustration of any standard plant or flower.
Send for estimates on what you need. You will be pleased with our prices.
PINNEY & SHEPARD, Sturgeon Bay, Wis.

COLEUS.
From 2 and 2¼-inch pots.
$1.60 per 100. $13.00 per 1000.
J. GOODE, HERO,
YEDDO, CHAPMANI,
KIRKPATRICK, J KANE,
GLORY OF AUTUMN.
HENDERSON'S FIRE CREST, $3.00 per 100.
WATER HYACINTHS, 75 cts. per dozen.
Cash with order, or C. O. D.
S. B. FIELD, Roselle, N. J.
Mention American Florist.

CHRYSANTHEMUMS.
2½-inch pots, 25 leading sorts for cut flowers, $3 per 100; $25 per 1000.
CYCLAMEN PERSICUM GIGANTEUM, assorted colors, 2¼-inch, $6.00 per 100.
Address J. G. Burrow,
FISHKILL, N. Y.

GIANT PANSIES.
It's the BIG PANSIES that "take the cake" now. The best is none too good for your trade. The plants I offer are the Zirngiebel strain—best there is. It costs more than strains ordinarily sold, but I offer strong stocky seedlings. August delivery and later, at usual price: 75 cts per 100 by mail; $5 00 per 1000 by express. Strong transplanted plants, many of them showing bud, $1 25 per 100; $10 00 per 1000.
ALEX. McBRIDE, Alplaus, N. Y.

ROEMER'S SUPERB PRIZE PANSIES
The finest strain of Pansies in the World.
Introducer and Grower of all the leading Novelties
Catalogue free on application.
FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

Asparagus Plumosus Nanus.
Extra fine plants.
From 6-inch pots, $7 50 per doz.; $60 00 per 100. From 7-in. pots, $8.50 per doz. From 8-in. pots, $10 per doz.
ADIANTUM CUNEATUM, from 4-inch pots, fine plants, $15 00 per 100.
THEO. BOCK, Miami St., HAMILTON, OHIO.

CYCAS CIRCINALIS

We will receive this Fall a *choice* importation of Cycas Circinalis (fronds and roots cut off).

Remember that we make a specialty of the above, and for that reason can furnish better stock at ***lower*** prices than any other firm.

Sizes, from 6 inches to 12 inches. Also larger stems, from 2 to 3 feet. Prices on application.

ORDERS SHOULD REACH US BY AUGUST 1st to 10th.

REMEMBER you will save at **least 15%** by ordering from us.

Cycas Revoluta.

From 4 inches to 6 feet. Prices on application. Delivery from Jan. to March.

Japanese Lilies.

		Per 100	Per 1000
Lilium Auratum,	6 to 7 in. circ.	$2.50	$20.00
" "	7 to 9 "	3.50	25.00
" "	9 to 11 "	5.00	40.00
" "	11 to 13 "	7.00	60.00
" spec. album	6 to 8 "	6.50	55.00
" " "	8 to 9 "	7.50	65.00
" " rubrum	7 to 8 "	4.50	35.00
" " "	8 to 9 "	5.50	45.00
Extra fine Monsters		7.00	60.00
Lilium longi.	5 to 9 "	2.50	20.00
" "	7 to 8 "	3.50	25.00
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June Exhibitions.

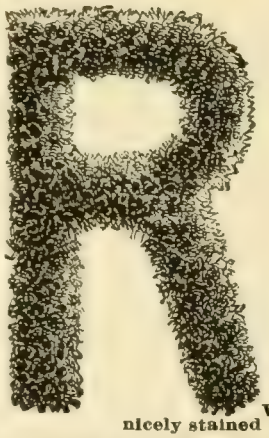
PROVIDENCE, R. I.—The June exhibition of the R. I. Horticultural Society was held on Tuesday, June 21. The number of exhibitors was very large and the prizes for roses, strawberries, etc. well competed for.

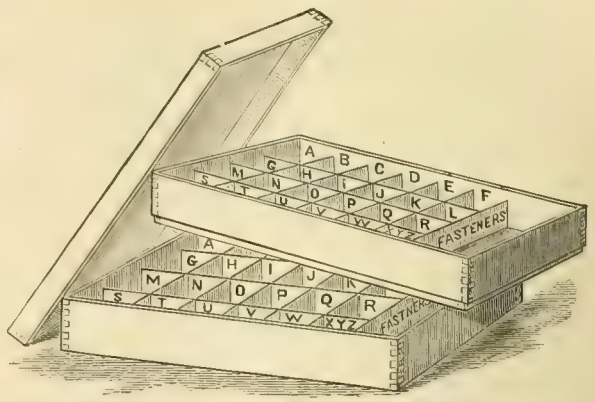
NEW BRITAIN, CONN.—The rose exhibition of the New Britain Horticultural Society on June 21 was a pronounced success. The society now has a membership of 125.

SPRINGFIELD, MASS.—There was a beautiful display of roses, laurels, tuberous begonias and hardy herbaceous flowers at the seventh annual exhibition of the Amateur Horticultural Society which took place in Union Armory on June 21-22.

HOLYOKE, MASS.—The first show of the recently organized Horticultural Society at Unity Chapel on June 22-23 was a great success. There were superb collections of roses, geraniums, lilies, palms and strawberries and much enthusiasm was manifested by the visitors. The society already boasts a membership of 169.

THE Hampden County Horticultural Society has distributed to the school children of Springfield, Holyoke and Westfield, Mass., nearly 5,000 chrysanthemum plants. The object is to stimulate a love of horticulture among the young, and any school child between the ages of 8 and 15 is entitled to plants.





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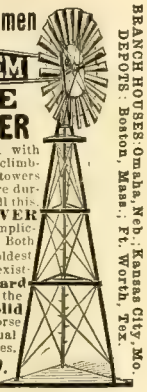
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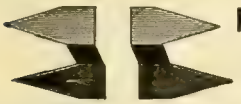
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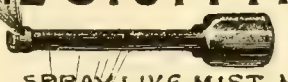
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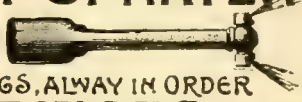
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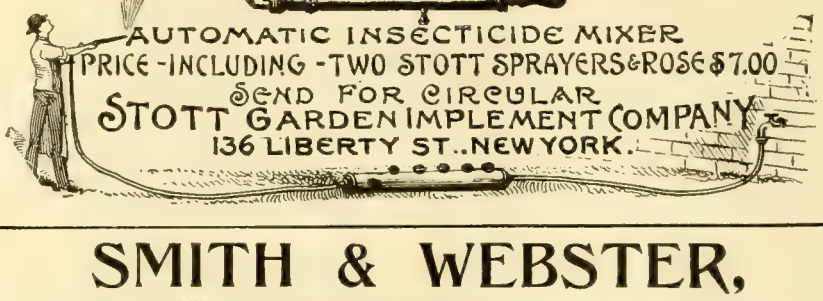
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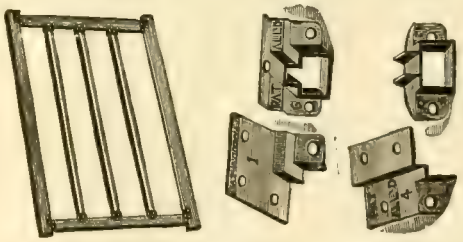
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The United States Nurseries Base Ball nine defeated the Alerts of Milburn, N. J. on Saturday, June 18th, by a score of 18 to 15. The Nurseries nine is composed of employes of Pitcher & Manda, and this being the first game of the season their victory was gratifying and more especially so as the Alerts are considered "good wood." It is singular that more nines are not started up among the florists; much sport could be derived and it is healthful exercise. The amusing feature of Saturday's game was W. S. Rogers as Mascot, attired in a tight fitting linen duster, the back of which had an artistically painted sign upon it, and having a silk hat of very ancient birth for a headgear. Nor was the Mascot forgotten when with victory they paraded the streets homeward bound.

The nine would like to hear from any other nine in the trade and games can be arranged by addressing the manager, Jos. Manda Jr., Short Hills N. J.

MAJOR ROGERS.

Hartford, Conn.

The summer exhibition of the Hartford County Horticultural Society took place on June 16 and 17 at Good Will Hall. Roses were the main feature of the show, splendid collections coming from Stephen Delbar, gardener to Gov. Bulkeley, Chas. P. Lincoln, A. H. Tillinghast, A. N. Pierson, of Cromwell, and others. There were meritorious displays of Sweet Williams, sweet peas, pæonies, etc., besides strawberries and early vegetables. On Wednesday evening Miss S. J. Smith delivered an interesting lecture on "Women in Horticulture."

Fancy Caladiums and Curculigos.

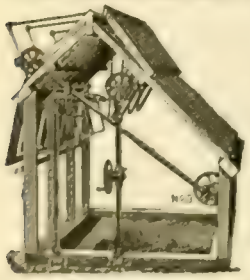
In the FLORIST for June 16, page 1024, mention is made of fancy caladiums as growing well only in shady places. They have been bedded out in full sun here in Anniston and have done splendidly. I have a bed of over 200 plants in fine colors.

The same reference has been made to Curculigo recurvata. I have one, used as a center plant in a tub, exposed to the full sun all day.

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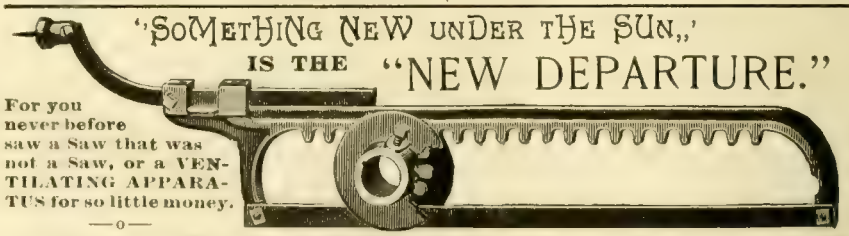
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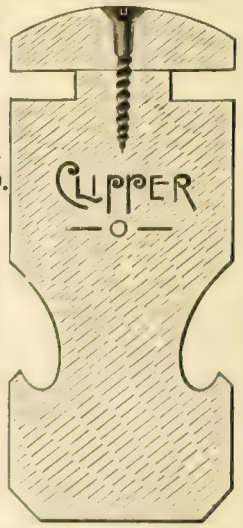
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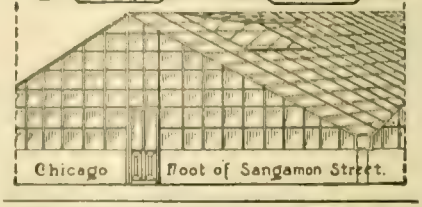
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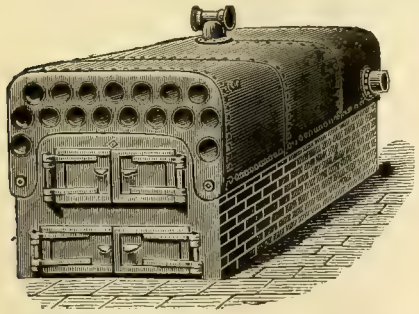
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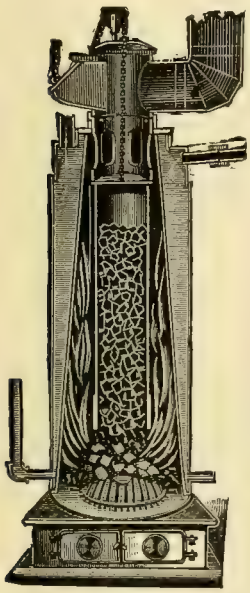
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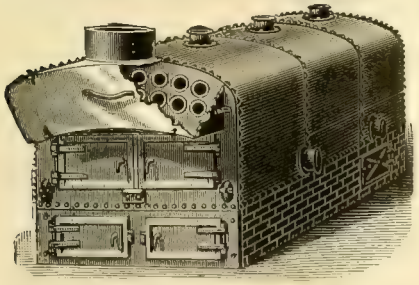
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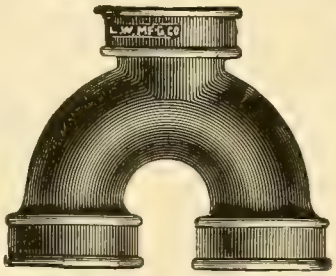
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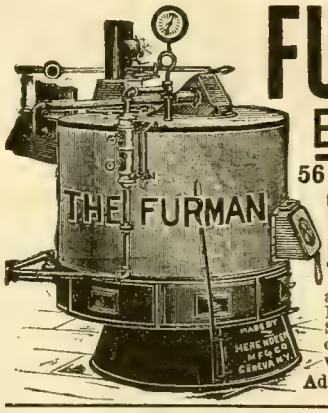
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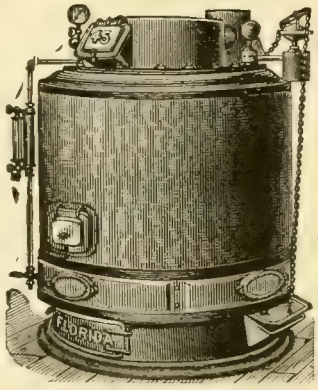
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BARABOO, WIS.—The summer meeting of the State Hort. Society was held here June 29 and 30.

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GALESBURG, ILL.—May 20 we had a slight snow followed by a freeze that killled beans, tomatoes, etc., and seriously nipped roses, catalpas and pretty much all young growth.

ATHENS, GA.—The annual exhibi[illegible] of the Ladies' Garden Club took p[illegible] May 27-28, and was the most s[illegible] yet. The exhibits were remarkably [illegible] and the attendance large.

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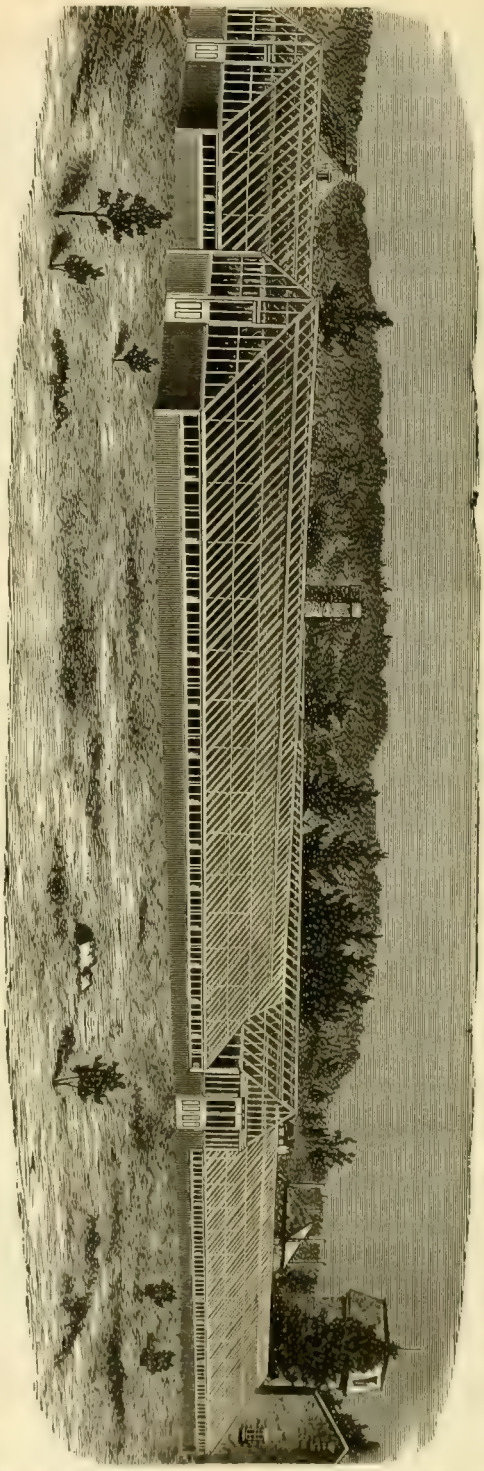
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Vol. VII. **CHICAGO AND NEW YORK, JULY 7, 1892.** **No. 214**

THE AMERICAN FLORIST

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James Dean, Bay Ridge, N. Y., president; W. R. Smith, Washington, D. C., vice-president; Wm. J. Stewart, 67 Bromfield St., Boston, Mass., secretary; M. A. Hunt, Terre Haute, Ind., treasurer.

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IF YOU have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

Flowers At June Weddings.

BY. H. H. BATTLES IN LADIES' HOME JOURNAL.

I once heard a man about to be married earnestly ask the advice of a friend as to the most suitable necktie for the bridegroom. The friend laughingly replied: "My dear fellow, that is of not the slightest importance. You need give yourself no uneasiness. Nobody will look at you. Of course, it is necessary for you to be there, but I assure you the interest of the occasion centers in and around the bride." The truth of this cannot be questioned, and the little belongings necessary to a bride are, therefore, of importance.

FLOWERS FOR THE BRIDE'S BOUQUET.

The bride's bouquet should always be made of white flowers. In England eucharis, gardenia, orange blossoms and stephanotis are frequently used; with us, very seldom. The most fashionable bouquet in America consists of white orchids, lily of the valley, or of white roses, following in the order named. Lily of the valley is frequently mixed with either orchids or roses, but orchids and roses are seldom used in the same bouquet. They are rival queens that are happiest apart. A pretty idea to arrange the bride's bouquet is to have it composed of several sections, that after the bride leaves the house the maid of honor may distribute to those friends whom the bride may wish to honor. The ribbon can remain on the section intended for the bride's mother. At times the bride has a favorite flower, or there may be a bit of romance or sentiment attached to some colored flower, such as a violet, or a jacqueminot rose, and she wishes this included in her bouquet. When they are used let it be a small bunch, partly concealed. After the reception it may be taken from the bouquet and worn on the traveling dress. The ribbon for the bouquet should be either three yards of three-inch ribbon to match the gown in tone and texture, or twenty or thirty yards of very narrow ribbon, with long bows, the ends extending down at different lengths, with delicate flowers attached to a number of these ends. Sometimes a large bow of ribbon is tied and arranged as though it were coming from the center of the bouquet. The ribbon thus used has no meaning, and is very apt to become soiled by the moisture on the flowers.

THE BRIDAL PRAYER-BOOK.

Some brides desire to carry a prayer-book in order to have a lasting souvenir. That there may be some personal association with flowers on that day, a few can be held in the prayer-book, and to prevent the stems and foliage from soiling the book the stems can be protected by silver foil or waxed paper.

THE MAID OF HONOR'S BOUQUET.

The bouquet carried by the maid of honor depends entirely on the complexion. If she is a decided brunette, there is nothing better than a big bunch of Jacqueminot, or Ulrich Brunner roses. If a blonde, let it be the delicate pink Catherine Mermet, or Mrs. John Laing roses. The arrangement of her bouquet should in some way differ from those carried by the bridesmaids.

FLOWERS FOR THE BRIDESMAIDS.

There are a number of pretty and effective ways that flowers can be arranged for bridesmaids. The conventional way is to make a round bouquet, arranged carelessly, using the foliage of the flowers of which the bouquet is composed. As the bride's bouquet is always white, those carried by the bridesmaids should, as a contrast, have some color. If the bride in choosing her attendants, has been fortunate enough to secure decided blondes and brunettes, strong and beautiful color contrasts can be obtained in both gowns and flowers. The flat cluster, or "rustic bunch," is often used. In arranging such a cluster it is wise to have it arranged carelessly, or rather not to interfere too much with nature. The effect should be as if the hand that carried the flowers was the one that gathered them, with no thought of arrangement. The flowers should have long stems and be allowed to fall as they will.

Baskets of various shapes filled with flowers are often used. Leghorn hats, drawn together in the shape of a basket, are among the prettiest arrangements. Draw the ribbon around the center, and tie a loop and bow on top. This can be carried either with the arm through the loop, or as a basket in front. The flowers in this case should be arranged very loosely, not only giving the impression that the hat is full, but flowers tumbling out.

The most picturesque arrangement for bridesmaids to carry is the "Directoire stick." These sticks are about five feet long, made of wood, either polished or covered with silk or celluloid, with a knob on top and a large bunch of flowers fastened with a bow of ribbon about a foot from the knob. A noon wedding in the country is the most appropriate at which to use these. Old-fashioned and picturesque gowns and leghorn hats add very much to the effect.

PAGES AND THEIR DUTIES

No fashionable bridal party is complete without little children acting as pages. Many little duties can be assigned to them. If ribbon is used across the aisles, they can be stationed there to lift it as the ushers pass. One of the pages can hold the bride's bouquet while the ceremony is being performed, another can carry a plush case for the prayer-book, if the bride wishes to use one, and, finally, they can gather up the ribbon, if it has been drawn the whole length of the aisle. As to the flowers these little folks should

wear, much depends on the sizes and costumes. If very little fellows dressed in white, get as large a rose as possible, a Baroness Rothschild, or an Ulrich Brunner. Let the stems be fully eighteen inches long, and pinned diagonally on the breast with all of its beautiful foliage. If lads of between twelve and fifteen, let them wear large buttonhole bouquets of some strikingly contrasting color to their costume. If little girls are to do the honor as pages, or maids of honor, let them carry very large or very small baskets: the smaller the child the larger the basket.

THE GROOM, BEST MAN AND USHER

The groom should wear a buttonhole bouquet, not very large, made of the same kind of flowers as the bride's bouquet—possibly one rose and two or three sprays of lily of the valley. One white orchid, if this be very small, and several sprays of lily of the valley are very effective. Gardenias are much sought after, and have been the favorite flower in London for wedding boutonnieres for a number of years. Six sprays of lily of the valley also make a very pretty bouquet.

The best man should wear a larger bouquet than that worn by the groom, made of the same kind of flowers as the maid of honor carries. The ushers should wear very large, white bouquets—four carnations is none too large, often as many as six are used. Either twelve sprays of lily of the valley, or six sprays of Roman hyacinth, arranged compactly, make a pretty bouquet.

The mother of the bride can either wear or carry a cluster of flowers that will harmonize with the gown that she wears. If it be a formal wedding, to carry the cluster is preferable; it should be a little smaller than the bouquets carried by the bridesmaids. If the bride has sisters, and should they not be of the bridal party, let their bouquets be decidedly different from those carried by the bridal party. The Father of the bride should wear a boutonniere much similar to that worn by the best man.

DECORATIONS AT THE RECEPTION

Several tall palms placed at the entrance of the house make an effective entree. These, with their graceful foliage, are combined so as to form an arch eight or ten feet high. It is then necessary to decide what is the most conspicuous point in the hall which the eye rests upon; make some effective grouping of palms here, massive if the space permits. The newell post is a feature that should be carefully considered, and made as effective as possible. Never put greens on the banister rail, as they interfere with its use in going up and down stairs. Unless the stairway is very wide, the outside is the most effective place. A line of laurel wreathing under the rail, with festoons of smilax caught up with several carnations, is very pretty. If you use wire in fastening the greens, see that no ends stick out that may endanger the gowns of the guests. All the mirrors and chandeliers should have attention. Pretty effects can be had with festoons over doors and arches. A few of the very choice flowers on the dressing case in the ladies' room is in good taste. In the reception room is where the most beautiful effects should be studied. The end of the room in which the bridal party receive should be literally made a bower of flowers. A large canopy of white flowers is generally arranged over the place where the bride and groom receive. This can be made a work of art in the handling of delicate flowers. On either side of this, and extending from the ceiling to the floor, should be large curtains of asparagus or smilax, caught back with a band of flowers. The mirror over the mantel can be framed with flowers. Two beautiful vases on the mantel can be filled, one with exquisite orchids, the other with long stemmed hybrid roses. The floral decorations in the room where the refreshments are served depends entirely on the size of the apartment. Often in country homes the porch is enclosed with canvas or boards; these are covered on the inside with evergreen trees, laurel branches, or what large and effective greens can be had. The most valuable and inexpensive green called wild smilax has recently made its appearance from the south. With it you can produce effects which would be impossible to obtain with any other greens that are now on the market. It comes in long, beautiful sprays; all that is necessary for you to do is to hang it up; nature has arranged it for you. The porch thus enclosed and decorated, small tables placed there in addition to those in the dining-room, a few flowers, possibly wild ones, arranged in dainty receptacles on each table, are touches that are always appreciated. In city houses, where the dining-room only is used, the table is simply used for refreshments. On this table some high arrangement of flowers should be placed. It is not practicable for anybody to sit at it, consequently the escorts and waiters serve the ladies in different parts of the house. A very sensible fashion at formal noon weddings is to have a separate room where the bridal party may breakfast. In addition to the bridal party, if there be distinguished guests, or those from a great distance, they can be included in this party. Nothing but green and white should be used in this room. The table decorations should be most delicate and dainty. Low effects only should be used, as there should be nothing to obstruct the view at the table as the bridal party are seated.

CHURCH ORNAMENTATIONS

The interiors of churches differ so much that it is difficult to lay down rules that will apply to all. If the interior of the church is constructed of natural wood, and the chancel decorated with dark colors, laurel wreathing is the best, and the broad-leaved Latania borbonica is the most suitable palm. If the interior is more delicate in form and color, the finer and more graceful palms, such as Areca lutescens and Cocos Weddelliana are desirable, while for garlands smilax or cultivated Asparagus plumosus are the most appropriate. In placing the plants the idea to have a background for the ligter colored costumes should be borne in mind. Care should be taken not to obstruct the view, and an unobstructed passage from the vestry-room must of course be left. The font should be filled with large, white flowers; a few palms can be used with good effect on both sides of the aisles. Tall ones are placed so that they may form an arch, and they do not obstruct the view of the guests too much. A pretty way to designate the front seats, reserved for the families of the contracting parties and guests of honor, is to tie large clusters of flowers on the ends of the pews thus reserved. Another and more common way is to have broad ribbon, with balls or baskets of flowers on each end; this is drawn across the aisle with the ends thrown over the pews. Another pretty and useful way to use ribbon is, after the guests have been seated, to have the ushers or little pages draw the ribbon the whole length of the aisle, resting on the top of each pew. This serves as a gentle reminder, as well, that it is the wish of the bride that the guests remain seated until after the bridal party march out.

Some Retail Notes.

Among bedding vines seen this summer are several of the passifloras, which seem a decided success. One strong and rapid grower, P. Forbesii (?) bears large and showy blue flowers; it makes a fine appearance in company with the lophospermum, which is now covered with its handsome rosy flowers.

Cuphea platycentra, (syn. C. ignea) forms a little variation in veranda boxes or similar situations especially when planted for immediate effect. Neat, well bloomed plants are quite salable in pots. The newer Cuphea Llavæ, with its oddly colored flowers, though not yet sufficiently known to be popular, should be satisfactory for similar uses.

Neat little plants of lemon verbena, pinched back to form a bushy habit sell as a pot plant in the autumn. Planted in a box or bed this plant is very handy for cutting; its perfume always makes it popular.

Another of the old stand-bys we find most popular in retail trade is the bouvardia. Nice, symmetrical plants in pots sell well for use in the house during winter. After the bedding trade is over the retailer finds it advisable to get up a stock of pot plants for winter use; in many localities the sales are large in this line. Where people have little conservatories we notice quite an increased demand for winter hanging baskets, which are filled with much the same class of stuff as those for summer use.

Shapely little dracænas, especially indivisa and terminalis are popular plants for conservatory use, sharing the popularity accorded to small palms. Again we find begonias in demand in the autumn, especially the rex varieties; they are always popular window plants. B. metallica is also admired, and can be very cordially recommended for the house. Winter window boxes of assorted plants seem to take very well in some localities.

Another of the popular winter plants is the abutilon, which a good many of our friends the amateuers call "Flowering maple." Plants in 4 to 6-inch pots seem the most salable, and the variegated leaf is usually preferred.

Several of the Chinese and Himalayan primulas will be found useful in a local retail trade. The ordinary double white Chinese is always a favorite, though not so much grown now as it was some years ago. We should make an exception, however, against P. obconica; it is pretty in its way, but rather risky to handle. For some years past the little English primrose has been fairly plentiful around New York, blooming about February or March, and these plants make a very attractive appearance in the florist's windows. Keeping them in the house the usual trouble is that the room is too warm; so long as they do not freeze a sunny window in a fireless room suits them far better than heat.

Ardisia crenulata is another retailer's plant for winter use; shapely and well berried plants are sold in very large quantities, especially around the holidays. It has the advantage, too, of staying in condition for a lengthy time; it is no uncommon thing for a second crop of berries to be maturing before the first is off the plant. Well-clothed plants in 4 to 6-inch pots are the favorite size. Some



FIELD OF IRIS IN BLOOM. TOKIO, JAPAN.

of the up-town florists in New York handle the ardisia in very large quantities. Care must be observed in keeping the plants clean; shabby foliage is ruin to its value. EMILY LOUISE TAPLIN.

Iris Kæmpferi.

The proper name is Iris lævigata. It is a native of Japan where it is made much of as a garden plant and holds a place in summer like what the chrysanthemum holds in fall. The Japanese people treat it as a sub-aquatic and grow it in large patches or fields for fine effect.

We treat it, as a rule, as a hardy herbaceous perennial and grow it in good, fairly moist ground, and it behaves admirably.

It is a splendid plant for florists to handle. It is hardy, very easy to grow and quick to multiply, and sure to give satisfaction to customers. It grows in tufted form like the common Iris Sibirica and not by spreading rhizomes like I. Germanica. In early spring these tufts may be lifted and divided into as many parts as practicable with roots to each division and replanted. It is better to do this in spring when the plants, having rested for the winter, are eager to rush into new life, rather than in fall when their tendency is to become dormant. If you divide in fall plant the divisions in frames, if in spring you can set the divisions right out into the open ground.

The plants are of upright growth, 2 to 4 feet high, and towards the end of June or early in July display their gorgeous blossoms. The flowers are waxy white, pale or deep blue, or purple of all shades, and are often marbled in a prettily variegated way. They are flat topped or partly drooping, 5 to 10 inches across and single, semi-double or double according to variety. While there are many named varieties, European and American raised, many of our finest sorts, as is the case with many of our finest chrysanthemums, have been imported from Japan and there is considerable confusion among the names of these varieties. When buying it is often as safe to specify particularly the color and style of flower you want as to order by name. Bear in mind also that the finest varieties are as robust as the poorest, and it is money in your pocket to get the very best, even if the first cost is greater, than to get indifferent sorts gratis.

These irises set seeds abundantly, and the seeds germinate well, and the young plants, with good treatment, bloom the second year. The flowers of all will be pretty, but you should retain the best only. You can not afford to give your customers anything of less merit than they would be likely to get from your rivals in business, rather strive to give them something better and ensure their perfect satisfaction and future patronage. WM. FALCONER.

Shipping Funeral Designs.

To pack a design is one thing and to have it arrive at its destination in good condition is another, therefore to secure the best results it is not only necessary to pack securely but to have the box or crate as light as possible and in such shape that it can be easily handled by the expressman.

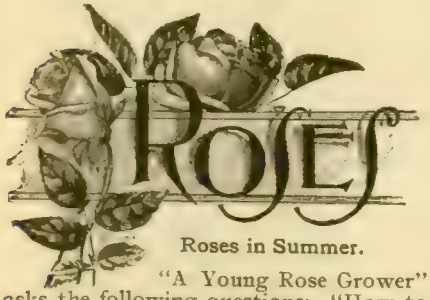
Suppose that it is a pillow that is to be shipped: After the design is made take a close measurement over the flowers and then make your crate to fit it. For this purpose we use common plasterer's laths and ½ or ⅓-inch lumber in convenient widths, say 6 and 8 inch. Saw out your boards for the bottom of crate and then bind together with a lath at each end. Then use laths for the four uprights at the corners and for the top, then wrap the crate in heavy paper and you have a light and serviceable crate, one that will not be handled nearly so roughly as an ordinary box, and by binding it tightly around with heavy twine there is something to carry it by which insures greater safety and care. Have a roll of heavy paper, 40 or 50 inches wide, and you can cut it any length desired to fit the crate.

To fasten the design so it will not move when tipped or possibly upset, use No. 22 wire, attaching it to the wire frame and binding it down to bottom of crate, and to the sides when it is a standing piece. For very large pieces security will be added by using 1x2-inch strips in place of laths.

When you have two or more designs, such as wreaths, crosses, etc., to ship to the same party the crate can be made with two or more decks, placing the pieces one above the other, but for larger designs it is best to have a crate for each piece, so one man can handle it without difficulty.

We have shipped our made-up work this

way for the past ten years and have yet to hear of one complaint from our out of town customers. It is a simple and quick way to pack; any smart boy can make such a crate in five or ten minutes, which is a great saving in time when you have only—say half an hour, to make up your piece, pack it and catch the train, as has been our experience quite frequently in the past. L. F. D.



Roses in Summer.

"A Young Rose Grower" asks the following questions: "How to feed them? How to get rid of mildew? Will liquid manure be better than top dressing of cow manure? How old should the same be before using? Is it good to shade a house during hot summer days if roses are wanted to grow and bloom well?" And thinking the answers may be of interest to some others I send to you for publication.

To feed roses for summer blooming, as "A Young Rose Grower" suggests, I would advise a liberal dressing of well decomposed cow or sheep manure, for this season of the year from three quarters to one inch in thickness; then after it has been evenly applied all over the soil give the whole a good watering with the hose, and if possible with a medium coarse rose on it; this thoroughly soaks every particle of the manure, settles it down firmly on the soil and carries considerable of the ammonia down into the soil where the roots, if active, will quickly take it up. If the soil is at all poor it would be well to give a light dressing of pure fine ground bone before putting the manure on; this is a great root producer, providing always that it is not allowed to become too dry in hot weather, in that case the young feeding roots in close contact with the bone would get burnt. Another advantage of this treatment is that it keeps the soil much more uniformly moist in hot weather, which is a very important point if a constant supply of flowers is wanted. If after two months or so of rapid growth the plants show indications of needing help it may be advisable to give a dressing of liquid manure once a week, as it must be borne in mind that it is much more exhausting to the plants to keep up a steady growth during very hot weather than during the winter.

"How to get rid of mildew?" This, in some localities, is rather a hard nut to crack, but, as a general rule, sulphur carefully applied will keep it in check. The best way to do this is to close the house say about 8 o'clock a. m., run the temperature up to 75°, then with a bellows or similar appliance fill the house full of sulphur, let the house remain closed until it reaches 85° to 90°, then put air on gradually until full amount is on. In addition to the above a good healthy atmosphere should always be maintained with a constant circulation of air day and night through the house. Keep the plants sufficiently moist to maintain a healthy growth but not soft, watery shoots.

Liquid manure is not as good as a mulching for summer growth. The condition of the manure will somewhat depend upon the treatment it has been subjected to. If it has been kept out of the way of heavy rains, etc., and turned over two or three times in a season it can be safely used at six to twelve months old.

"Is it good to shade during hot summer weather?" Yes; a light shading will be of great help to most roses during July and August, but it should only be a very thin shading, as, if too much, the blooms will come thin and of poor color.

A very essential part of the business is syringing. To keep rose plants healthy during the summer they must have liberal syringings, thoroughly moistening every particle of the foliage and stems, otherwise red spider will soon get the upper hand, then the flowers will soon become beautifully less every day.

There is also another class of growers who want to carry plants over from last winter for another season's work, but do not want them particularly to flower during July and August, but their main object is to get the best results out of them for next winter. To such I would advise a gradual withholding of water, or rather, gradually reduce the quantity given until the plants virtually stop growing; then if possible lift the plants with all the roots possible and a fair proportion of soil attached to each and replant them into new soil giving sufficient water to keep the leaves fresh, till they have made healthy new roots, then gradually give more water as required; mulch, etc., as formerly directed for young plants; under such conditions plants will often do as well the second season as the first. But there are certain reasons why it is almost impossible to renew the soil as above, and yet necessary to carry over the plants. In that case I advise the same treatment so far as giving them a partial rest, etc., as above, then about six weeks before the buds are required for the coming season go carefully through the whole, cutting out any weak wood and reduce the other slightly, but leave plenty of foliage to maintain healthy root action; then clean all dead leaves and rubbish off, at the same time scrape off as much of the old soil as is consistent without injuring the roots, then give a good mulching of fresh loam and well decomposed manure in about equal parts, say one to two inches according to what was taken off. Give a fairly good soaking of water each day for three or four days until the whole is thoroughly moistened, and if the resting process has been fairly well managed a grand crop of roses will be the result. Such a bed or bench of roses would, after the first crop was cut, take liberal liquid manure dressing and give the grower generous returns, but much depends upon the care they get during hot summer weather.

Summit, N. J. JOHN N. MAY.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

Cactus Bed, Fairmount Park, Philadelphia.

A most attractive spot in Fairmount Park, Philadelphia, last year, was back of Horticultural Hall, where the beautiful bed of cacti was located. That the cactus is a popular plant was plainly proven to the "unbelievers", for at all times of the day this bed was the object of admiration from groups of visitors, and carriages would halt before it by the half dozen. We are assured by the Superintendent, Mr. Menge, that this bed was the great feature of the park, and that hundreds of photographs were made of it by amateurs and professionals. Mr. Robert Craig, John Thorpe, and several prominent New York celebrities of the profession admired it, and this is something strange from a florist's point of view, as they are not partial to this class of plants.

The bed made an imposing appearance measuring as it did forty feet across. The plate, of course, gives no idea of the many beautiful colors, or the good taste displayed in their arrangement, which reflects great credit on Mr. Menge and his able assistants.

Echeverias in several sorts, such as metallica, secunda glauca, pulverulenta, and many others of smaller growth were used in quantities to produce rich effects in colors and masses. Among these were set the valuable specimens of cacti, among which could be found such rare sorts as Echinocactus Grusoni, Mirabelli, pilosus, etc. Even Pilocereus senilis was used freely, as well as many fine mamillarias. Most of the plants were supplied by A. Blanc & Co., Philadelphia.

For the bolder effects, tall growing euphorbias, cerei and opuntias were used, and, as many of them bloomed freely, they came in for a great share of admiration.

That cacti are destined to take a prominent place in gardens and parks, as they already do as indoor plants, seems quite evident. From many quarters we hear of large cactus beds and rockeries being planned, notably in Prospect Park, Brooklyn, but Fairmount Park, Philadelphia, will no doubt eclipse them all, as a very elaborate display is promised for this season. They certainly deserve more notice from the trade. B.

New York.

Cut flowers of all kinds are shortening up and there has been no overstock for the past week. White or yellow roses go at sight. The opening of a box of such at the market or the wholesalers' is the signal for a miniature mob of buyers who surround the possessor clamoring for a share. La France and Meteors are now coming in fine and are the best varieties of their respective colors offered. Lily of the valley is in steady demand with a rather short supply. The greatest avalanche at present is the sweet peas. They come in by bushels, and the quality is very good indeed.

Among the unusual things seen at the 34th St. market just now is Iris Kæmpferi, semi-double white. The flowers are cut and brought in in bud, ready to open. For funeral or basket trade they work in very well. Lilies, such as auratum, candidum and Harrisii are abundant.

The school graduations being over the principal work now for the florists will be for the outgoing steamers. With some firms this demand is quite steady and remunerative but it is of course confined to certain days. Most of the commencement work this season has been very moderate in price, rarely getting beyond a small bunch or basket. There was little or no class decorations of any moment.

Weddings in town are few and far between; there was one notable wedding during the past week, the house being elaborately decorated by Thorley. Sweet peas, both white and pink, were very



CACTUS BED, FAIRMOUNT PARK, PHILADELPHIA.

largely used, a combination of white lilies and white sweet peas forming the motive in one apartment, while white and yellow formed another arrangement. Pink sweet peas, Beauty roses and ferns were also used.

The sensation of the past week has been the assignment of C. W. Matheson, 673 Sixth avenue. The general confidence in Matheson's ability to pay any bills he might contract was such that the announcement of the assignment came like a thunderbolt from a clear sky to many of his creditors. The commission men, as usual in such cases, suffer considerably by the failure. Much severe criticism is heard and so general is the belief that Matheson has saved up quite a large sum of money, that no one acquainted with the circumstances can be found who believes it to be an honest failure. Matheson has a son, James, who is reputed to be a hard character. He was arrested recently on a charge of flim-flamming and his father gave bond for him. He is known to have used up considerable money in horse racing and his father may have been financially crippled in consequence. But there are many who believe that the father and son are cut out of the same material. The hearing is set for July 7th. Some of the creditors threaten to make it hot for Matheson. There have been several suspicious assignments among New York florists in recent years and it is high time that the severest measures were adopted and the extreme punishment meted out to any one proven guilty of dishonest failure. Every one who manages to slip through unpunished only serves as a shining example for some body else to imitate, and the end will not come as long as it can be done with impunity.

Robt. Bottomley is to take charge of Mr. Geo. Vanderbilt's new place at Aiken, North Carolina. The estate comprises about 7,000 acres and there are at present over 200 men at work laying it out under the direction of Mr. F. L. Olmstead. Among the grand features planned will be an extensive arboretum.

The next meeting of the N. Y. Florists' Club will be on Monday, July 11. A large attendance is expected as arrangements for the trip to Washington will be discussed.

Boston.

The last week in June is virtually the wind-up of the season in the cut flower trade. It is always a lively week and coming as it does after the outdoor roses are about finished and the indoor roses are nearly all thrown out, it puts both wholesalers and retailers to their wits' end to fill the demand satisfactorily. The past week has kept them all very busy. School graduations and belated weddings have all come in with a rush.

Roses of all kinds have been very scarce, more than that, they have been below the standard as to quality in many cases. But people have for the moment forgotten to be particular and everything goes. Roses that a fortnight ago would have been indignantly spurned have been greedily snatched up. White roses particularly have been sought for and there have not been near enough to go around. Carnations are shortening up at last. Never before have they been so abundant in this market as during the past month. It has been impossible to make any sort of disposition of them at times, especially the colored ones. But from the present time they will go all right probably, as most of the growers are clearing them out of the houses. The largest and finest lot of carnations coming to the city now are received by McCarthy from Homer Rogers' big establishment. They are Mrs. Fisher and Grace Wilder mainly, and these two varieties will sell if carnations can be sold at all.

For the great public school celebration in Boston on July 2 the customary city order for bouquets was divided as usual between a number of the florists, eight or ten of them having about 400 bouquets each to make. There was a large quantity of stocks, candytuft and candidum lilies available for the work, as well as double deutzia which is very useful, but the outdoor roses were sadly missed by several who have generally had a good crop of these in for the occasion in former seasons.

The Gardeners' and Florists' Club picnic will this year take a different form from that of previous occasions, inasmuch as it will be an inland trip instead of the customary harbor sail. Difficulty in finding a suitable boat, also the fact that every resort in the harbor has already been worked till it is an old story to the florists, has influenced the committee in its choice of a new field for the annual outing. It will therefore take place at Walden Lake in Concord, to which place conveyance will be had by special train over the Fitchburg R. R. The ladies will be taken along and a large variety of sports will be arranged for, dancing, bowling, boating, with athletic games of various kinds. Mr. W. H. Long is chairman of the committee and has taken hold of the matter with his usual push, and if enthusiasm and energy count the picnic of 1892 will be a notably successful one. The date will probably be July 28.

The Public Garden is just now the scene of a very extensive display of Harrisii lilies which are massed effectively in beds and borders. Two large groups of Harrisiis interspersed with fine plants of dark foliaged acalyphas are very pleasing. Following this display the tropical plants and specimen evergreens will be set out to form the main summer decoration. The roses have looked extremely well this season.

One of the most enjoyable drives in that

loveliest of suburban towns, Brookline, is through the beautiful estate of Prof. C. S. Sargent, which he has with commendable generosity thrown open to the public. The grand groups of rhododendrons and hardy azaleas have made a glorious display there this season.

The legal contest over the rights of the peddlers of flowers and other goods in the public streets has begun. Two of these individuals having been arrested, tried and found guilty, their attorney has taken exceptions, claiming that the ordinance under which they were convicted is unconstitutional, and the question will now go before the Supreme Court.

The regular Saturday shows of the Mass. Horticultural Society commenced on July 2 and will continue weekly through the summer.

James P. Clark, florist at 1 Park street, has made an assignment.

Philadelphia.

Good flowers are scarce, very scarce, it really seems to be harder to get a few roses together now than any time last winter.

Roses are very poor, La France being about the best; they sell for 3 and 4. Brides are scarcely as large as the end of one's little finger but bring the same price. Niphetos and Guillots are fair and sell for 3. Carnations still present quite a respectable appearance and are in demand at $1 a 100; sweet peas 25 and 50 a 100.

This city and vicinity has been visited by two violent storms the past week. The wind blew a hurricane, the lightning was terrific and there was considerable hail, but as far as we can learn the loss to the trade was very slight.

Mr. Frederick Hahman, Sr., has met with a severe loss in the death of his wife which occurred last Monday night. About a month ago a neighbor was passing the place with a young New Foundland dog, Mrs. Hahman patted the dog on the head when the animal turned and bit her on the hand. The wound, although slight, was promptly attended to and no more was thought of it at the time. Mrs. Hahman's hand healed up all right, but last Thursday she complained of a pain in her wrist, which became very much inflamed. Doctors were summoned immediately but their efforts proved unavailing. Hydrophobia was given as the cause of death. Mr. Hahman has the sympathy of the entire trade in his great affliction.

The next meeting of the Florists' Club should be a very interesting one. The convention at Washington, how we are going and other matters pertaining to that very interesting time will be discussed. It has been agreed to go by the Pennsylvania line and the rate to Washington and return will be a very favorable one. There are other pleasant things connected with this trip that we will have to speak of later on, but which are not sufficiently developed at present.

Mr. John May was in town one day last week, and together with Messrs. Westcott, Craig and Burton called upon the railroad companies. It goes without saying that when this quartette get together they are bound to accomplish something, and we are sure that those who take this trip will have every evidence of their success.

Mr. Jos. Heacock is tearing down some houses and erecting others in their place. He said they didn't run the right way. Mr. Heacock's roses have been about right this season, but we presume when he gets these houses turned round we will see something really grand.

Robert A. Stewart, late with Hugh Graham, has secured quarters in a drug store almost opposite on the northwest corner of 12th and Chestnut where he has a large corner bulk window. He has it fixed up attractively and will endeavor to build up a large business. We wish him success.

Bowling is still booming. All the boys have their eyes on Washington and a place on that team is a coveted position. In the match for a place Longinette leads with McLean a good second. K.

Washington.

Everything is painfully quiet, both about the market and flower stores, so far as business is concerned. Flowers plentiful but of inferior quality. Weather fine and pleasant. Had several very refreshing showers during the week which have wonderfully improved the looks of the parks. Everything looking fresh and green.

Messrs. Small & Sons decorated the Cathedral of the Scottish Rite, the occasion being the funeral of Mr. Felix C. Draney, a member of the rite and one of our very enterprising citizens, whose loss his many friends deeply regret. The casket was placed in the center of the hall, surrounded by groups of Areca lutescens; among these were several large spikes of yucca, giving the effect to the unproffessional, of the palms being in flower. Suspended from the balcony was a number of baskets of cut-flowers. The chairs in the East, West and South and the three lights were tastefully surrounded with foliage plants. Mr. Draney was President of the Washington Jockey Club at the time of his death, and the Club ordered C. Strauss & Co. to make a horse shoe to be sent to his family with their sympathy. This was a most artistic piece of work, being composed of a base of ivy leaves, and filled with 250 Bride roses and 300 lily of the valley; the design was 4 feet in diameter and was as rich a piece of work of its kind as I have seen for years.

Strauss & Co. are making extensive repairs to their houses, have erected a large barn and contemplate building a large carnation house; they are enterprising citizens.

Mr. Chas. D. Ball of Holmesburg, Pa., was in the city last Wednesday, looking up quarters for the Penna. florists during the coming convention. He promises to bring the largest delegation that ever attended the annual convention from his state. He was in excellent spirits and I presume made satisfactory arrangements with the hotels.

The Smalls are adding to their already handsome store a fine "cool air cut-flower show case." It is about 12 ft. long, 8 ft. high and probably 3 ft. deep, lined inside with beautiful tile and with a plate glass front. They are evidently getting things in shape for the convention.

At a called meeting of the National Gardener's Club held July 1, the various committees to attend to local details of the coming convention of the Society of American Florists were appointed. [See names and addresses of the chairmen of the committees under another heading. —ED.] C. LESLIE REYNOLDS.

OBITUARY.

DR. T. G. RICHARDSON died at his home in New Orleans May 25. It may not be too late to pay an humble tribute to the memory of this unpretentious but truly great, good man. His death is a serious loss not only to medical science but to horticulture and floriculture as well. The large variety of hardy and half hardy palms and other exotic plants successfully introduced and domesticated by him will ever remain living monuments to his love for, and services in behalf of, southern horticulture and floriculture. "Peace to his soul." M.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

H. AUGUSTINE, Normal, Ill., president; Z. K. JEWETT, Sparta, Wis., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A. WHITNEY, Franklin Grove, Ill., treasurer. The Eighteenth annual meeting at Chicago, June, 1893.

Nursery Notes.

TREES AND SHRUBS IN BLOOM JUNE 30.

My visit to the Arnold Arboretum three weeks ago has prevented me from following up a strict sequence of the trees and shrubs worthy of mention as they come into bloom without using up too much of your space. The great flush of trees and shrubs in bloom is past for a season, and from now on the number will be getting fewer, at the same time foliage and fruit effects will be increasing in variety and attractiveness.

PHILADELPHUS, deutzia, wiegelia and most viburnums are done blooming. The Chinese wistaria has begun its second crop; all other species are past. Rhododendrons are over, so too are Ghent azaleas. The bush honeysuckles are in fruit but the cat birds and robins ignore them, they like cherries better. This is sweet chestnut, prairie rose, catalpa and kœlreuteria week.

CATALPA SPECIOSA was in bloom with us a fortnight ago and now is all past. Catalpa bignonioides although barely at its best yet is in fine flower; C. Kæmpferi with poorer flowers by far is in about the same condition. I have never known the dwarf catalpa (C. Bungei as we call it) to bloom in cultivation.

AMERICAN, chinquapin, Japanese and Spanish chestnuts are all in bloom and the rose "bugs" happy at work among their blossoms. Some varieties, notably Numbo, are later than others.

KŒLREUTERIA PANICULATA is a broad headed small tree from northern China with immense panicles of small yellow flowers now opening into bloom, easily raised from seed, easy to grow, hardy and desirable.

CYTISUS CAPITATUS, a compact bushy shrub about 2 feet high, has every branchlet terminated by a head of yellow flowers. Nigricans and most of the other species are past.

AZALEA ARBORESCENS from the Alleghenies and A. viscosa from our eastern swamps are the only species now in bloom. They look a good deal alike, still they are quite distinct.

CEANOTHUS AMERICANUS is in good bloom and quite pretty.

THE DECIDUOUS HOLLIES, Ilex lævigata and verticillata, although more grown for their scarlet berries than their innumerable little white flowers, are nevertheless very pretty just now in bloom.

ERICA TETRALIX is in bloom. It is quite a common heather in moist peaty parts in Europe, midsummer blooming and hardy here. It has a grayish downy

caste, and terminal heads of pale rose bells. But this is not the "heather bell" of Scotland, that is E. cineria; nor is it the "ling" or late summer heather, that is E. vagans.

ELÆAGNUS LONGIPES in fruit.—I wish you could see our big plant to-day with its branches weighted to the ground with ripe fruit, and not a leaf marred by insect or fungus pest. Everybody who sees it wants it. Those of you who got for it umbellatus, the species which fruits in October, had better try again and get the genuine article.

INDIGOFERA DOSUA, a little pea flowered shrub from the Himalayas has been in bloom for nearly a fortnight and it will continue blooming for the next six weeks. Its flowers are rose colored, small but very pretty, in axillary racemes on the current wood. In a sheltered place it is hardy with us.

THE VENETIAN SUMACH now justifies its common name of smoke tree, but its American relative, Cotinus Americanus, has not attempted to make any smoke or ripen any fruit.

THE DOUBLE FLOWERING blackberry bushes are now in bloom and display very showy panicles of double daisy blossoms.

THE COMMON ELDER is still in moderate bloom, but much past its best. If it weren't for its commonness this would be a worthy shrub in our gardens, however, we have lots of room for it in the lanes and hedgerows.

ROSES.—The H. R. roses are pretty well over, and now when we want the basket filled we visit Mrs. DeGraw. The double prairie roses are in perfection, but in my opinion the best of them can not compare for loveliness with their first mother, Rosa setigera, which is now only opening. The wild Rosa Caroliniana is in bloom on the banks, in the waste fields and by the road sides. The double flowered microphylla is yet in good condition and although odd, rather pretty. R. foliosa isn't in flower yet.

HYDRANGEAS.—Vestita pubescens is about past. The early flowered variety of H. paniculata is almost white, but it will take a few days longer to reach its best. Thunbergii is fairly hardy and has terminal cymes of bluish tinged flowers. Can hardly include radiata and arborescens among handsome flowered shrubs, but quercifolia is a right showy species now in good bloom. You will find a splendid specimen of it in General Washington's old garden at Mount Vernon in Virginia which you must visit when you go to Washington in August. If I mistake not this shrub was planted there by La Fayette. And when there don't forget to ask about the Mary Washington rose a few of you have been quibbling about. You can buy a rooted cutting from the original bush right on the ground there for a few cents. But come back to hydrangeas. Those of the Otaksa, Thomas Hogg and the like types usually get killed to the ground, hence don't bloom; if any of last year's wood, however, escaped, the shoots from it will now be coming into bloom. Rosea, however, is hardier and earlier and it is in bloom with us now out of doors. And treated as an outdoor shrub all of the plants have pure rose colored flowers, whereas treated as a pot plant, even if not forced, the most of them have bluish blossoms, and it is a dirty blue most times. The climbing hydrangeas are mostly past. That known as Schizophragma hydrangeoides blooms when younger than H. scandens, and it isn't such a high climber. The southern climbing hydrangea (Decumaria barbara) is also in bloom; neither does it climb so very high before it blossoms.

MAGNOLIAS.—We are still getting a few blossoms on M. glauca and M. Thompsoniana X. The last named is generally supposed to be a hybrid between M. glauca and M. Umbrella, and its general appearance would indicate the truth of this. M. grandiflora (I can not call it fœtida) is also in beautiful bloom with us. We gather the branches in winter and set empty open-at-both-ends barrels over it, one above the other, till the whole plant is covered, and it keeps well in this way.

STUARTIAS.—The Japanese one (S. pseudo-camellia) used to be in fine bloom before this time, but our big specimen got so badly injured last winter on account of us cutting away some trees that sheltered it on the north side that it hasn't come into flower yet. The American S. pentagyna, however, is in full bloom and quite pretty, and it will continue in bloom for two or three weeks yet. The Japanese makes the prettier bush, but its flowers are much more fugacious than are those of pentagyna.

JASMINUM OFFICINALE is the white flowered jasmine so common in gardens in Europe and so seldom grown here. It is a woody vine indigenous to northern India, but long cultivated in gardens, and perfectly hardy in our middle states. The vines grow 10 to 12 feet high with us and are now in nice bloom. The plants are thrifty, and although they may get a little cut in in winter, by this time of the year they are so full of young, fresh wood, one would never suspect they had felt a winter's breath at all.

SPIRÆAS.—There are lots of them in bloom, and many of them are showy and beautiful, but their names are peculiar. In early summer white is the prevailing color among spiræas, but now it is pink. The prevailing types now in bloom are Japonica, Douglasii and salicifolia. Japonica is the most numerous and is represented by Bumalda, the best of all summer blooming pink spiræas; callosa alba, white; atrosanguinea, deep red; Fortunei semperflorens, deep pink. Douglasii from the northwest has dense, thyrsoid, terminal panicles of rose-colored flowers; Nobleana is a variety of it with looser panicles; sanguinea has darker flowers. In the salicifolia section, that known as Spiræa alba, or properly S. salicifolia paniculata, is the best among the whites, and syringæflora among the pinks. This last named has been in bloom for a fortnight and is a very showy, neat variety. Salicifolia itself is a fair plant. The pygmy S. bullata often called crispifolia is in bloom, so too is Tobolksii, which comes in later than sorbifolia. S. discolor ariæfolia will be better next week than it is now.

BENTHAMIA JAPONICA has been in bloom for over a fortnight and the flowers are fair yet. They much resemble those of our dogwood, Cornus florida, but instead of the bracts being imperfect as they often are in the dogwood, in the benthamia they are of perfect mould. The benthamia blossoms when it is in full leaf, the cornus before its leaves appear, and the foliage is deep green, glossy and handsome and occasionally shows a white variegation. There are two varieties, one with larger leaves than the other. Benthamia fragifera, the one so much grown in southern Europe is not hardy here, and our Japonica is very little known in Europe.

PRIVETS.—Old plants of any of the species make fine blooming shrubs. The common privet (Ligustrum vulgare) is out of bloom, and Ibota, an exceedingly free flowering species is nearly past; but ovalifiorum, the California privet, is studded all over with white panicles. About Washington and southward L. Japonicum and L. lucidum will now be in fine bloom; they are neat, tree-flowering, showy shrubs, but not quite hardy here.

LINDENS.—What are generally known as "European" lindens have been in great bloom for a week or more. Tilia platyphyllos was the first to bloom. I never before saw it so full, and its fern-leaved variety is just as full. Tilia vulgaris is the one in finest bloom just now. T. ulmifolia, another of the same group, is also in flower. Under the name of T. Mongolica we have a very distinct linden with small birch-like, deeply serrated leaves; it is now beginning to bloom. Tilia Americana has commenced to open its flowers. The silvery linden (I. argentea), and the drooping linden (I. petiolaris) are later still and haven't expanded a bud yet.

Long Island. WM. FALCONER.

Pachysandra Terminalis.

In a note, page 1050, I referred to P. procumbens when *terminalis* was the name I meant to have used. P. procumbens is a modest little plant from the Alleghenies and inferior, in a decorative way, to the Japanese plant. I have grown all three, namely, P. terminalis, its variegated form, and P. procumbens for several years. The American species is also grown at the Arboretum, but is not so well thought of as the Japanese one. WM. FALCONER.

Magnolia Watsoni and the English Botanists.

Apropos of my note about this magnolia, June 9, page 1009, the venerable Samuel B. Parsons of the Kissena Nurseries, writes me:

"What is the matter with the English botanists? Are they never willing to give Americans credit? Our Magnolia parviflora named in 1891 by Sir Jos. Hooker as Watsoni was introduced by us into this country through the enterprise of Thos. Hogg and named by us in 1875. If the name is changed from that we gave it, it should be by us, and we should call it after Mr. Hogg. The English cannot plead ignorance, for we advertised and sold it ten years before it appeared in the Paris Gardens, and it was well known here when they named it at Kew."

The committee on nomenclature of the S. A. F. in their report last fall covered this case exactly. See Proceedings of Seventh Convention ('91), page 91. "In the case of new species of plants, the first published botanical name takes precedence, but this publication must be technical and made in a recognized botanical or horticultural periodical or work, and not in a trade catalogue." Messrs. Parsons' magnolia was named in their trade catalogue twelve years ago and the name was kept up by them ever since in their catalogue, but as the plant was a species and not a garden variety, the botanists cared not a crack of their fingers for Messrs. Parsons' name or catalogue, and named it just as they pleased, and their name will stand. This is pretty galling but we cannot help it. We know the law, and if we will profit by it, we must take timely advantage of it.

When at Professor Sargent's the other day I called his attention to this same Magnolia Watsoni case and he answered:

"Well, I agree with you, I don't see the justice of naming it Watsoni."

The English botanists, or European botanists anywhere, don't give us any more credit than we deserve. Our only hope, therefore, is to fight our own battles and name our own plants, and that too before they cross the Atlantic, and publish these names properly, then the Europeans can rename them if they wish to, our name being the original one will stand forever in spite of theirs.

WM. FALCONER.

As California Views It.

Under the heading "Hostile Nurserymen" the San Francisco Call of June 5 publishes the following:

The dispatches from Atlanta, Ga., announce that the National Association of Nurserymen have passed resolutions antagonistic to California fruit interests.

Secretary Lelong of the State Board of Horticulture said yesterday that the enmity of the Eastern nurserymen is caused by the fact that California has exercised a strict surveillance over all imported orange trees. The result was that local quarantine officers have destroyed 325,000 diseased orange trees since last spring which were shipped from Tahiti and that 152,000 peach trees from the East shared the same fate. The latter were infected with the most incurable and contagious disease, called the "yellows," and the nurserymen who shipped them here are now so angry that they are ready to advocate any measure calculated to do California some harm.

Circulars have of late been spread throughout the country by the nurserymen in the East alleging that California dried fruits are dangerous to the consumer because they are handled by Chinese and because they are sulphured. As a matter of fact white boys and girls handle the principal portion of our fruit crop, and there is a very limited use of sulphur. Sulphur, which is not injurious, is only used now for the purpose of bleaching and preventing fermentation.

A Vicious System.

Under the above heading *Meehan's Monthly* says: "A well known firm, dealing largely in peach seed, received an order from a California nurseryman, who got an idea that Tennessee natural peach stones would make better trees for Californian peach orchards than the in-and-in bred peach stones of California. The disease commission refused to let the owner have them unless the shipper would make affidavit as to the exact locality where the stones were grown. Affidavit was made that they were truly Tennessee seed from ungrafted trees—but as the collections had been made from different localities the exact spot which produced these stones could not be truthfully stated. This was not satisfactory, the peach stones were burned, the customer would not pay the bill for the stones, and the railroad company came on the shipper for the freight as well; he lost the whole bill. If the shipper had "lied just a little" and given some little orchard in Tennessee as *certainly* the spot, it would have been all right, but what is to be thought of a system which offers a premium to the unscrupulous and shuts out the honorable dealer. It is a wonder the eastern nurseryman himself is not shut out from California, for fear some terrible bug get through on his clothing, which has caught on from the trees on his grounds. The regulations usually injure the makers more than the enemy."

Under the heading "Points not well taken" the *California Fruit Grower* comments as follows:

"The quarantine system adopted by this state to prevent the introduction of peach "yellows" and other infectious diseases is denounced by *Meehan's Monthly* as a "vicious system." It also cites a case in which a consignment of peach pits from Tennessee was burned because the consignor was unable to identify, on oath, the exact locality where each small lot making up the aggregate shipment was produced. But we must protect our peach interests; and Brother Meehan would be the last to condemn a system which held vessels in quarantine in cases of even suspected infectious diseases on board. On the broad principal of self-preservation and the greatest good to the greatest number we are certainly justified in taking stringent measures against the possible introduction of fruit tree pests of every name and description. Incidentally and temporarily it may work hardship to some honest men, but in the long run, and on the broader scale, it must result in good to all honest and careful nurserymen, fruit growers and dealers. It has been the almost criminal negligence, coupled with dense ignorance of the past, that has brought upon us at last the positive necessity of the most stringent regulations for the proper safeguards to our most promising industries."

It seems to us that the *Fruit Grower* fails to meet the main point made by Mr. Meehan, which is that the system "offers a premium to the unscrupulous and shuts out the honorable dealer." It fails to protect from men who will make affidavit to any statement that will advance their financial interests, and it is from such dealers that protection is most needed, while the men who are injured are the very ones with whom commercial relations should be cultivated.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

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SITUATION WANTED—By experienced propagator, plant grower and landscape gardener. Married, no children. Highest references. Address LOUIS ARDON, 1642 Valley St., Washington, D. C.

SITUATION WANTED By a first-class florist; German; single; 20 years of age; experienced in growing roses, carnations and cut flowers. Best of references. Address C W, P O Box 219, Minneapolis, Minn.

SITUATION WANTED—By young man, 6 years' experience in growing roses, carnations, chrysanthemums and bedding plants; temperate and of good character. Address with particulars 625 E. Water St., South Bend, Ind.

SITUATION WANTED By a young man, age 26; great experience with orchids and all kinds of exotic plants. Single. Either private or commercial. Good references. Address ORCHID GROWER, Oasis Nursery Co., Westbury Station, L. I.

SITUATION WANTED By competent, single florist and gardener; experienced man in all branches pertaining to the business. Please state full particulars in answering. WM K, care John Stidle, 93 2nd St., Allegheny City, Pa.

SITUATION WANTED—As florist or gardener' capable of taking charge of a large establishment, commercial or private; 18 years' experience in all branches. First-class references. Married. Address M, care Mr. Gasser, West Rockport, O.

SITUATION WANTED—By a first-class florist; single; German; 24 years of age; well experienced in all branches, especially propagating, growing of roses and cut flowers. Good decorator and cut flower worker. First-class recommendations. Chicago or suburb preferred. M, care Am. Florist.

WANTED—Partner; single man to take half interest in greenhouses. All new. 5,000 ft. of glass. Address J. SIMPSON, care American Florist.

WANTED—Man; must understand inside and outside work; industrious, and has to be a good worker—no other need to apply; steady place. G. HEINRICH, Crete, Ill.

WANTED—Small hot water boiler with pipes, fixtures, etc., for heating two houses 10x50 ft. State kind, price f. o. b., age and heating capacity. JOSEPH BANCROFT, Cedar Falls, Iowa.

WANTED—On a commercial place, single man as assistant—German-American preferred. Address, giving age, recommendations and wages required, C. HORNUNG, Edgely, Bucks Co., Pa.

WANTED—A man to take charge of a commercial plant of 14 greenhouses, to grow mostly cut roses and small rose plants. Prefer married man. Must have good references—others need not apply. Address LAROCHE & STAHL, 1237 Chestnut St., Philadelphia, Pa.

WANTED—Thoroughly efficient man as foreman in greenhouses; over 10,000 feet of glass; only place in large western city; demand exceeds supply; extension needed. Man with small capital can invest, taking an interest. Address at once Box 40, care American Florist, Chicago.

FOR SALE—Greenhouses and stock. For particulars, address W. S. SAWYER & Co., Lincoln, Neb.

FOR SALE CHEAP—A nursery business in a western town of 20,000. A rare chance for a good florist. Address A, care American Florist.

FOR SALE—Devine hot water boiler, 1,500 ft. 4-inch pipe, sashes, glass, etc. Must be sold at a sacrifice. Bargain for one who is going into business. T. D. RIMMER, 2714 Fifth Ave., Chicago.

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FOR RENT—Five brick greenhouses, already stocked; one 20x40, three 20x60 and one 13x30, with 6-room brick dwelling, nicely located in city of 65,000. Address C. G TURNER, 1513 Franklin St., Wilmington, Del.

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2½-inch	7½ cts
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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A GENERAL INTRODUCTION.

There has been some little complaint of the difficulty of identifying those we would like to meet and become personally acquainted with at the annual conventions of the Society of American Florists. Various plans to make identification easier have been suggested, but all have either been impracticable or have had some objectionable feature that militated against their adoption.

The AMERICAN FLORIST proposes to solve this problem in a way that will we believe be eminently satisfactory to every member of the society, and without any expense to that organization. Our plan is to print in our convention supplement portraits of every member of the Society of American Florists who expects to be present at the Washington meeting. Of course, in order to give space to such a large number, each one will be reduced in size, but they will be good portraits and large enough so that the originals may be readily recognized from them. These portraits will be numbered consecutively and the names given opposite their respective numbers on an adjoining page, and there will also be given in the supplement an alphabetical list of the names, referring to the portrait by number, so that reference from and to the portraits will be quick and convenient.

If you expect to be present at the Washington meeting next August, and are a member of the Society of American Florists, or expect to join at Washington, please send us a recent photograph of yourself, cabinet size preferred. If you have no recent photo, have one taken. This should be attended to now, for with the great amount of engraving that will have to be done we must have the photos in hand by July 15 at the latest. And do not send photos that need to be returned to you as they will have to be cut in arranging in the groups. If you have a good recent photo send it in to us now, always writing name and address on the back.

JUNE 30 Mr. G. H. Leahy withdrew from the Dingee & Conard Co., West Grove, Pa., selling his interest to the original owners. The separation was with mutual good wishes. Before considering the future Mr. Leahy will take a good rest, not having had what might be called a vacation for five years past.

S. E. B.—The matter has been thoroughly discussed in these columns. The majority considered hot water best for small establishments and steam for large ones—where a night fireman was kept.

YOU CAN never invest $2 to better advantage than in a copy of our new trade directory and reference book.

THE third annual report of the Missouri Botanical Garden has been received from the Director, Prof. Wm. Trelease, St. Louis. Among much other valuable matter it contains the result of Prof. Trelease's recent study of the yuccas, freely illustrated by handsome plates of numerous varieties.

IF YOU have any really good thing to sell to florists, don't fail to show it at the trade exhibition at Washington in connection with the annual convention of the Society of American Florists. All the live men in the trade will be there, and they are the men who are quick to discern merit in anything that really possesses it.

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Extra fine plants.
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First consignments of the bulbs of this charming winter flower just to hand in fine order. We offer this year lower than we ever did before. See page 6 of the special price list we sent you recently. Do not order elsewhere until you have seen our prices. Plant now for Christmas flowering.
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	BOSTON, July 6.	
Roses	4.00@	6.00
Carnations	50@	.75
Valley	4.00@	6.00
Pink Pond Lilies		8.00
Stocks		1.00
Sweet peas		.25
Stephanotis		1.00
Candidum	2.00@	3.00
Harrisii	4.00@	6.00
Smilax	12.00@	15.00
Adiantum		1.00
Asparagus		50.00

	NEW YORK, July 6.	
Roses	3.00@	4.00
Carnations	35@	.50
Valley	5.00@	6.00
Harrisii	4.00@	6.00
Sweet peas	.25@	.35
Mignonette	1.00@	2.00
Smilax	10.00@	15.00
Adiantums		1.00

	PHILADELPHIA, July 6.	
Roses, Brunners		12.50
" Beauties		15.00
" Mermets, Brides	3.00@	4.00
" La France, Albany	3.00@	4.00
" Perles, Niphetos	2.00@	3.00
Carnations	.50@	1.00
Sweet peas		.50
Valley		5.00
Cornflower		.50
Water lilies		.50
Smilax	15.00@	20.00
Adiantums		1.00

	CHICAGO, July 6.	
Roses, Perle, Niphetos, Gontier	3.00@	4.00
" Bon Silenes		2.00
" Mermets, La France Hoste	3.00@	5.00
" Bennetts, Dukes, Woottons	4.00@	6.00
" Albany, Bride	4.00@	6.00
" Am. Beauties	12.00@	15.00
Carnations, long	1.00@	1.50
" short	.75@	1.00
Callas	10.00@	12.00
Adiantums		1.00
Smilax	20.00@	25.00
Pansies	.30@	.40

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HARDY AND TROPICAL, DAY AND NIGHT BLOOMING VARIETIES.
All the newest and choicest in cultivation. Catalogues free. Special trade rate.
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Coming Exhibitions.

Toronto, Ont., July 20-21—Annual flower show, Electoral District Society. J. P. Edwards, Sec'y, 146 Wellington St , West.
Eaton, O., Aug. 11-13—Annual flower show Eaton Floral Society. H. E Jephson, Sec'y.
Washington, D. C., Aug. 16-19—Annual trade exhibition of Society of American Florists. C. F. Hale, Supt. of exhibition.
Boston, Sept. 6-9—Annual exhibition plants and flowers, Mass. Hort. Society Robert Manning, Sec'y, Hort. Hall, Tremont St.
Galt, Ont., Sept. 7-8—Exhibition of fruit and vegetables Galt Hort. Society. Edward Lane, Sec'y.
Boston, Oct. 4-6—Annual exhibition fruits and vegetables, Mass. Hort. Society.
New York, Nov. 1-7—Chrysanthemum show, New York Florists' Club. Wm. Plumb, mgr. of exhibition, Madison Square Garden.
Philadelphia, Nov. 7-11—Chrysanthemum show, Pennsylvania Hort. Societv. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
Galt, Ont., Nov. 8-9—Chrysanthemum show Galt Hort. Society. Edward Lane, Sec'y.
Toronto, Ont., Nov. 8-10—Chrysanthemum show, Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 276 Victoria St.
St. Louis, Mo., Nov. 8-10—Chrysanthemum show, St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania Ave.
Boston, Nov. 8-11—Chrysanthemum show, Mass. Hort. Society. Robert Manning, Sec'y.
Chicago, Nov. 8-11—Chrysanthemum show, Hort. Society of Chicago. G. L. Grant, Sec'y, 322 Dearborn St.
Washington, Nov. 15-17—Chrysanthemum show Washington Florists' Club. G. W. Oliver, Sec'y, 1844 8th St. N. W.
Indianapolis, Nov. 15-19—Chrysanthemum show, Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Massachusetts Ave., Indianapolis.
Pittsburg, Pa., Nov. 15-19—Chrysanthemum show, Pittsburg and Allegheny Florists' and Gardeners' Club. G. Oesterle, Sec'y, 4200 Forbes St., Pittsburg.
Baltimore, Nov. —— Chrysanthemum show, Gardeners' Club of Baltimore. J. J. Perry, Sec'y, 221 N. Liberty St.
Cincinnati, Nov. —— Chrysanthemum show, Cincinnati Florists' Society. E. G. Gillett, Sec'y, 136 Walnut St.
Pittsfield, Mass, Nov. —— Chrysanthemum show, Berkshire County Gardeners' and Florists' Club. A. H. Meredith, Sec'y, Pittsfield.
Erie, Pa., Nov. —— Chrysanthemum show, Erie Chrysanthemum and N. W. Penna. Hort. Society. H. Tong, Sec'y.
Bay City, Mich., Nov. —— Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y.

DECATUR, ILL.—N. Bommersbach has added 7,000 feet of glass to his greenhouse capacity.

UTICA, N. Y.—The annual banquet of the Utica Florists' Club was held June 29. About 35 covers were laid and a most enjoyable time was had.

GALT, ONT.—The Galt Hort. Society will give an exhibition of fruit and vegetables September 7 and 8, and a chrysanthemum show November 8 and 9.

INDEPENDENCE, KANS.—The continuous rains this spring were beneficial to vegetation, but now it is hot and dry and the ground hard. We will hold a "mum" show this fall.

MILWAUKEE.—Mr. P. J. Deuster, on Blue Mount road, who started into growing roses for cut flowers about a year ago, has had phenominal success, and he is now building seven more large houses.

EATON, O.—The Eaton Floral Society will give its second annual flower show August 11 to 13 next. The premium list has been issued and copies may be had of the secretary, Mr. H. E. Jephson, Eaton, O.

WARREN, PA.—The evening of June 27 we had the heaviest hail storm ever known here. Some of the hail stones were as large as butternuts. Great damage was done to trees and glass. The florists all suffered heavy losses. E. V. Coleman lost 800 lights of glass, and his total loss will be from $200 to $250. D. Offerly lost about 300 lights of glass and Miss Fitzgerald 300 to 400.

LILIUM HARRISII (Bermuda Easter Lily).

FIRST CONSIGNMENT due this month. SECURE our extra large sized bulbs by placing your orders NOW. and COMPARE our prices and sizes before ordering elsewhere. We are yet in position to ship any number.

LILIUM HARRISII.

	Inches.	Inches.	Inches.
OUR UNEQUALLED LARGE SIZES:	6-7	8-9	10-11
OTHER DEALERS' SIZES:	5-7	7-9	9-11

NOTE DIFFERENCE IN CIRCUMFERENCE OF BULBS.

Ours contain no small Bulbs whatever, whereas those usually sold contain at least 50 per cent. of the smallest size we exclude entirely. Send us estimate of your wants for prices.

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NOVELTY.

DWARF CALLA LILY "THE GEM". Large flowering bulbs, $20 00 per 100. Special price for large quantities. Grows from 9 to 12 inches in height; flowers smaller, pure white and more profuse than the common Calla, which makes it indispensable for design work.

CYCLAMEN PERSICUM GIGANTEUM SEED. Best English strain. New crop now ready.

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Our preliminary list is now ready, and will be mailed free to all trade applicants. Large buyers should write for special quotations.

Our Improved White Roman Hyacinths are the Standard of Excellence.

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We book orders now for
Lilium Auratum, Speciosum Album, Speciosum Rubrum, Longiflorum, etc., Chinese Narcissus and
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Cycas revoluta, fine imported stems, 10 cents per ft. Araucarias and Australian Palm Seeds.
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SANDER'S,
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Thirty minutes from London.
Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 206 Greenwich Street, New York City.

Orchids. Orchids.

Surplus stock, in 10 showily flowered, easily grown varieties. Strong, clean.

100 PLANTS FOR $25.

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CYCAS CIRCINALIS

We will receive this fall a *choice* importation of Cycas circinalis (fronds and roots cut off).

Remember that we make a specialty of the above, and for that reason can furnish better stock at lower prices than any other firm.
Sizes, from 6 inches to 12 inches. Also larger stems, from 2 to 3 feet. Prices on application.

ORDER SHOULD REACH US BY AUGUST 1st to 10th.

REMEMBER you will save at **least 15%** by ordering from us.

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From 4 inches to 6 feet. Prices on application. Delivery from Jan. to March.

JAPANESE LILIES.

		Per 100	Per 1000
Lilium Auratum,	6 to 7 in. circ.	$2.50	$20.00
" "	7 to 9 "	3.50	25.00
" "	9 to 11 "	5.00	40.00
" "	11 to 13 "	7.00	60.00
" spec. album	6 to 8 "	6.50	55.00
" " "	8 to 9 "	7.50	65.00
" " rubrum	7 to 8 "	4.50	35.00
" " "	8 to 9 "	5.50	45.00
Extra fine Monsters		7.00	60.00
Lilium longi.	5 to 9 "	2.50	20.00
" "	7 to 8 "	3.50	25.00
" "	8 to 10 "	4.50	40.00
" tigrinum fl. pl.		4.50	40 00
" " splendens		3.50	30 00
" Krameri, two sizes, $4 to		5.50	$35–50
" Elegans Thunbergi		4.00	35.00
" " Atropurpureum		5.00	40.00
" " Incomparable		4.50	40.00
" " Semi flore pleno		4.50	40.00
" Batemanni		4.50	40.00
Nerine Japonica, fine bulbs, true		1.75	12.50

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V. LEMOINE & SONS, Florists, Nancy, France, New varieties of Plants and Bulbs a specialty, etc.

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PACIFIC HEIGHTS NURSERY CO., San Francisco, Cal. Rare Japanese, Chinese and other Bulbs and Plants.

G. A. VAN DER GOOT, Nurseryman, Elst, Netherlands. Fruit stocks, etc.

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Catalogues (mention which) free on application when received for distribution.
All orders for these houses should be plainly written and addressed to us.

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There is no trade to speak of just now, the holidays are on and every body of any consequence has gone to Europe, the sea side, the lakes or the mountains.

Now that work is getting slacker your correspondent intends visiting some of the principal gardens in and round the city and will endeavor to give some account of their beauties in future notes.

E.

From Chicago to Washington.

The Chicago Florist Club has secured a special low rate from Chicago to Washington over the Pennsylvania R. R., unquestionably the best route, and the train selected will take the party over the Allegheny mountains during the day time so there will be opportunity to fully enjoy the magnificent scenery. Florists in the west and northwest are cordially invited to join the Chicago party and share in the advantages secured. Berths may be reserved by addressing any member of the committee, whose names follow: G. L. Grant, 322 Dearborn street; J. C. Vaughan, 146 W. Washington street; P. J. Hauswirth, 318 Wabash avenue.

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New crop seeds of those superb strains now ready, in trade packets of 1,500 and 600 seeds respectively, at one dollar each.

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Mammoth Sunbeam Strain.

A grand collection of giant flowering varieties very large, of perfect form, and choice colors; carefully selected; receive high praise from my customers. Every florist should be sure to sow it. Trade pkt. 500 seeds, 25 cts.; 3 pkts 60 cts.; 6 pkts. $1 00.

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AS GOOD AS THE BEST, AND JUST A TRIFLE BETTER.

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If care and attention will do it, they will be just a trifle better every season; quality is the first consideration, price the second, as an inferior strain of Pansies is dear at any price.

With superior facilities for handling trade and prompt attention to all communications I will make it a pleasure for you to deal with me and would respectfully solicit a trial order.

Good stocky plants from seed beds ready August 20th and after, at 75 cents per 100; $5.00 per 1000.

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The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower:

1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.

2nd. It can be bedded out on a bench or under the edge of a bench, and will last for several years.

3rd. It requires no season of rest.

4th. It will stand watering with the hose and fumigating with tobacco smoke.

Best for the Cut Flower man:

1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum,

2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

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Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it has many aliases. **Price, strong plants, $8 per 100.**

Owing to the heavy demand, our stock of this most desirable Fern, ready for immediate shipment, is getting low. In order to accommodate those who wish to make plantings later in the season, we will book orders now for delivery any time till July 1st. This will give florists who are now busy with their spring work an opportunity to secure their stock and have it delivered at a time when they can take care of it.

JOHN IRVINE CO.,

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EVERY FLORIST IN THE LAND

Should have a good bed of the New Giant Forcing

DAISY SNOW CREST

Introduced by Mr. H. A. Dreer.

We are Headquarters, and have 20,000 plants to offer at $1.50 per doz.; $10 per 100; $80 per 1000. It is easily and rapidly propagated by cuttings and division, and **NOW IS THE TIME** to get up a stock for fall planting. It is double the size of Snowflake and vastly superior in every way. Many of the blooms were larger than a silver dollar as we grew them last winter. It is a free and constant bloomer, requiring the same conditions as violets.

We also have a heavy stock of **Snowflake** that we will close out at $1.50 per 100; $12 per 1000, for the next three weeks.

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St. Louis.

Trade held up remarkably well this season, but is about wound up now. Roses are scarce, white is in demand, and sweet peas are a glut.

Ernest Zaun at Mt. Sinai cemetery was badly damaged by hail and the Michel Plant and Seed Co. had their hydrangeas badly cut up,

One of the attractions of the Mo. Botanical Garden just now is a blooming plant of Agave Salmiana. This species belongs to the americana group. The specimen was collected sixteen years ago by the late Dr. C. C. Parry in Mexico, and sent by him to Dr. Geo. Englemann, who presented it to the garden.

When it came into the posession of the garden it was a small plant, probably a sucker. When a few months ago it began to show signs of blooming it consisted of a fine rosette of about seventy leaves seven and one half feet in diameter. May 3 the flowering stem first showed itself above the upright leaves which precede flowering. To-day, June 30, the stem is thirteen and one half feet high. The panicle is six feet long, and about thirty inches in diameter.

Records of the daily growth of the stem have been kept, and show a variation of from less than an inch to more than six inches. Carefully kept records on this and other agaves that have bloomed at the garden seem to show that the state of the weather has no influence on this variation.

Strange to say, a small sucker has followed the example of the parent plant, and has thrown up a stem eighteen inches high. This sucker has made no true leaves, all being reduced to bracts.

J. C. DUFFEY.

Newport, R. I.

The rose and strawberry show of the Newport Horticultural Society on June 29-30 was a gratifying success. The displays of palms from J. S. Cowles, Andrew Meikle and Chas. D. Stark, as well as the general display by Robert Hunnick, were unusually fine. Hugh Williamson, Joseph Magee, Gibson Bros. and others received many prizes for roses, and Siebrecht & Wadley showed some fine ornamentals. From Shady Hill Nurseries, Woolson & Co. and Pitcher & Manda came extensive collections of hardy herbaceous plants.

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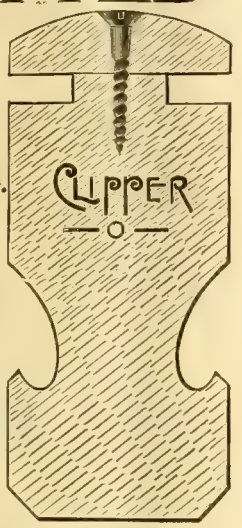
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JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Worcester, Mass.

Everything is looking fresh and green after our three days of rain and is growing like mad; we needed the rain sadly but it came just in time to spoil most of the outdoor hybrids.

Trade is a little slow but not as dull as might be expected; June weddings have helped us out a little; prices of course have dropped a peg.

The Horticultural Society's H. P. rose show was held June 23 and although the rain came down in torrents nobody complained. As a rule the roses were not quite up to the standard; this seems to be the case everywhere in this vicinity; the open winter and dry spring probably was the cause of such poor flowers.

For the best 12 blooms H. F. A. Lange took first and Joseph Brierly second; Baroness Rothschild, Merveille de Lyon and Ulrich Brunner stood out prominent in this class.

For best 6 blooms Joseph Brierly took first with nearly the same varieties he showed in his 12; D. E. Wilson second.

The stands of 38 blooms each made a very good showing as they were grouped so close that the defects in the individual blooms were not noticeable; Lange first, Brierly second.

The moss roses were very poor but one stand being shown by H. A. Jones. A great fault in the baskets was that the stuff was jammed in too close; the only loose arrangement was that of Lange, who captured first with a basket of Baroness and Merveille de Lyon with a bunch of Fisher Holmes on the handle.

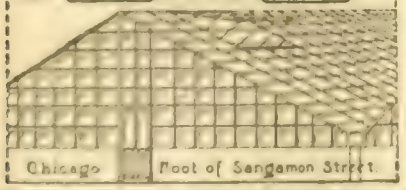
O. B. Hadwen occupied a table with a handsome arrangement of pink and white pæonias, and F. A. Blake, of Rochdale, made a splendid display of Dianthus barbatus, showing over 100 varieties without a duplicate. SEEDLING.

Montreal.

Business is quiet now. Most of the growers are busy getting ready for next winter; a large number of roses are being planted this year. The club picnic is to be held on July 28. The Horticultural Society will hold their annual exhibition in September in conjunction with the Provincial exhibition; $1,500 is offered in prizes and this will most likely bring out a good exhibit. J. B.

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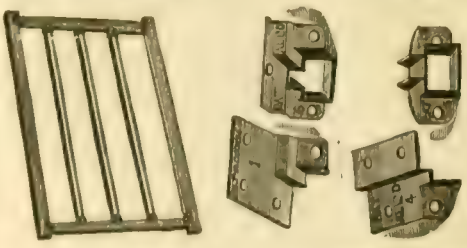
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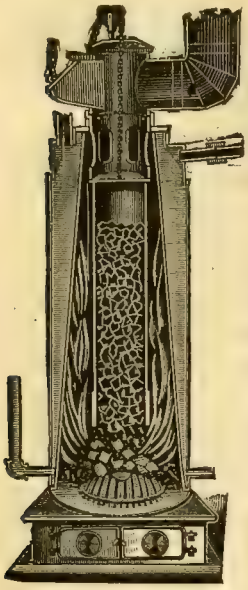
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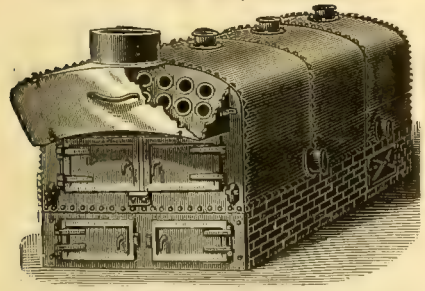
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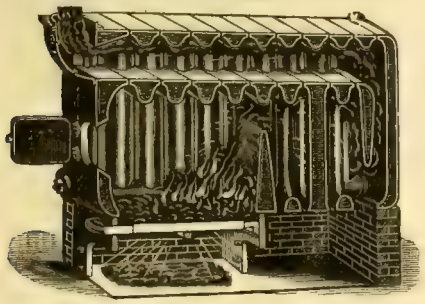


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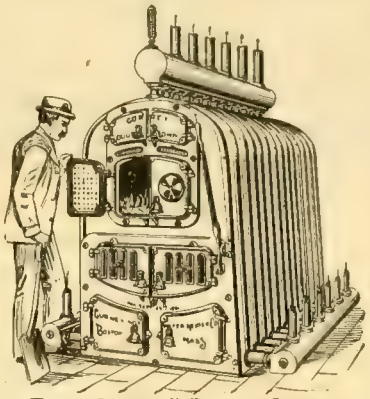
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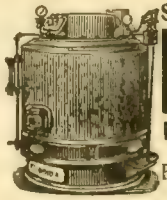
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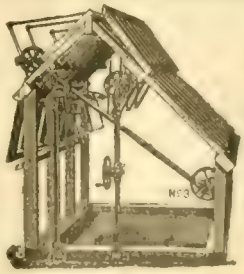
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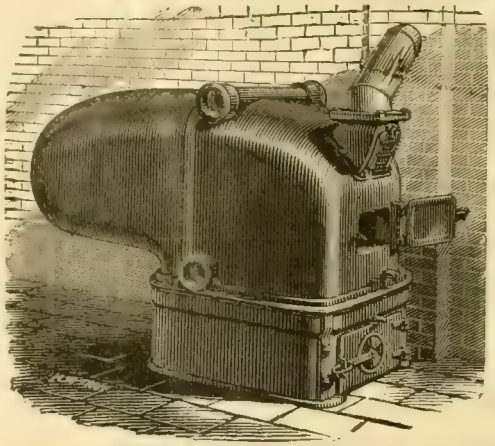
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THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VII. **CHICAGO AND NEW YORK, JULY 14, 1892.** **No. 215**

THE AMERICAN FLORIST

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The Eighth Annual Meeting

— OF THE —

SOCIETY OF AMERICAN FLORISTS

— WILL BE HELD AT —

WASHINGTON, D. C,

AUGUST 16, 17, 18 AND 19, 1892.

Members may remit the annual dues ($3 00) to the secretary or treasurer prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for 1892 will be sent by mail to those who remit in advance of the meeting.

Intending members can obtain any information wanted by addressing the secretary.

James Dean, Bay Ridge, N. Y., president; W. R. Smith, Washington, D. C., vice-president; Wm. J. Stewart, 67 Bromfield St., Boston, Mass., secretary; M. A. Hunt, Terre Haute, Ind., treasurer.

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IF YOU have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

Our Telephone.

"Hello, hello!"

"Is that Hotel Reynolds, Boston?"

"Yes, what do you wish?"

"We want to talk with Mr. Hugh Dickson, a very tall young man from Belfast, Ireland. Have you such a party stopping with you?"

"Yes, he is right here."

"Hello there, is that you Dickson? As they say to the actors, 'How do you like America?'"

"As the cat said to the cream pitcher, 'I'd like to stay here all the time.' But, to tell the truth, I haven't seen much of it yet, for my visits up to the present time have been confined to a few of the eastern cities. I was fortunate enough this time to be in Boston during the annual rose and strawberry exhibition of the Mass. Horticultural Society which naturally interested me very much."

"Well, how did you like the exhibition? Did it compare favorably with similar shows in England?"

"Well, the strawberries were very fine in appearance, but I really don't think they have as good flavor as ours. But the roses were what interested me most. Now, I must say I was greatly disappointed in this department of your show. In finish, color and size the blooms taken as a whole were very weak and would not at all compare with the English rose shows. This can to a certain extent be attributed to the very hot spell we had for the week before the show, but I fancy if the same attention was given to your outdoor roses that you give to your indoor ones you could greatly improve your flowers."

"What would you suggest?"

"Well, firstly I would be inclined to tickle the rose beds with a hoe, say 2 inches deep, before the hot summer suns begin, then mulch the beds with a good dressing of rotten cow manure, say 2 to 4 inches deep. On this I would spread the short grass of the lawns, which will prevent the weeds growing and give the bed a neater appearance and at the same time prevent the hot suns taking all the moisture out of your manure and soil. I also think that if the hose was applied freely in the cool of the evening you would get a better growth than you at present do and possibly a fall bloom. I always understood that you showed your roses here on very long stems. Now, I was very much disappointed in this too. I think we show our blooms on quite as long stems as you do and certainly in a neater way. We have a wire support to each bloom which keeps it setting erect and all of a uniform height in a row, the back row of the box of course being higher than the front. Then as to classification I think it would be a great improvement if you would admit hybrid teas and teas. Look what an improvement to the tone of a box a good Perle or Hoste would be when placed between two crimsons."

"But you must remember, Mr. Dickson, that these are not hardy here. Our great object is to encourage the raising and planting of hardy roses."

"Oh, yes, some of them are hardy. There is Gloire Lyonnaise, sent out by Guillot as a yellow hybrid perpetual. He made a mistake there as it is a creamy yellow hybrid tea. But it is perfectly hardy here and will give more blooms than any other rose of its color that I know of. It looks almost mildew proof. I saw a three year old plant in Philadelphia from which Dr. Huey cut this season already 150 blooms, and I believe he will cut another 150 before the season is out."

"We understand that at certain shows in this country Magna Charta has been ruled out of the hybrid perpetual class. How would you class Magna Charta?"

"We hold it as a hybrid perpetual."

"What stock do you bud your roses on?"

"For hybrid perpetuals we use Manetti and for teas the Dog Rose."

"What advantage do you claim for budded over own-root stock?"

"Immediate effect. The purchasing public gets from budded stock as much bloom in two years as will repay the whole outlay, whereas with own-root stock you must wait two years before the plant is any size. You must not confound roses properly budded low down on Manetti stock with the stuff budded high on the stem which is sent over here from Holland for auction sales. We exercise great care in the preparation of our stocks. First we cut the wood into lengths of about 12 inches and cut out all the eyes from the base up, leaving only three at the top to grow. These are then planted and after a 12 months' growth we lift them, cut off all the rootlets that may be up the stem, also cut back the roots at the base so that they will break away again and become bushy, and plant about four inches deep. Then when we come to bud we scrape out all the soil from around the roots and bud close down. The following spring, say in March, after the bud has started, we cut off the top of the stock and mould the plants up slightly. In this way we often get our roses not only with the roots of the stock but with own roots as well. If budded stock is planted deep you are liable and likely to have them doubly rooted. In addition to the hot suns which are against your roses in outdoor culture, I find you suffer a great deal more from insect scourges than we do."

"About your hybridizing; what are you doing and what are you aiming for?"

"Well, we know that if we can only strike a yellow tea of good substance and color it will be a ten strike for the American trade alone, so you will understand that this is one thing we are striving hard for. In our early trials we used

Gloire de Dijon considerably, but have found since that it is useless as a parent, for no matter what the other parent may be the Dijon blood is most manifest. It may interest you to know that the result of one cross between Dijon and Perle was a purplish red. In crossing two roses of sweetest fragrance we often in the progeny get a rose without a vestige of perfume."

"How do you account for this?"

"Don't know how to account for it and would like to meet the man who can."

"How do you like American Beauty over there?"

"Not at all. We kicked it out long ago. It lacks finish and is inclined to be off color. You must remember I am talking of roses grown out of doors only. We have never to my knowledge tried Beauty indoors. Our forcing of roses in Great Britain is not very extensive. On the Continent they can best us in this department, but that I account for by the bright weather they get as compared with us in winter. If you don't get sun to ripen wood you can't get flowers. Perle, Niphetos, Safrano, Mermet and Bride we grow extensively outdoors."

"What is your experience with the Waban?"

"Waban with us comes deformed as a rule. Indeed, the majority of its flowers are imperfect. Occasionally we get an undoubtedly fine flower and the color is very rich. If they would only all come as good as the plant from which it sported it would be a great acquisition. It is our experience that a sport is rarely equal to its parent. From this rule, however, I would exempt the Bride, which I consider about our best white tea. Nothing better could be desired for size, form and finish. No amateur or professional rose grower and exhibitor can afford to be without the Bride, as its great size, magnificent form and excellent finish add many points from a judicial point of view to an exhibition stand. Cusin with us is a very good rose, but Watteville beats it in every way. A large part of the roses in our cut flower markets come from the south of France. Compared with the flowers seen in your American shops they are miserable things, and they are all short stemmed. One point I will make before saying good bye. While the world runs we are bound to have both sexes, otherwise the world stops. Now, apply that to your flower trade. Wherever you find a girl of taste her chosen flower is the rose. And wherever you find nice girls there are fools of fellows, and the roses are sure to go whether the fellows can afford it or not."

"That's good philosophy. Will you make any exhibit at Chicago next year?"

"Yes, we sent over last February in compliance with Mr. Thorpe's request a lot of 1,200 roses, largely our own seedlings."

Notes From Boston.

A NEW LILY.—Mr. Jackson Dawson showed me a new lily he had growing and in bloom. It was a direct contribution from Formosa (if I remember aright). He had plants in pots that were done blooming, plants in an outdoor warm border where under a mulching they had lived over winter and were now in bloom, and thousands of seedlings of it in flats in the greenhouse. In style and habit it resembles Lilium japonicum, indeed, as soon as I saw the flowers I thought they were L. Brownii, for in shape, set, and color they much resembled it. The flowering plants were one to two feet high and well leaved to the ground. But the most remarkable thing, in my mind, about the lily, is its "quickness." The flats of seedlings were sown last January 12 and when I saw them June 9, just six months later, the seedlings were up as thick as it were possible for them to grow, and some of them were forming stems, and two or three of these had flower-buds on. These seedlings had never been pricked off, which was a pity, for had they been, and kept in active growth no doubt they would have been larger, and many more showing flowers, than what there were. Mr. Dawson tells me the seeds germinated in less than a fortnight. This will make it an exceedingly valuable lily for florists to handle, especially those in the plant trade, as they can get up a stock of it so quick. Seed of most kinds of lilies will lie dormant in the ground for a year; some come up in three to six months. But the seeds of L. tenuifolium, L. pulchellum, and L. callosum are the only ones I have had to come up as a crop in less than a fortnight; and while I have had lots of them to bloom the second year from seed I never managed to bloom any of them the first year from seed. Now we have carnations that come into bloom in four months from the time we sow the seed; roses that bloom the first year from seed sowing (a fact, I have them now in bloom from seed sown first of last March), and lilies that bloom in six months from seed, and I believe the lily case is the most wonderful of the three.

GLOXINIAS.—Prof. Sargent had the finest plants I ever saw; many of them were in 10-inch pots, had a mass of leaves 2 feet across, and between 100 and 150 flowers on a plant. They occupied a small span-roofed house altogether, and were kept moderately warm, shaded from sunshine, yet near the light, and in a moist atmosphere. But care was taken not to wet the foliage or flowers. A lot of this year's seedlings were planted out on benches in another span-roofed pit which is used for growing lettuces in in winter; these seedlings will give late flowers, beginning to bloom in July.

ACHIMENES.—These had recently been potted up and were being started in a warm, small greenhouse. He got them from Dammann, of Italy, who has a reputation for fine varieties. But I don't think we need go so far to get choice achimenes.

CANNAS were grown in considerable quantity as pot plants for greenhouse decoration, and they looked very cheerful indeed skirting the sombre palms and tropical greenery.

AMARYLLISES were grown in considerable numbers for conservatory decoration rather than for cut flowers. Now this is a class of plants that must become more popular for they have sterling merit. They are of the easiest possible cultivation. With greenhouse aid we can have them from Christmas till midsummer and without any greenhouse at all we can have them from April till August. In fact Johnsoni, aulica and formosissima are in bloom in pots set outside in several of the little gardens by the roadside in Glen Cove to-day, and their owners have only a cellar and a window to winter them in. As I was passing the other day, Mrs. Edgar Wright, an old lady, called me in to ask me the name of a formosissima she had in bloom. "I bought the first bulb of it from Mr. Allen at Queens, twenty years ago," she said, "and it has increased as you see and comes up and blooms every year. And we think it is perfectly lovely, the color is so bright." Cut the flowers as soon as they open and before the anthers burst, and they will last and keep their color for two to three days. Henry Siebrecht told me that one of their customers, one of Gotham's 400, makes a point of having when procurable at all, a centerpiece of brilliant amaryllises for her table, when she gives a dinner party.

TUBEROUS ROOTED BEGONIAS.—About a dozen years ago Prof. Sargent's garden was famous for these; he used to plant them out in beds, especially in a border against a north facing wall behind a greenhouse. He still sticks to these begonias, I see, but has changed his summer tactics, and instead of growing them out of doors, he grows them in pots in the greenhouse. Their blossoms were immense.

SINGLE PÆONIES.—He has a large number of the various kinds of double pæonies, and singles, as tenuifolia and albiflora, all planted out in the open garden, but when I told him in point of loveliness he had nothing to compare with the big flowering single beauties of Japan, he resolved that he must have them too and enquired "where can I get them?" If you florists who have these nice things in stock won't advertise them, blame your own short-sightedness, if you cannot sell them.

IMANTOPHYLLUMS.—He is great on these and wishes he had more of them. They are easily grown, have fine foliage the year round, are most always in bloom, and easily kept clean. "True," I remarked, "but if your primary object was cut flowers would you grow them in such quantity?" "No I don't know that I would," he answered, "we grow them for conservatory decoration alone and for this purpose find them indispensable." The flowers do for cutting too, very well, but I don't think they would bear flowers enough for this purpose, in proportion to the room the plant would occupy, to pay.

THE HYBRID STREPTOCARPUSES were in nice growth and bloom, and very pretty little pot plants they make. When well taken care of from their youth up they are very pretty, and full of lilac and purple flowers, but I question if we can ever handle them with profit as general florist plants, they need too much attention to raise them. As amateurs' plants, however, and as a specialty with certain florists they are perfect gems.

THE TRICOLOR BEECH.—A vase of well leaved little sprays of this was exhibited at the rhododendron show at Boston. In the gaslight the variegated leaves showed up to fine advantage, and it occured to me what a capital thing it would make for indoor decorations with cut flowers. This tricolor-leaved beech is something new and not at all plentiful, and there is no large plant of it in the country, not even a large bush. It is a a purple-leaved European beech whose leaves are also freely variegated with a bright pink or red color; in fact the two colors—dark purple and pink, are much the same as we find in a well-colored Dracæna terminalis. The tricolored beech is perfectly hardy and apparently as free a grower as is the purple or green leaved forms, at least it so acts with us.

WM. FALCONER.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.



VIEW IN THE RHODODENDRON TENT AT MR. F. B. HAYES', LEXINGTON, MASS.

A Few Plants Worthy of Notice, Grown at U. S. Botanic Garden, Washington, and in Flower at Present.

MONARDA KALMIANA, with its bright scarlet flowers, solitary or twins, supported by a leafy bract, the leaflets being of a pale green color tinted with red. Flowering from June to September, this is truly a very handsome hardy herbaceous plant, well worthy of being more generally cultivated. It is easy to propagate by division of roots in fall; likes good, rich soil, but does not do well in the shade. Its bright red color and abundance of flowers always attract much attention. It does admirably with us and is admired by many visitors.

ABUTILON ECLIPSE deserves more attention than is generally given to it. It is really a good thing for bedding, with its beautiful variegated leaves of bright yellow and green. It is more upright and bushy in growth than the type, vexillarium pictum. When planted out it fills quite a space, at least 1½ feet square, is easily propagated and roots freely from young wood started in the house in early spring. Well worthy of cultivation.

CAMPSIDIUM FILICIFOLIUM is a most excellent thing for trellises during the summer and is a rapid grower when planted in good soil with plenty of water. Its beautiful fern-like foliage and handsome flowers make it very attractive. It does well on the iron fence in front of Mr. Smith's office.

ERYTHRINAS.—Growing at the Botanic Garden are several varieties of erythrina, the coral tree. The finest of them all is E. crista-galli, with its bright deep scarlet spikes of bloom, some of them being two feet long, and a single plant having as many as 20 spikes at a time. It attracts much attention.

E. LAURIFOLIA has much larger flowers but is not so bright as the former variety. But it is a far stronger grower.

E. HERBACEA.—Flowers smaller, spikes not so long. Very deep scarlet, much darker than the other varieties. An excellent thing.

E. HENDERSONII does handsomely with us, producing a quantity of bright scarlet flowers. Its shoots are not as strong as crista-galli, nor are its spikes of flowers so long, but it flowers when quite small. Very attractive.

E. MACROPHYLLA has not flowered with us. Neither has E. Corallodendron, which has larger leaves than any other and seemingly requires a dry sandy place.

THEY ARE all worthy of cultivation, make fine plants and when in flower are admired by every one visiting the gardens. They only need slight protection in winter with us. By cutting off the flower stems pretty well back after flowering they are induced to make another growth, which will produce flowers. This may be continued from June until frost, and the plants will continue in bloom all the season. They flower at a time when bloom is scarce, making them the more valuable. I think it would pay the florists to grow this beautiful flowering plant. They all like a strong loamy soil and an abundance of water when not at rest and when exposed to bright sunlight. They are readily propagated by taking off the young shoots with a heel in early spring and placing them in propagating bed with good bottom heat. These cuttings will flower the same fall if treated properly.

POLYGALA LUTEA.—This wonderfully interesting little plant flowers with us June 1, producing a single stalk of bright yellow flowers. The interesting feature of it is the little yellow florets succeed each other on the same stalk and continue doing so for three months. It is quite a little curiosity.

C. LESLIE REYNOLDS.

Notes and Comments.

Some fine plants of Adiantum cuneatum seen recently gave an idea in treatment not usually followed. Instead of the usual loam and peat mixture they were potted in ordinary rose soil with plenty of manure. After they were growing vigorously they received a weekly dose of liquid manure. This sounds a terribly unorthodox mode of treatment, but it is an undoubted success; the fronds were superb in color and development. The plants were in pots with abundant drainage.

Finely colored Pandanus utilis were noted potted in the usual rose soil; they were making fine growth.

One of our retailing friends was a little astonished this season when asked for a plant called "The Four Seasons." However, he recovered sufficiently to sell his customer a hydrangea, that being the

article required. Can not tell who is responsible for this absurd title; hydrangea seems simple enough, but the other name crops up now and then, so it is well to bear it in mind, together with Fish Bone Geranium, Calico Bush, and such choice specimens. It is supposed—with a liberal amount of imagination—that the name of Four Seasons is applied to the hydrangea with reference to the varying colors of the bloom.

By the way, this has been a great year for hydrangeas; the blooms have kept perfect for such a length of time and the sales have been very large. Otaksa always leads for forcing, but hortensis and paniculata have sold very largely for garden and cemetery use.

Some good gloxinias are to be seen now; they make an attraction in the store windows when decorative flowers are scarce. They are admirable for small conservatories where it is desirable to have some floral display during the summer months, and may be used effectively in various decorations.

The quantity of larkspur, foxgloves, Canterbury bells and spiræas innumerable to be seen around New York this year gives one an impression that hardy plants are being very rapidly popularized. How largely these may be grown must be decided by each individual, but retailers will find some of it very convenient for cutting, apart from the sale of plants. Naturally, such flowers only bring a small price when sent into the market, as their chief use is simply in decorating the stores, but a local retailer may often find use for them when it would not pay to send the flowers into the market.

Among shrubs tried for forcing last winter was a red flowered cornus, but it did not make any great success. The flowers were not really so showy as the ordinary wild dogwood.

Sanseviera Zeylanica, the Bowstring Hemp, is seen in bedding or large vases; the singularly barred leaves are unusual in appearance and generally admired. It is a good plant for an ornamental group and readily increased by suckers.

Grevillea robusta is noted this season in large quantities, being prized for its graceful foliage in large beds, or as single specimens. It appears eminently satisfactory in bedding; it has been used largely by amateurs as well as the trade.

EMILY LOUISE TAPLIN.

Out of Town Commencement Work.

Out of town florists are rarely called upon to do large class decorations, but they find a good deal of work in supplying commencement gifts. This is rarely high-priced work, but it is sufficiently remunerative to pay for taste and workmanship. There is an occasional call for some design, harp, lyre or horse-shoe being the usual thing, but the general preference is for baskets or bouquets. Baskets always lead, however, and as a rule the purchaser wants an attractive arrangement at a small figure.

Naturally, the new and expensive styles in gilt or celluloid are useless for this class of trade, but there are plenty of attractive shapes in willow or braid, the most desirable being flaring baskets with a high handle, sometimes called Marie Antoinette baskets. There are more orders for those costing from $3 to $5 than for anything higher, though occasionally some reckless admirer will indulge in a $10 basket.

We find a strong demand for sweet peas in these baskets or bouquets, and the buyers usually like a bit of ribbon either on the handle or to tie the card in place; it doesn't cost much, and looks more expensive. It may seem unnecessary to name the ribbon, but there are localities where it is still a comparatively novel idea. When any preference is expressed as regards color it is almost invariably for pink; pink roses, pink carnations and pink sweet peas are frequently the favorites.

Though in many localities people have not got beyond a desire for stiff, round bouquets, sometimes with the added iniquity of a paper frill, we find a fancy for looser, long bunches, tied with a ribbon, and having a few flowers drooping below the stems. This is a favored commencement bouquet, and a very artistic one. The main points to be be aimed at in such work is a rather showy effectiveness, for the presentation is in public, and it is human nature to desire as good a show as possible. Greenhouse flowers are not over plentiful at midsummer, and the florist who grows good outdoor stuff will find it very useful at this time. Sweet peas, corn flowers, various pyrethrums, iberis, and other flowers of that class are very convenient for filling in, though it will be noticed that most people want a fair show of roses in their baskets. A hamper filled with roses, the lid fastened back by a ribbon-tied nosegay, takes well for a commencement gift, but naturally this would not be filled as cheaply as the average style demanded. Moss roses will be found useful in this work, and they should be plentiful.

Among greenhouse plants we find the stephanotis very useful at this season on a place where there is much floral work; it is a flower rarely seen at the wholesaler's, but it pays a man who grows for his own use. Its greatest fault is the harbor it affords for mealy bug, but the plant can be trained to take up little room and its profusion of flowers makes it very useful. Another summer blooming greenhouse shrub which we find very useful is Clerodendron Balfourianum; its clusters of white and scarlet flowers are freely produced and lasting. They are always admired when put in a mixture of loose flowers, and are not to be despised in a basket.

E. L. T.

The Leaf Blight of the Day Lily.

During all of last year the various species of funkia, of which there are many now in cultivation, for the "Day Lilies" are popular foliage and border plants, were sadly troubled with a blight that in many instances was so bad that whole beds and rows of these plants were rendered unsightly and worthless. The blight, while quite widespread upon the species, whether the broad or the narrow leaved sorts, was most abundant and destructive upon the variegated sorts and particularly the Funkia undulata var. variegata. It may be said in passing that the variegated varieties of plants generally are the most susceptible to the attacks of fungi. This is a point that may come to the surface again as the present subject is further treated.

The leaf as a rule is attacked near its middle. The texture of the foliage of the day lilies is particularly acceptable for the inroads from fungi because it is soft. Aside from the skin and veins the leaf is made up of larger cells placed loosely together and of a succulent nature. Soon after the fungus has become seated, which means that its fine threads have ramified in the substance of the leaf, the spot attacked takes on a brown appearance. Owing to the nature of the leaf, and particularly the arrangement of the veins, the diseased spot soon becomes a place with the pulp of the leaf wanting and crossed lengthwise by threads of the veins. In other words the leaves are with their centers reduced to shreds. Such foliage can neither do the ordinary work or present the healthy appearance of unaffected leaves.

It is impossible to show the microscopic characteristics of the fungus in a photographic picture. The spores are produced in great numbers in patches upon the surface of the affected parts. By actual test it has been determined that they germinate with ease in water and in this way the blight is spread rapidly from one place to another. It has been observed that when one susceptible variety grows near another less so, the former has a tendency to affect the latter. No one plant grows to itself alone and in no more emphatic manner can this fact of influence be brought out than with the fungous diseases of plants. It goes without further saying that any plant already ruined by the blight is not worthy of a place in the garden; at least all its foliage should be cut away and burned.

In case of the funkias, gardeners would do well to take note of the kinds that are least injured and should they be equal in other respects to the less fortunate sorts, to give their garden space to them.

As to remedies but little thus far can be said because experiments have not been made. From the nature of the fungus there is little room for doubt that if taken early in the season the blight could be kept in check. There is nothing that can be recommended with greater hope of success than the ammonical compound of copper carbonate. This has proved of great value in the vineyard and the orchard and there is no reason why it should not be a strong weapon in the hands of the gardener.

In conclusion let those who have sickly day lilies remember the trouble is a fungus, that it favors the variegated sorts, that it spreads rapidly by means of its spores. Grow the least susceptible sorts and another year try spraying with a fungicide. The burning now of the blighted parts is a wise act.

BYRON D. HALSTED.

Rutgers College, June 25, '92.

Boston.

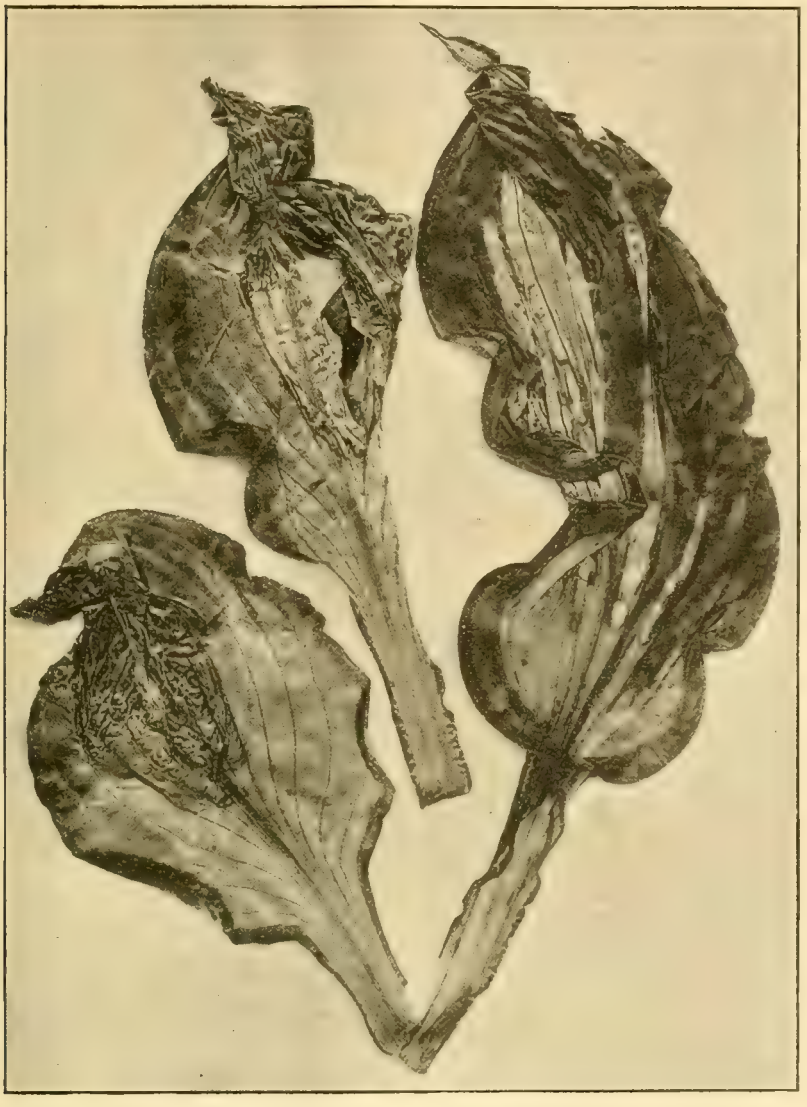
There is nothing to be said about the cut flower trade at present excepting that it is as dead as it can be. There is the usual summer assortment to be seen in the florists' windows, nothing of special note, and no well established price on anything. Frequent rains and cool pleasant weather have had their effect on all out door bloom and verdure and the garden, lawn and landscape are in their loveliest form.

July 2 was prize day for delphiniums at Horticultural Hall. The display of this popular and showy flower was good, first prize going to J. L. Gardner.

Among the choice things shown were Dipladenias amabilis, profusa and Boliviensis from Geo. McWilliam, and Thunia Veitchii from J. L. Gardner, the latter being honored with a certificate of merit.

The collection of H. P. roses from J. S. Fay was as usual of a high grade, and the display of hardy herbaceous plants from N. T. Kidder, Shady Hill Nursery and J. W. Manning, interesting and instructive.

The attendance at the exhibition on July 9 was quite large. It was prize day for Iris Kæmpferi. J. L. Gardner was awarded first for 15 varieties and E.



LEAF BLIGHT OF THE DAY LILY.

Sheppard & Sons first for 6 varieties. The finest bloom in the hall was a bloom of Alexandra in Sheppard's collection. Rea Bros. display of hardy herbaceous perennials was particularly good.

At a recent meeting of the Society it was voted that unsolicited special prizes must be accompanied by the amount offered or its equivalent, and in order that such prizes may appear in the regular schedule, that it is desirable to have them notified to the committee on establishing prizes on or before the first of November in each year.

When the members of the Gardeners' and Florists' Club began to gather at Horticultural Hall for the regular July meeting they were surprised to find the big doors securely locked, and after waiting in vain for the derelict janitor they repaired to the Tremont House where the famous old room 200, which has seen so many lively meetings, was secured for the evening. The time was occupied by reports from various special committees, that on the annual excursion provoking the most discussion. The committee was overwhelmingly sustained in all its arrangements and the trip will take place as before announced on July 28, and the location selected is Lake Walden.

The committee on revision of by-laws reported quite a number of changes, the principal one being the change of the time of the annual election from September to November and making the fiscal year begin with January 1.

The committee on bowling announced that a team had been selected to go to Washington to represent the club at the tournament there next August, and asked for funds to defray expenses of practice games, and their request was promptly granted.

Resolutions of sympathy with Wm. Edgar on the death of his wife were read, and the new charter just received from the Secretary of State was displayed. The last business was an overhauling of the delinquent list, resulting in the suspension of twenty five members for non payment of dues.

John Reed of Everett, Mass. is reported as having assigned.

Visitors in town are numerous. This week's list includes W. F. Sheridan, R. B. Young, C. B. Weathered, New York; W. F. Gude, Washington, Paul Berkowitz, Phila.; and J. H. Brazendale, London, England.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

New York.

There was a large attendance at the meeting of the Florists' Club last Monday evening. The report of the committee on transportation to Washington was accepted. The question of permanent club room was indefinitely postponed and the committee discharged.

Thomas Griffin exhibited magnificent blooms of tuberous begonias and described his method of treatment for outdoor culture. He invited the club to visit his place in a body, and the invitation was accepted.

Five applicants for membership in the club were admitted.

A party of gentlemen prominent in horticulture and botany were entertained on July 6 by Mr. Chas. A. Dana, of the New York *Sun*. They were received by their host at Dosoris, Mr. Dana's well known country residence. They spent a delightful day. The gardens, which are remarkable for specimen trees, shrubs and hardy plants, are in a state of perfection at this season. Among the guests present at luncheon were W. R. Smith and Jno. Saul, of Washington; Samuel Parsons and Samuel Parsons, Jr., of Flushing; Judge Brown, president of Torrey Botanical Club; W. A. Stiles, of *Garden and Forest*; Wm. Falconer, Dr. Hexamer, Chas. Henderson, and Mr. Trumpy.

The auctions are now over for the season. They have been extremely satisfactory, both for the high class of stuff sent in and for the excellent prices realized. There was a small sale of orchids last week, consisting chiefly of fine lælias, freshly imported; some of the pieces were very large. Some of the best pieces went to a Boston collection.

The flower trade can hardly be considered at all, as we have now entered on the dullest part of the dead season. A few stray orders for funerals or steamers make the bulk of the retail trade. A fair amount of stuff is coming in; there is an absolute glut of sweet peas, even the Greeks being over-loaded. Some selected roses, Brides or La France, go up to $4 a 100, but the average is much lower. Ernst Asmus and William H. Siebrecht are still sending in lily of the valley. Carnations are becoming poor. None of the retailers can afford to keep much stock on hand, and the stores generally have a very deserted appearance.

There was a meeting of the creditors of C. W. Matheson this week, but no definite arrangements were concluded. The assets seem practically nothing, excepting a considerable amount in uncollected bills.

The committee on transportation, of the florist club, met on the 11th to make further arrangements for the convention. They expect to give a warm welcome to their Boston brothers, New York and Boston being again received further along by the Philadelphia club.

Chas. D. Ball, of Holmesburg, was a recent transient visitor here.

The greenhouses of the James Taplin place at Maywood are being rebuilt and altered.

Vivid blue larkspur is to be noted in quantity; it is very handsome. Wild cattails from the Jersey meadows are not confined to the street fakirs, but are seen in most of the florists'. They form a change in decoration at least. A good many nice little araucarias are to be seen; they are very largely used in decorating.

Charles Henderson, of Peter Henderson & Co., is about to build a fine residence at East Hackensack, N. J. In addition to the residence the place will also com-

prise greenhouses and experimental grounds for the purpose of testing plants and seeds, as the business seems to be outgrowing the space at command in Jersey City.

Rudolph Asmus has been suffering in health of late, being threatened with a return of his old enemy, the rheumatism.

A recent design, made for a special order by a New York florist, was a shirt which might have fitted Grover Cleveland. It was filled with immortelles and Cape flowers, the body and sleeves being white, the collar, cuffs and bosom pink. It was to be shipped to San Francisco, where it was intended to grace the opening of a new firm. The florist intrusted with this work of art viewed it with extreme sorrow; it was calculated to be rather a trial to a firm noted for tasteful work, even in the dead season, when orders are few.

Baltimore.

Good buds continue very scarce, particularly white ones. The inferior stuff is all bought up at some price though, for the store man just now has to take what he can get for hurried orders and be thankful. For orders that give him a day or two to prepare he can usually hunt up good stuff somewhere but he is not given to saying where, so the scribe can only guess in a vague way that it is "up north". Perhaps some of our new men who are busy putting up houses can solve the problem of producing as good stuff all the year around as can be bought elsewhere, but up to date we only seem to hit it spasmodically. It may be the weather after all and not the skill of the grower, but more likely the boys are all busy getting benches and plants ready for the next winter's crop and the plants that stand over are temporarily neglected; or possibly we copy too slavishly the methods of more northerly latitudes, though this seems less likely. Whatever the cause, though no buds are strictly A 1, yet those from the north are better in size and color than any that can be had in the open market here. Almost every one seems to have a reason for it, and, if all would turn out at the next club meeting and discuss the question thoroughly, the true cause might be discovered and avoided; no harm to try any way.

Mr. Robt. L. Graham is putting in two houses of chrysanthemums on benches, principally the two varieties Domination and L. Canning. The advantages he claims are, freedom from danger of frosts, and, not being checked by lifting from the open ground after grown, much more perfect flowers and foliage at one half the cost of growing in pots. He says he is waking up to the fact that there is money in cut chrysanthemums if either early or late, and he can keep those in houses back much later than if grown outside, besides being able to fire a little when pushed by severe frost.

Society work is very light. At the wedding of the daughter of a leading banker, Mr. Stein, the decorations were rather elaborate. The stairway was trimmed very neatly by covering the balusters with palmetto leaves, and wreathing the hand rail in smilax. Smilax was used freely in the doorways of the parlors, the portieres being removed and replaced by it. The mirrors were all draped with it too except one, a pier-glass in front of which the bride received, which was draped with asparagus. The walls of the large dining room, seating 100 guests, were nearly covered with palmetto leaves arranged in fans and clusters on every available space. The ceiling was festooned with wreathing, along the lines of which electric lights were fastened, and, when ready for the wedding party, the whole room presented a very pretty and bower like effect.

Funeral work is the stand-by and almost the only hope in the way of trade. Several stores are closed; Tishinger of Madison avenue and Barron of the same street permanently; Dentry of Linden avenue till September. A Mr. Klein has taken the store formerly occupied by Barron and proposes to open August 1st as landscape gardener and florist, with a line of fine imported goods.

Now comes the time when the grower debates within himself of the demand that will exist for his specialties, whatever they may be, "when the swallows homeward fly" and society follows them. Will the market be short of dark or of light buds? Will there be the same scarcity of good smilax as last winter or will everybody get at it and reproduce the gluts of preceding years? How about Harrisii? Scarce last year to be sure, but so plenty year before that about 1,000 were left unpacked in the Exchange at Easter. What of carnations and what of 100 other things that depend so much on the whims and caprices of buyers, and upon the profitable sale of which the bank account and happiness of the grower depend so utterly?

As a remedy for alternate gluts and scarcity it has been suggested by one of the craft that each grower adopt one or two plants and grow nothing else, so that one man would grow the carnation, another roses, another bouvardia, and so on all through the list, having more places devoted to roses than anything else, and next having carnations, decreasing the amount of glass used for any one thing until men with only one house could be put at myosotis or mignonette.

It is a plausible scheme, but it is to be feared there would be some discord when the crops each was expected to grow were assigned to him, and if they were not assigned by some central authority, as committee or club, it is hard to see what benefit would result, as too many devoting themselves to one crop and neglecting all others would work more disaster to themselves and the trade than could possibly result from growing mixed crops. At some future time when the trade is as well organized as some other trades a scheme like this may be possible, but it does not seem so now.

One thing, however, is possible wherever there is a club or central organization, and that is for such a body to keep a list of the members with the number of plants of each variety of rose, of carnations, smilax, callas, violets, Harrisii, etc. he intends growing for the coming season. To be sure a list like that would be most useful to the last man on it, for, knowing the market and the ability of the men preceding him on the list to grow successfully the crops selected by them, he could form a much closer estimate of the supply and demand than is anyways possible at present.

There is very little doing in cut flowers, and fortunately, for there is no great amount of flowers to do anything with. The Exchange has been cleaned up by noon almost every day. Roses are coming in slightly better than last week, but prices are very low. MACK.

If you expect to attend the Washington convention of the S. A. F. and have not yet sent us your photograph for use in our convention supplement, please forward same now.

Washington.

In strolling through the conservatory at the Executive Mansion, where Mr. Henry Pfister, the gardener in charge, has everything in perfect order, I found Mr. P. directing the potting of a few anthuriums. He cordially invited me to take a look through the houses. He is justly proud of his orchids, which are in very good shape. Noticeable among them were two very fine specimens of Vanda teres Andersonii. The larger of the two was in a 12-inch basket and had 25 spikes of bloom, some spikes bearing 6 and 8 flowers. Neither of the plants were over three feet high. The flowers were large, rich and deep in color. I noticed a small but very healthy plant of Dendrobium Phalænopsis Schroderii with several beautiful flowers on it. I am inclined to think that this is the only plant in the city and am sure it is the first time this dendrobium has been flowered in the District of Columbia. Cypripedium Io with its beautiful dark flower attracted my attention, also a fine plant of C. caudatum with three large beautiful flowers of its peculiar kind, its string-like petals being 20 inches or more long. I noticed a dozen or more Ficus elastica with single stems 16 feet high, furnished to the pots with leaves. I was told that they filled shallow corners in the state dining room (where palms and such things could not be used) producing a good effect. They have a sago palm said to be the oldest under cultivation. It is 200 years or more old, trunk about 8 feet high and 14 inches in diameter at base. It flowers every second year, making leaves the off year.

The grapery hanging with fruit just turning looked very tempting. The bunches were not extra large but well distributed over the entire vine. The vines are old, having been planted during Gen. Grant's term at the White House, and the bed has never been renewed. I saw many other plants worthy of notice, all showing a high state of cultivation and doing credit to Mr. Pfister.

Everything is very quiet among the florists. They all seem to be taking advantage of the lull and doing the necessary repairs to their houses and getting everything in shape for fall and winter trade.

Mr. Wm. R. Smith, Sup't Botanical Garden, is spending a few days about New York. C. LESLIE REYNOLDS.

Philadelphia.

The July meeting of the Florists' Club was well attended. Quite a number of new faces were seen while some of the regulars were conspicuous by their absence.

The membership of the club is rapidly increasing. Seven names were placed in nomination for election at the August meeting, while the following gentlemen proposed at the June meeting were elected: George Carpenter, Oliver J. Poppy, John Culp, James McClane, of Phila., and Geo. A. Strochlein, of Riverton, N. J.

The principal business of the meeting was hearing and discussing the reports of committees in relation to the convention. Mr. Westcott of the committee on transportation reported that his committee had made very favorable terms with the Pennsylvania company, having obtained a round trip ticket good for ten days for $4. The company had also been very liberal in other respects, of which the committee would have more to say later on. Mr. Ball of the committee on hotel

accommodations reported having made good terms with the "Corcoran," which he described as first class in every respect. After considerable discussion this hotel was made the headquarters of the club.

Richard Heron and George Craig were appointed a committee on decoration, their business being to see that the special train carrying the delegates shall be decorated as befits the occasion and we have no doubt but that it will be made most attractive, both within and without.

The old committee on essays and publication, Messrs. Lonsdale, Bearn and Fancourt, is no more. This committee has stood without change since its appointment shortly after the organization of the club. At their urgent request they were discharged and Robert Kift, Joseph Heacock and A. B. Cartledge were appointed in their stead.

Wm. F. Gude and J. Grainer, of Washington were present. Mr. Gude was called on and made a few remarks in which he expressed much pleasure at being present and extended a general invitation to all present to come to Washington. He assured them that the boys there would do all they could to give them a good time.

Wm. E. Meehan, son of Thos. Meehan, who was at one time engaged in the commission cut flower business in this city, but is now connected with the *Public Ledger*, has gone with the Peary relief party to North Greenland, partly in the interest of the paper and as the botanist of the expedition. Mr. Meehan was always fond of adventure and will no doubt have a very exciting time, as well as add considerable to his botanical knowledge. His collection of specimens will no doubt be well worth seeing.

We will not say anything about business except to mention that white roses are very scarce and so small they are scarcely seen when found; valley also requires hunting up, it being in demand at $6.

David Cliffe, of Germantown, is building six new greenhouses. Four will be 18x121 each and the others 18x76 each, a total of 26,700 square feet of glass. A new office building will also be erected. This will be 18 feet square with bulk windows. On the front will be a show room 72 feet in length, for the display of palms, orchids and tropical plants. Work has already been commenced and the new structures will be completed in about six weeks. K.

Cincinnati.

The monthly meeting of the Cin. Florist Society was called to order July 9 by temporary chairman, R. J. Murphy. Several applicants were elected as members. This meeting was the best we have had for several months and shows that the interest is still alive. Owing to indisposition we were unable to have our worthy president with us.

Two weeks ago the Almighty Ruler of the Universe saw fit to remove from among us Bro. G. F. Brunner of Price Hill. His death was very sudden, heart trouble being the cause. I have been unable to procure further particulars at this writing.

Chas. Jones, a brother florist of Newport, Ky., mourns the loss of his son Frank, who will be buried tomorrow afternoon. He was a young man of good habits and the main help of his father in carrying on the business. These are with one exception the only deaths that have occurred among the florists in the last two years.

Mr. Albert McCullough has just returned from his trip abroad, and at our next meeting we hope to be favored with an interesting talk from him concerning the old country.

Mr. F. T. McFadden, who spends much of his time in New York, is at home at Rosebank.

Since sending out the advance premium list of the Floral Exhibition (which will be held the 2nd week in Nov.), there has been a special list printed, which contains $500 additional premiums, which are offered for the best group of cannas, 50 plants; the best dining room decorations; the best collection of not less than twenty five plants cyclamen; and best fifteen varieties of begonias. Also five cups, value not less than $25 each, given by several prominent ladies of Cin. These special cup prizes for seedlings are announced to take the place of classes 23, 24, 25 and 26 of the advance premium list. The 5th cup is to be given for the best bronze variety. Unusual interest is being manifested in this exhibition, and we propose to give the grandest display ever seen in the west.

Trade in our city, like our sister cities, is very quiet. Stocks in cut flowers are very poor at best, but our growers are all busy replanting and their young plants look unusually fine.

J. A. Peterson is building several fine houses for the growing of cut flowers.

Quite a number of our florists will attend the Washington meeting. We should also like to see a meeting of the different Florists' Clubs of the United States and Dominion called for the purpose of comparing notes and getting pointers as to the best mode of conducting Florists' Societies. E. G. GILLETT, Sec'y.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

H. AUGUSTINE, Normal, Ill., president; Z. K. JEWETT, Sparta, Wis., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A. WHITNEY, Franklin Grove, Ill., treasurer. The Eighteenth annual meeting at Chicago, June, 1893.

The Street Trees of Washington.

To no man does the city of Washington owe a greater debt of gratitude than to W. R. Smith. Washington without her street trees would be almost uninhabitable in summer and those trees should never be mentioned without in some way coupling with them the name of the man who is so largely responsible for their existence. Mr. Smith is justly proud of them now and never tires of showing and talking about them. They are his monuments, he says.

Speaking of Populus Græca, which he highly recommends as one of the nicest trees for narrow streets if kept severely trimmed, he tells a good joke at his own expense. He bought this tree some years ago as a botanical curiosity. The name Græca had a pleasant flavor of antiquity, and with his natural enthusiasm for ancient as well as modern, he felt particularly interested in this instance as he reflected that this tree was doubtless a representative of ancient Grecian forestry. He planted it on the banks of the old canal and was delighted to find it a neat, ornate tree, its only fault being a tendency to sucker. Later on when about to plant trees for the Parking Commission he decided to recommend using some of this populus. In order to be able to talk intelligently and eloquently on its history he hunted through Sibthorp's Flora Græca but found that there is no poplar a native of Greece. After further investigation his veneration received a severe shock on ascertaining that the tree received its name, Græca, from having been found wild in the vicinity of Athens, Ills.

Mr. Smith and Mr. Saunders are both enthusiastic lovers of the oak, the American oaks especially. Where triangles occur at the junction of streets the spaces are frequently planted with these oaks



H. AUGUSTINE, PRES. AM. ASS'N OF NURSERYMEN.

and they do finely, but Mr. Smith asserts that few if any oaks are fit for curbstone trees.

The English sycamore maple has done better this season in Washington than it has done for years, doubtless on account of the cool spring. It is short lived here but in Fryeburg it is said to live 400 years.

Paulownia imperialis is one of the most beautiful of spring flowering trees in Washington. For more northerly localities Mr. Smith recommends raising it from seed, growing it in pots the first season, storing it through the winter, and then planting it out for subtropical effect the second year.

Cupressus Lawsoniana has suffered severely in Washington during the past winter, many specimens as much as ten years of age having been killed outright. The winter has been a very severe one on evergreens generally, but Mr. Smith's theory is that such barely hardy species are less likely to get winter killed when small than they are when they get well established and have come to their period of most vigorous growth, the new wood being then formed too rapidly to ripen up well.

Mr. Smith is not a profane man by any means, but he comes very close to it when he sees any of his pet trees chewed up by horses. Fortunately the police authorities are in hearty sympathy with him and do what they can to appease his wrath and prevent a repetition of the aggravation by soaking the owners of the offending horses for $5 and $10 at every opportunity.

Among the least satisfactory of the street trees in Washington are the tulip trees. These are very unhealthy in certain places, and Mr. Smith's experience is that they are not adapted for curbstone planting.

The photograph of the big Grass Bed at the Botanic Garden which was recently published in the AMERICAN FLORIST has been the cause of numerous applications to Mr. Smith for stock of the grasses named. He suggests that readers of the FLORIST having these things for sale would be wise to advertise them in its columns. This, he says, would prove a source of relief and comfort to him, besides increasing materially the sales of the advertisers.

One of the most interesting of the beds at the Botanic Garden will this year contain a collection of ficuses. Not less than thirty species will be represented.

A large bed of Indian, Belgian and native azaleas mixed has been very showy this spring. Mr. Smith intends to plant here every variety he can lay his hands on, with the intention of making a feature of it for the purpose of raising seed from chance hybridization.

THE Omaha Nursery Company has been incorporated with headquarters at Portal, Neb. Capital stock $20,000. Incorporators F. W. Taylor, E. H. Barbour, R. B. Owens, John Dugan.

YOU CAN'T AFFORD to do business without a copy of our new trade directory and reference book.

The World's Fair.

The Horticultural Department continues to make rapid progress in spite of the extraordinary wet season. The continuous rains have of course retarded the outdoor work considerably and have also done considerable damage by flooding and drowning out of some stuff already planted, nevertheless everything with few exceptions looks remarkably well.

The department is constantly receiving consignments of various kinds of stuff, though few large specimens of plants are coming in so far.

Mrs. A. C. Hurd, of Havana, Ill., sent in a splendid specimen of the night blooming cereus. The plant stands fully 12 feet high and is in fine condition. Mr. Thorpe would like to obtain a dozen or more such specimens, so as to be able to make a feature of them. A group of these plants in full bloom would prove quite an attraction in the evening.

One of the courts of the Horticultural Building will be devoted to a display of aquatics, the plans of which are now being prepared. Like everything else, this display will be as extensive and complete as it is possible to make it.

In orchids the show promises to be a very extensive and complete one. Special preparations are made by orchid growers to have such varieties represented in bloom during the months of the fair as ordinarily would be in flower in midwinter and early spring. A few shipments are already in and will be cared for and treated by the department. The list includes a lot of Cypripedium Chamberlainianum and Cattleya Mendelli; also a small collection of such varieties as Chysis bractescens and C. aurea, Brassia vermosa, Brassavola glauca, Lælia anceps, L. albida, Lycaste Deppei, Barkeria elegans, oncidiums, odontoglossums, epidendrums and many others.

Tuberous rooted begonias are given a trial this summer for outdoor bedding. About 1,000 plants of these were raised by the department from seed this season. The strongest plants have already been planted out and are doing very well. If a success in our climate a large show will be made next season.

A fine lot of Crozy cannas are just coming into bloom and promise to make a fine display.

The rose garden on the island is looking very fine. Most of the varieties are in bloom now. Among the most showy at present are such kinds as American Beauty, Her Majesty, Anna de Diesbach, Paul Neyron and others. In this class the California exhibit certainly looks the strongest and most thrifty of the whole lot. The standard varieties look rather weak.

A fine collection of clematis from Holland, some 50 varieties, including all the latest novelties, are just coming in bloom. If these plants, some varieties of which are quite tender, can be wintered successfully, they will certainly make a magnificent show next summer.

Chrysanthemums with Variegated Foliage.

We have received from Mr. B. F. Sill, Astoria, N. Y., some chrysanthemum leaves very prettily splashed with white. They were submitted to Mr. John Thorpe who writes as follows:

"The variegated chrysanthemum is not a rarity. Raisers of seedlings frequently have variegation among the yearlings. A really good marginal variegation would be valuable, but the splashed forms have proved too unreliable. Some years ago, in England, there was a pompon chrysanthemum with variegated leaves resembling those of Mountain of Snow pelargonium. This was used as a ribbon line in bedding. Its name was Progress and it was sent out by Bull in '58 or '59."

OBITUARY.

JACQUES JULIEN MARGOTTIN, better known as Margottin pere, died May 13, at his home at Bourg la Reine, France, in his 75th year.

Left an orphan at the age of 14, and without the means of subsistence, he entered upon his profession as a gardener's boy, and by slow degrees attained the eminent position he held among French horticulturists. He had the good fortune to work under M. Boscary, M. Keteleer and later as head gardener at the Luxembourg Gardens under the direction of M. Hardy pere. In 1840 he married and established himself as a rosarian at Ivry, and in 1859 bought his final establishment at Bourg la Reine. An original member of the National Society of Horticulture of France, as well as a large number of other societies, as well as municipal councilor since 1860, he was highly esteemed. He originated a large number of good roses, among others, in 1853, Jules Margottin, which made him a great reputation, and from which are descended most of the finest known sorts. Among others of his raising are Charles Turner, Duchess d'Aoste, Gloire de Margottin. He produced 76 new roses in all, the majority of which were hybrid remontants.

Many prizes have been awarded to the results of his skill, and in 1878 the decoration of the Legion of Honor crowned the series of his successes.

JEAN KETTEN.—Born at Sept-Fontaines near Luxembourg, June 1, 1848, was devoted to horticulture from his very youth. Passed his apprenticeship at Metz, making a specialty of landscape gardening, which he abandoned later, entering into partnership with his elder brother, who founded in 1867 the present well known rose growing establishment. An indefatigable worker, a gentle and loyal character, Jean Ketten had only friends among his many colleagues. He succumbed to typhoid fever, after 18 days of illness, on the 11th of May last.—*Journal des Roses.*

News Notes.

DELTA, COLO.—C. J. Hansen, formerly of Globeville, will start in the business here.

NEW BRITAIN, CONN.—Wm. H. Relyea is no longer in the trade. The greenhouses are now without a tenant.

ST. PAUL, MINN.—Venzke Bros. have dissolved partnership. Mr. L. G. Venzke will continue the business.

OMAHA, NEB.—Mr. and Mrs. Donaghue and Mr. and Mrs. Swoboda started recently on a trip to Europe to visit friends.

SIOUX CITY, IA.—Robert Baur will open a cut flower store here July 15. Mr. Baur was for several years in the employ of F. Morats' Sons of Louisville, Ky.

VALLEY FORGE, PA.—Spring business was very good. R. Lauterbach is building two new rose houses, one 125x35 and the other 60x24. This gives him a total of 13,000 feet of glass.

CHICAGO.—Among recent visitors were John Miles, Ripon, Wis.; J. Hess, Omaha, Neb.; W. T. Hempstead, Bloomington, Ill.; Mr. Coe, of Coe & Converse, Ft. Atkinson, Wis.; W. L. Morris, Des Moines, Ia.; J. D. Carmody, Evansville, Ind.; J. M. Jordan, St. Louis.

RACINE, WIS.—Florist F. Fountaine has issued a premium list for his second annual chrysanthemum show, to be held next November. None but amateurs can compete, and in the same pamphlet he gives a list of young chrysanthemum plants for sale, with prices attached.

ROSE PLANTS.

All the Standard Varieties, best for forcing. Strong, healthy plants in 2-inch and 3-inch pots propagated and raised from best wood. Price list sent on application.

GARFIELD PARK ROSE CO.,
1688 W. Madison St, CHICAGO.

WM. K. HARRIS,
— Wholesale Grower of —
FLOWERING AND DECORATIVE PLANTS,
5501 Darby Road, PHILADELPHIA, PA.

Have a fine lot of *American Beauty Roses* in 4-in. pots for sale. Price $15 per 100.

ROSES.
Wahan, Mermet, Perle, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, Souv. d'un Ami.
Fine, healthy stock from 2½-inch pots $5.00 per 100; $45.00 per 1000.

SMILAX from 2½-in. pots, strong, $3.00 per 100; $25.00 per 1000. Send for price list.
WOOD BROTHERS, Fishkill, N. Y.

FORCING ROSES.
METEOR, CUSIN, MERMET, PERLE, LA FRANCE, WATTEVILLE, BRIDE, ETC.
Strong 4-inch. We deliver free. Prices very low.
A. S. MacBEAN,
LAKEWOOD, N. J.

ROSES.

All leading Forcing sorts. Our stock is in SPLENDID condition. Send for samples.

AMERICAN BEAUTY.	2½-inch	7½ cts
	3½-inch.....	12 cts
	4-inch.....	14 cts

We will put in some extra plants to help out on express charges east of Pittsbu g.

— ALSO —

PERLE, BRIDE, HOSTE, WOOTTON, MERMET, ALBANY, LA FRANCE, C. SOUPERT, MME. P. GUILLOT, ($5.00 per 100.)

AND OTHER LEADERS.

L. HARRISII, ROMANS, } July 18.

FREESIAS NOW READY.
Select Quality, $1.00 per 100.

CINERARIA HYB International mixture, pkt. 50c
ARALIA SIEBOLDTI, pkt. 25c
CALCEOLARIA HYS.. finest mixed, pkt 50c.
PRIMULA CHINENSIS, white, red and mixed, each, pkt. 50c
PANSY INTERNATIONAL MIXTURE, ⅛ oz. $1.00; oz. $10.00. (Orders booked now).

Vegetable Plants.

We carry a full supply of the best leading market varieties, and can ship carefully packed at the proper season. Special prices on application.

J. C. VAUGHAN,

12 Barclay Street, NEW YORK | CHICAGO.

ROSES.

1000 WABANS.
1000 SUNSETS.
1000 PERLES.
1000 MERMETS.

Fine plants, 4-inch pots, $10.00 per 100.

PECK & SUTHERLAND,
67 Bromfield Street,
BOSTON, MASS.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

TEAS..... $30.00 per 1000
HYBRIDS..... 40.00 per 1000

Healthy plants in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,
LOUISVILLE, KY.

ROSES.

The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100, Waban, $6 00; Duchess of Albany, and Meteor, $5.00 per 100; La France, Bride Sunset $5.00 per 100; Perle, Mermet, $4 50; Bennett, $8 00 per 100.

Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

C. A. SMITH FLORAL CO.,
South Seventh St. Minneapolis, Minn.

ROSES. ROSES. ROSES.

All the leading varieties suitable for Forcing, Summer Bedding and Permanent Planting including two New Grand Bedding varieties:

FRANCES B. HAYES, AND OAKMONT,

HYBRID BOURBON. HYBRID REMONTANT.

Extra fine Selected Stock for the Trade.

JOHN N. MAY, Summit, N. J.

SUNNYWOODS GREENHOUSES,

Headquarters of the new pink rose BRIDESMAID.

$25.00 per 100 three-inch plants.
9 00 per dozen four-inch plants.

FRANK L. MOORE, CHATHAM, NEW JERSEY.

ROSES.

We offer for sale this season 30.000 FIRST QUALITY FORCING ROSES grown from strong cuttings in 3 and 4 inch pots, ready for immediate p'anting.

LA FRANCE and AMERICAN BEAUTY, 3-inch pots, $9 co per 100; 4-inch pots, $12 co per 100.

WABAN, SAFRANO, MERMET, MME. HOSTE, NIPHETOS, BON SILENE, SOUV. DE WOOTTON, PERLE DES JARDINS, PAPA GONTIER, BRIDE, SUNSET,

3-inch pots, $7.00; 4-inch pots, $10.00 per 100.

☞ Send for rose circular. We wish every florist needing roses to read it.

J. L. DILLON, - - Bloomsburg, Pa.

100,000 ROSES

for florists' planting, strong, healthy plants of the leading varieties for forcing.

PERLE, SUNSET, WABAN, LA FRANCE, MERMETS, BRIDES, NIPHETOS, PAPA GONTIER, MME. CUSIN, MME. WATTEVILLE, MME. HOSTE and GEN. JACQUEMINOT.

20,000 CHRYSANTHEMUMS, 100 varieties, including Novelties of '92. and the best standard sorts. Send for catalogue.

A. N. PIERSON, Cromwell, Conn.

Forcing Roses.

NOW READY FOR PLANTING

All the leading varieties, Beauty, Perle, Met or, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

M. A. HUNT, Terre Haute, Ind.

ROSES FOR BEDDING.

We have some extra fine stock of roses for bedding purposes.

	3-inch	4-inch		3-inch	4-inch
NIPHETOS	$7.00	$10.00	DUCHESS OF ALBANY	$7.00	$10.00
PAPA GONTIER	7.00	10.00	DUCHESS OF EDINBURGH	7.00	10.00
PERLES	7.00	10.00	MERMETS	7.00	10.00
WOOTTON	8.00	12.00	BRIDES	7.00	10.00
LA FRANCE	7.00	10.00			

All grown from two-eyed cuttings. Extra fine, healthy stock.

DIRECT ALL ORDERS TO

FOREST GLEN FLORAL COMPANY,
Forest Glen, Cook Co., Ill.

FORCING ROSES

IN SPLENDID CONDITION.

	2-in. pots per 100	3½-in pots per 100
DUCHESS OF ALBANY	$5 00	$10 00
PIERRE GUILLOT	4.00	10.00
LA FRANCE	4 00	8.00
PERLE DES JARDINS	4.00	8.00
PAPA GONTIER	3 00	7.00
MME. HOSTE	3 00	7 00
MME. DE WATTEVILLE	3 00	6.00
MERMET.	3 00	6 00
BRIDE.	3.00	6 00

☞ Samples mailed for 25 cents.

ANDREW L. BLACK, Baltimore, Md.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.

10,000 HARDY ENGLISH IVY.
15,000 La France, Mermet, Perle, Gontier, Meteor, Sunset, M. Niel,
in 3-inch and 4-inch pots.
5,000 ASSORTED ROSES.

La Roche & Stahl,
N. E. Cor. 13th & Chestnut Sts.,
PHILADELPHIA, PA.

V. LEMOINE & SONS,

NANCY, FRANCE.

Catalogue of novelties, including Begonias, Pelargoniums, Chrysanthemums, Gladiolus, Montbretias, etc., etc., can be had on application. Orders kindly solicited by their agents.

C. C. ABEL & CO, New York.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

Toronto, Ont., July 20–21—Annual flower show, Electoral District Society. J. P. Edwards, Sec'y, 146 Wellington St, West.

Eaton, O., Aug. 11–13—Annual flower show Eaton Floral Society. H E Jephson Sec'y.

Washington, D C. Aug. 16–19—Annual trade exhibition of Society of American Florists. C. F. Hale, Supt. of exhibition.

Boston Sept. 6–9—Annual exhibition plants and flowers, Mass Hort Society Robert Manning, Sec'y, Hort. Hall, Tremont St.

Galt, Ont., Sept. 7–8—Exhibition of fruit and vegetables Galt Hort. Society. Edward Lane, Sec'y.

Boston, Oct. 4–6—Annual exhibition fruits and vegetables, Mass. Hort. Society.

New York, Nov. 1–7—Chrysanthemum show, New York Florists' Club. Wm Plumb, mgr. of exhibition. Madison Square Garden.

Philadelphia, Nov. 7–11—Chrysanthemum show, Pennsylvania Hort Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

Galt, Ont., Nov. 8–9—Chrysanthemum show Galt Hort. Society Edward Lane, Sec'y.

Toronto, Ont, Nov 8–10—Chrysanthemum show, Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 276 Victoria St.

St Louis, Mo., Nov 8–10—Chrysanthemum show, St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania Ave

Boston, Nov. 8–11—Chrysanthemum show, Mass. Hort. Society. Robert Manning, Sec'y.

Chicago, Nov. 8–11—Chrysanthemum show, Hort. Society of Chicago. G. L. Grant, Sec'y, 322 Dearborn St.

Washington, Nov. 15–17—Chrysanthemum show Washington Florists' Club. G. W. Oliver, Sec'y, 1844 8th St. N. W.

Indianapolis, Nov. 15–19—Chrysanthemum show, Society of Indiana Florists Wm. G. Bertermann, Sec'y, 37 Massachusetts Ave., Indianapolis.

Pittsburg, Pa, Nov. 15–19—Chrysanthemum show, Pittsburg and Allegheny Florists' and Gardeners' Club. G. Oesterle, Sec'y, 4200 Forbes St., Pittsburg.

Baltimore, Nov. —— Chrysanthemum show, Gardeners' Club of Baltimore. J. J. Perry, Sec'y, 221 N. Liberty St.

Cincinnati, Nov. —— Chrysanthemum show, Cincinnati Florists' Society. E. G. Gillett, Sec'y, 135 Walnut St.

Pittsfield, Mass, Nov. —— Chrysanthemum show, Berkshire County Gardeners' and Florists' Club. A. H. Meredith, Sec'y. Pittsfield.

Erie, Pa., Nov. —— Chrysanthemum show, Erie Chrysanthemum and N. W. Penna. Hort. Society. H Tong, Sec'y.

Bay City, Mich., Nov. —— Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y.

Catalogues Received.

H. H. Berger & Co., San Francisco, Cal., plants and bulbs; P. J. Berckmans, Augusta, Ga., plants and nursery stock; W. J. Hesser, Plattsmouth, Neb., plants; B. J. Lomans, Haarlem, Holland, bulbs; Dammann & Co., San Giovanni a Teduccio, Italy, bulbs; Henry F. Michell, Philadelphia, bulbs; Thos. Immerschitt, Aschaffenburg, Germany, seeds; J. H. H. Boyd, Cagle, Tenn., tree seeds; J. Chas. McCullough, Cincinnati, O., seeds; Pitcher & Manda, Short Hills, N. J., orchids; Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y., heating apparatus; J. M. McCullough's Sons, Cincinnati, O., seeds and bulbs; Rea Bros., Norwood, Mass., hardy plants; Herendeen Mfg. Co., Geneva, N. Y., heating apparatus; John Laing & Sons, London, England, hardy plants; same, tuberous begonias; J. M. Thorburn & Co., New York, forcing bulbs; John Gardiner & Co., Philadelphia, forcing bulbs; C. H. Joosten, New York, bulbs and plants.

It is getting along toward last call for photographs for our convention supplement, and if you have not yet sent yours in please attend to the matter at once. And don't forget the ladies. If you expect to take your wife with you, and you ought to do so if you possibly can, send in her photo too. We want to make the introduction as broad and complete as possible.

Send in your advs. for our convention supplement early and thereby oblige the publishers, as well as securing the best display.

NOTICE

— OF —

Stockholders' Meeting.

CHICAGO, July 14, 1892.

Stockholders of the American Florist Company:

You are hereby notified that the annual meeting of the Stockholders of the American Florist Company will be held in the Red Parlor of the Ebbitt House, Washington, D. C., Wednesday, August 17, 1892, at 2 o'clock P. M., for the purpose of electing directors and officers for the ensuing term, and for the transaction of such other business as may come before the meeting.

J. C. VAUGHAN, Pres.
G. L. GRANT, Sec'y.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a gardener; German; married, no children; either in trade or on private place. Best of recommendations. Address GARDENER, 930 N. Clark St, Chicago.

SITUATION WANTED—Gardener, German, single, experienced in roses, pot plants, etc.; well recommended, wants situation in or near Chicago. JOS. MUHLUM, 1127 Wrightwood Ave., Chicago.

SITUATION WANTED—By competent, single florist and gardener; experienced man in all branches pertaining to the business. Please state full particulars in answering. WM. K., care John Stidle, 93 2nd St., Allegheny City, Pa.

SITUATION WANTED—To take entire charge, either commercial or private where several is kept; qualifications, roses, carnations, chrysanthemums, decorative and bedding plants, making up, bulbs, etc., good wages wanted, single, references. FLORIST, 128 La Salle St., Room 9, Chicago.

SITUATION WANTED—The advertiser, a young man of practical experience in England and the U. S. would like a position in a first rate private place as manager. Is thoroughly conversant in all branches of horticulture, and competent in every department under glass; also in the pleasure grounds, field or forest. Address J F, 67 Bromfield St, Boston.

WANTED—Partner; single man to take half interest in greenhouses. All new. 5,000 ft. of glass. Address J SIMPSON, care American Florist.

WANTED—Small hot water boiler with pipes, fixtures, etc., for heating two houses 10x60 ft. State kind, price f. o. b. and heating capacity. JOSEPH BANCROFT, Cedar Falls, Iowa.

WANTED—A man to take charge of a commercial plant of 14 greenhouses, to grow mostly cut roses and small rose plants. Prefer married man. Must have good references others need not apply. Address LAROCHE & STAHL, 1237 Chestnut St., Philadelphia, Pa.

WANTED—By August 1 or before, a single man, sober, honest, industrious, good plantsman, and able to make up. To such, a situation is open, where two are employed, to take charge. Address, stating wages expected with board, experience, etc., H, care Peck & Sutherland, 67 Bromfield St., Boston, Mass.

FOR SALE—Greenhouses and stock. For particulars, address W. S. SAWYER & Co., Lincoln, Neb.

FOR SALE CHEAP—A nursery business in a western town of 20,000. A rare chance for a good florist Address A, care American Florist.

FOR SALE Devine hot water boiler, 1,500 ft 4-inch pipe, sashes, glass, etc Must be sold at a sacrifice. Bargain for one who is going into business. T. D. REMMER, 2714 Fifth Ave., Chicago.

FOR SALE—At a bargain, a florist's business in a thriving city near St. Paul. Proof, profits over $125 a month. For particulars address SELLER, care American Florist, Chicago.

FOR RENT—Five brick greenhouses, already stocked; one 20x40, three 20x60 and one 13x30, with 6-room brick dwelling, nicely located in city of 65,000. Address C. G. TURNER, 1513 Franklin St., Wilmington, Del.

FOR SALE—A well established florist business, 6 greenhouses and full stock, on account of death. Ten years lease on land. For further particulars, inquire of MRS. GEO. LISCHKE, Lathrop St. near Grand Ave., Astoria, Long Island, N. Y.

FOR SALE—Rose growing plant containing 25,000 square feet of glass, with property, situated 25 miles from New York City; stock and houses in A1 condition; plants are growing for next season's planting, mostly Am. Beauty and La France. Will sell on easy terms. Address ROSE GROWER, care American Florist.

FOR SALE.

Nine greenhouses, containing about 16,000 feet of glass, ½ best double glass; all houses rebuilt 4 years ago; heated by hot water—use city water for watering—2 acres of land, 1 brick dwelling house with 8 rooms, 1 frame house of 4 rooms, stable, horse, harness, wagon, etc. The above property is located in one of the best commercial cities of the west, with a population of over 60,000, and within 1¼ miles of city hall; electric cars pass every 6 minutes direct to city hall and Union depot The greenhouses are well advertised and enjoy a good patronage at home and from abroad, and now contain a good stock of cut flowers, decorative and bedding plants. Poor health causes owner to retire from business. Would also be willing to sell greenhouses and stock and lease grounds and one dwelling house for a number of years, with privilege to purchase at a fixed price when lease expires. A bargain to a man with small capital. Address BUSINESS, care American Florist, Chicago.

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An experienced propagator and greenhouse man to take charge of a commercial establishment. Only those of thorough business habits and training and willing to push things need apply Address with full particulars, age, experience, references, married or single, etc., PIKE & ELLSWORTH, Seedsmen & Florists, Jessamine, Pasco Co., Fla.

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Roses, La France, Albany, Brides	2.00@ 3.00
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" Marie Guillots	2.00
Carnations	.50@ 1.00
Sweet peas	.35@ .50
Valley	6.00
Cornflower	.50
Water lilies	.35
Smilax	15.00
Adiantums	.75@ 1.00

	CHICAGO, July 12
Roses, Perle, Niphetos, Gontier	2.00@ 4.00
" Mermets, La France Hoste	3.00@ 4.00
" Bennetts, Dukes, Woottons	3.00@ 4.00
" Albany, Bride	3.00@ 5.00
" Am. Beauties	8.00@16.00
Carnations, long	1.00
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HARDY AND TROPICAL, DAY AND NIGHT BLOOMING VARIETIES.
All the newest and choicest in cultivation. Catalogues free. Special trade rate.
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The Seed Trade.

CHICAGO.—Among recent visitors were Jas. W. Hogg, of the Steele Bros. Co., Toronto; Frank T. Emerson, Omaha; J. C. Robinson, Waterloo, Neb.; Benj. Hammond, Fishkill-on-Hudson, N. Y.

IN OUR new trade directory there is a total of 7,336 names and addresses. Of these 3,593 are general florists who both grow and retail; 562 are florists who grow for wholesale trade only; 434 are store florists who are dealers only and have no glass; 34 are wholesale commission dealers in cut flowers; 1,590 do an exclusive nursery business; 584 combine the business of nurseryman and florist; 282 are seedsmen; 172 are seedsmen and florists; 27 do both a nursery and seed business; and 58 combine all three trades. Of the florists, both exclusive and those who combine it with one or more of the other trades, there is a grand total of 5,437; of the nurserymen, classed also as above, there is a total of 2,259; and of seedsmen 539. To reach all possible buyers of florists' plants (F., F. Gr., N. F., F. S. N.) it will take 4,797 copies of your catalogue or price list; to reach all possible buyers of supplies used in making up flowers, etc., (F., F. St., N. F., S. F., F. S. N.) 4,841 copies will be needed; to reach all possible buyers of nursery stock (N., N. F., F. S. N., N. S.) you will want 2,259 copies.

St. Louis.

July has been cold and wet. The flower trade has reached the summer standard. Roses are small and poor.

Mr. Klokenkemper, of the city park department, is getting up plans for three new houses to be erected in Forest Park for growing bedding plants.

Ellison & Kuehn have dissolved partnership. Mr. Kuehn will continue the manufacture of wire designs and the commission business at the old stand. Mr. Ellison will open a commission house about September 1. J. C. DUFFEY.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

ORCHIDS.

The finest stock in the WORLD. Nearly five acres devoted to their culture.

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Thirty minutes from London.

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Nice young plants, 2½-inch, $2.00 per 100; $18.00 per 1000.

CYCLAMEN PERSICUM GIGANTEUM strong blooming bulbs, $18.00 per 100.

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Good, strong plants from 3-inch pots, $3.00 per 100: $25.00 per 1000.

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8 Franklin Street, PROVIDENCE, R. I.

LILIUM HARRISII (Bermuda Easter Lily).

FIRST CONSIGNMENT due this month. SECURE our extra large sized bulbs by placing your orders NOW, and COMPARE our prices and sizes before ordering elsewhere. We are yet in position to ship any number.

LILIUM HARRISII.

	Inches.	Inches.	Inches.
OUR UNEQUALLED LARGE SIZES:	6-7	8-9	10-11
OTHER DEALERS' SIZES:	5-7	7-9	9-11

NOTE DIFFERENCE IN CIRCUMFERENCE OF BULBS.

Ours contain no small Bulbs whatever, whereas those usually sold contain at least 50 per cent. of the smallest size we exclude entirely. Send us estimate of your wants for prices.

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DWARF CALLA LILY "THE GEM". Large flowering bulbs, $20 00 per 100. Special price for large quantities. Grows from 9 to 12 inches in height; flowers smaller, pure white and more profuse than the common Calla, which makes it indispensable for design work.

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FIRST SIZE	$.75	$5 50
SELECT	1 00	7.50
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$1.25 per hundred.
$5.00 per five hundred
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DRACENA TERMINALIS, 4-in., $10.00 per 100

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7,000 2-inch H. P's, good varieties.
7,000 2, 3 and 4-inch Teas; forcing stock.
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General assortment of Geraniums, Ivy Geraniums, Coleus, Smilax, Anthemis, Petunias, Ageratum, Cuphea, Fuchsia, Alternanthera, Manettia Vine, Moon Vine, Lemon Verbena, Anthericums, Asparagus, Clematis, Chrysanthemums (all leading varieties), Eucharis Amazonica, Heliotropes, Dahlias, Lantanas, Hydrangeas, Hibiscus, Begonias, Garfield and Lizzie McGowan Carnations, Vincas, Abutilons, Stevia, Poinsettia, Golden Feverfew, Sword Ferns, Cytisus, Primula Obconica, and Tuberose bulbs.

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In buying see that you get the true variety, as it has many aliases. **Price, strong plants, $8 per 100.**

Owing to the heavy demand, our stock of this most desirable Fern, ready for immediate shipment, is getting low. In order to accommodate those who wish to make plantings later in the season, we will book orders now for delivery any time till July 1st. This will give florists who are now busy with their spring work an opportunity to secure their stock and have it delivered at a time when they can take care of it.

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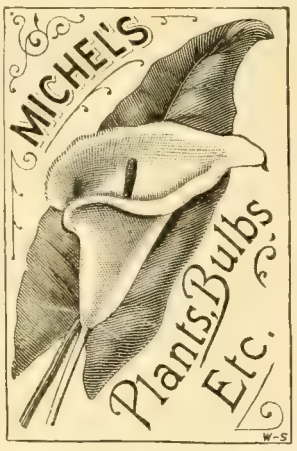
There is a touch of all the great specialties here. I guarantee this seed to produce as large a variety of choice pansies (for the quantity sown) as can be bought of any seedsman in the world. If it fails to do so, will take your word for it and refund the price paid. 1000 seeds $1.00. Write to-day as this adv. will not appear again. **Charles L. Burr, Springfield, Mass**



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We also have a heavy stock of **Snowflake** that we wil close out at $1.50 per 100; $12 per 1000, for the next three weeks.

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Tuberous Begonias.

Small plants by mail, in colors, per 100, $3 00; mixed, $2.50.

We also have now strong plants in 2-inch pots, ready for planting out, per 100 (weigh 40 lbs.), $4 50; mixed, $4.00.

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ROSES, CLEMATIS, AZALEAS, RHODODENDRONS, SHRUBS, Etc.

Always on hand in New York from November until May.

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P. O. Box 1845. **NEW YORK.**

PANSY SEED.

The Jennings strain of large-flowering and fancy Pansies You want this strain of Pansies if you want the best stock, all carefully grown by myself, and first-class in every respect. To all my old patrons, will say, they will find a decided improvement from last year.

Finest mixed, all colors, pkt. 25c., 50c. and $1 each. Ounce, $6 00; 3 or more ounces, $5 00 per ounce.
Large yellow, black eyes pkt. 50c. and $1.00.
Pure white, prepaid by mail, pkt. 50c. and $1 00.
Address, cash with order,

E. B. JENNINGS,

CARNATION, VIOLET AND PANSY GROWER,

Lock Box 254. SOUTHPORT, CONN.

BULBS. BULBS.

We book orders now for

Lilium Auratum, Speciosum Album, Speciosum Rubrum, Longiflorum, etc., Chinese Narcissus and CALLA BULBS.

Cycas revoluta, fine imported stems, 10 cents per lb. Araucarias and Australian Palm Seeds.

Send for Catalogue. *FELIX GONZALEZ & CO.,*

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Asparagus Plumosus Nanus.

Extra fine plants.

From 6-inch pots, $7 50 per doz.; $60 00 per 100. From 7-in. pots, $8.50 per doz. From 8-in. pots, $10 per doz.

ADIANTUM CUNEATUM, from 4-inch pots, fine plants, $15.00 per 100.

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Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.

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Toronto.

The first trip outside his own domain which the undersigned has made this year was to Exhibition Park where is located the domicile of Mr. John Chambers, City Park Superintendent, and also the greenhouses and frames for growing the bedding plants for all the city parks. Mr. Wm. Lightfoot, the able head gardener, was found still in the throes of bedding out, the late excessively wet weather having delayed operations; in fact water was still standing in the edges of some of the beds. The stove and greenhouse plants were all looking in fine condition, especially the ferns, of which there is a valuable collection. Amongst the orchids in flower I noticed several good pieces of Saccolabium præmorsum, Vanda cærulea, Maxillaria grandiflora, etc. I must also mention a lovely fancy caladium labelled Marajo, quite a gem.

Island Park was also visited and found to be looking green, fresh and gay with flowers and picnic parties. Those who remember this island 20 years ago must admit that John has done wonders with the sandy desert he had to work on, and improvements are still being made every year according as the city doles out the funds.

To finish out the day Mr. Robt. Mearns, florist of Parkdale, was next called on. He was found just starting out for the bush on a native fern hunt. He, along with Mr. Gilchrist, florist of Toronto Junction, intended taking advantage of the cheap Christian Endeavor excursion to New York in order to visit all the leading florists' establishments in and around the city.

The next day the cars were taken for the town of Guelph, about 50 miles from Toronto, where is situated the Ontario Agricultural College, the gardens of which have for the last 12 years been under the charge of Mr. James Forsythe, formerly of Toronto (Normal Schools). A fine range of greenhouses has just been erected to supersede the old ones which were heated by flues and are decidedly antiquated. The new range positively made one envious; it is capable of growing some fine stuff. The capacious lawns were looking their greenest and many specimen trees planted about appeared to be well looked after and growing luxuriantly. Mr. Forsythe has planted lately a good many of the Colorado blue spruce (Picea pungens) which will be very effective when they grow larger; they seem to be quite at home. There is also a long herbaceous border containing about 500 species. Mr. Forsythe being unfortunately confined in the house with rheumatic fever was unable to show me about or I should no doubt have many more interesting features to record. E.

GIANT PANSIES.

It's the **BIG PANSIES** that "take the cake" now. The best is none too good for your trade. The plants I offer are the Zirnglebel strain—best there is. It costs more than strains ordinarily sold, but I offer strong stocky seedlings. August delivery and later, at usual price: 75 cts per 100 by mail; $5 00 per 1000 by express. Strong transplanted plants, many of them showing bud, $1 25 per 100; $10 00 per 1000.

ALEX. McBRIDE, Alpiaus, N. Y.

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ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

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Griffin's Tuberous Begonias.

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Come and see the NEW SWEET-SCENTED HYBRIDS now in full bloom, together with the finest collection ever seen in this country. Also one hundred and fifty thousand Seedlings growing and blooming in the open field, making the grandest floral display in America.

SEED of all varieties, including the sweet-scented varieties, ready in November, in sealed packets only.

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Westbury Station, L. I., N. Y.

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ORCHIDS AT WHOLESALE.

CATTLEYA TRIANAE.

An especially fine lot of this useful and Winter Flowering Orchid received.

PRICES ON FROM 1 TO 50 CASES ON APPLICATION.

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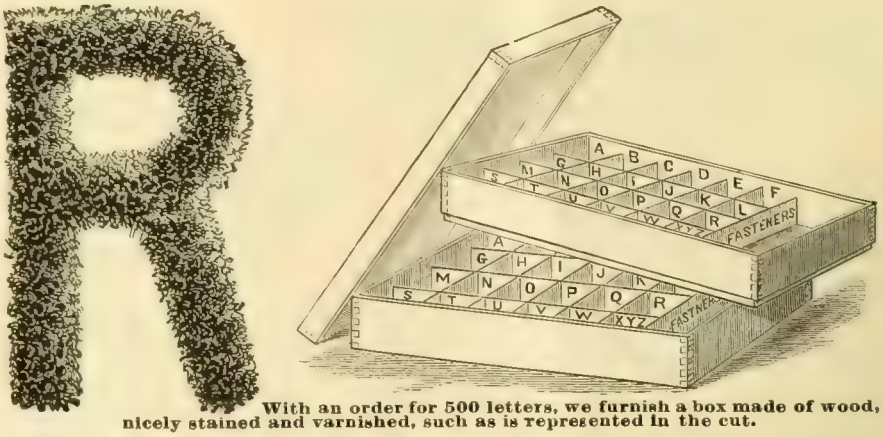
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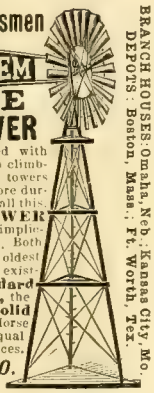
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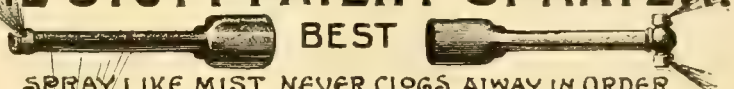
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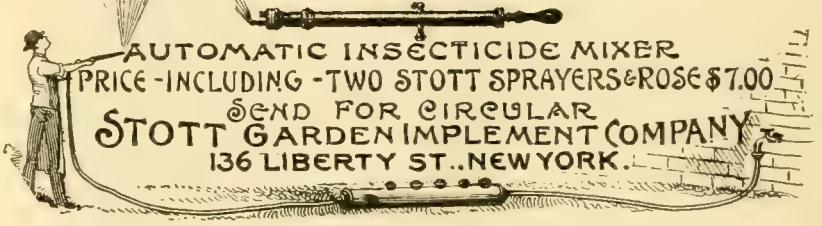
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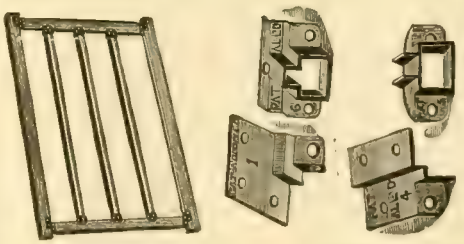
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Buffalo.

Business is now very quiet. Our city is such a cool delightful place in the summer months that no one ever dies here at this season, making funeral orders quite scarce. Stores are closing at 6 o'clock and there is a general let up of business in all departments. Florists are visiting each other nowadays and the talk is either of Washington or how are your chrysanthemums. A visit to the beautiful Niagara Hotel and the private gardens of Mr. Lewis gave us a sight of some remarkably fine chrysanthemums; standards 5 to 6 feet high, with spreading heads and stems like walking sticks. Mr. Valentine Hamman, the able gardener, has worked very hard at the Niagara and has got all departments in excellent order. Mr. G. S. Pickelman with the help of the veteran G. McClure has also a fine lot of "mums," and Palmer & Son, J. H. Rebstock, Scott and several others are in the race.

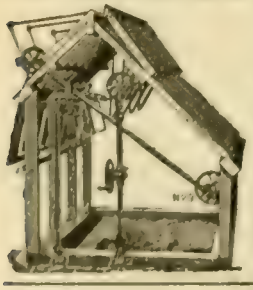
Some of the Main street flower stores have good displays of Japan lilies, gloxinias and tuberous rooted begonias. After considerable experience we find the begonias a poor store plant; drops its flowers at once. But the gloxinia seems to thrive about as well in a dwelling house as it does in a greenhouse. Several thousand have been grown here this summer and they sell well in 5-inch pots at 75 and 50 cents each.

At the last meeting of our club a committee was appointed to arrange for transportation to Washington. We are in hopes that the Toronto men can and will come our way, and with our united forces, and most likely a few from Rochester, charter a sleeper from Rochester over the Northern Central R. R. It would be a most enjoyable way to travel, and if that lively youth Foster of Hamilton began to cut up too much we should have the sedate George Vair with us to call him down.

I have noticed a marked improvement in the appearance of several of our florists recently. Moustaches dyed, etc. On inquiring the cause I find they had been to the photographer to have their pictures taken for the AMERICAN FLORIST. G. S.

THE several hundred photgraphs that we have in hand for our convention supplement show the members of the Society of American Florists to be an unusually fine looking body of men. We question whether any other trade organization could present so good an appearance. There isn't a "dude" or a "pretty" man in the whole lot, but every face shows character and manliness.

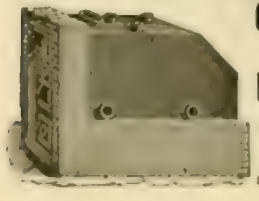
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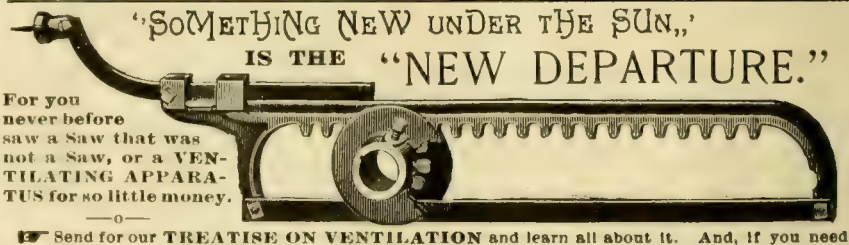
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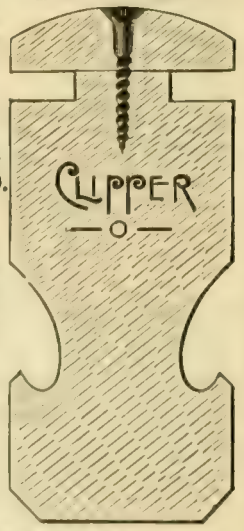
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Shall we book your order next?

Enclose 2c. stamp for sample.

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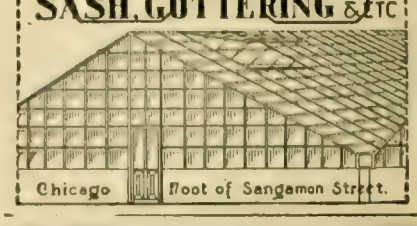
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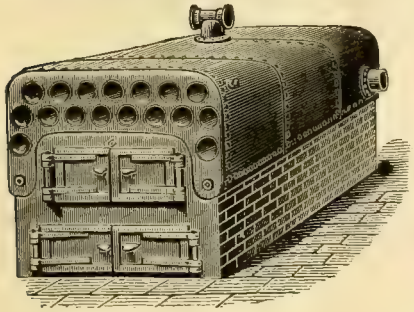
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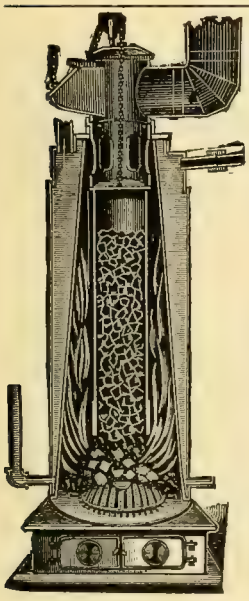
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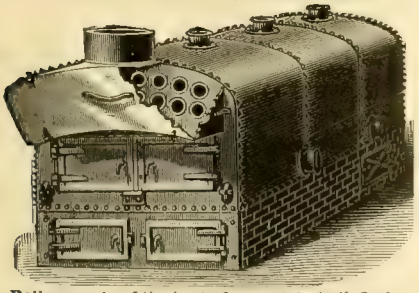
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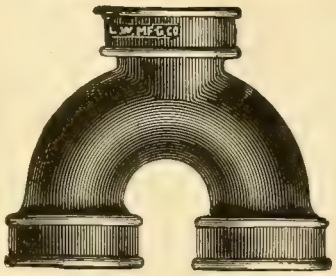
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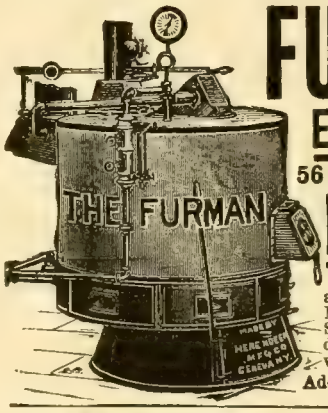
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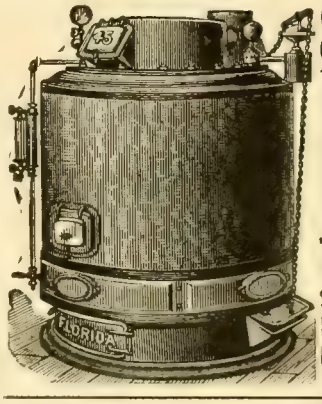
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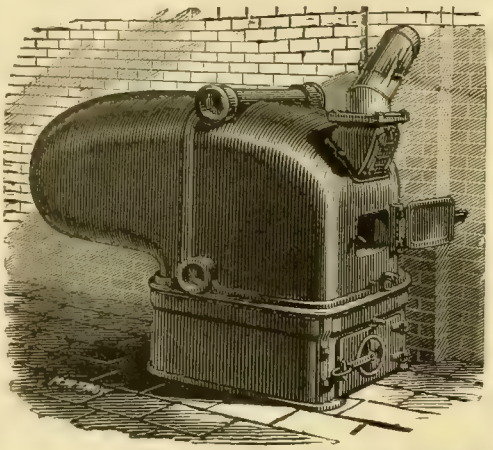
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CONVENTION SUPPLEMENT

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Our Annual CONVENTION SUPPLEMENT will be published with the

AUGUST 11 ISSUE.

It will contain the portraits of the majority of those in attendance at the Washington meeting, arranged in such form as to serve us as a means of mutual recognition, and will be frequently consulted by all at the meeting. It will also contain much other information of value, and will unquestionably be an exceptionablly valuable advertising medium.

ADVERTISEMENTS for the Supplement should be received by **August 4 at latest,** and as much earlier as possible. **Rates** same as in the body of the paper: **10 cents per agate line; page $42; half page $21; column $14; half column $7; inch $1.40.**

Being mailed with the August 11 issue it will reach members before they start for the Convention, and will be their friend, philosopher and guide on the way to and during the meeting. Extra copies will be distributed at the Convention.

SEND IN YOUR ADVERTISEMENTS EARLY.

AMERICAN FLORIST CO.,

322 Dearborn St., CHICAGO.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. VII. **CHICAGO AND NEW YORK, JULY 21, 1892.** **No. 216**

THE AMERICAN FLORIST

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PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

The Eighth Annual Meeting

— OF THE —

SOCIETY OF AMERICAN FLORISTS

— WILL BE HELD AT —

WASHINGTON, D. C.,

AUGUST 16, 17, 18 AND 19, 1892.

Members may remit the annual dues ($3 00) to the secretary or treasurer prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for 1892 will be sent by mail to those who remit in advance of the meeting.

Intending members can obtain any information wanted by addressing the secretary.

James Dean, Bay Ridge, N. Y., president; W. R Smith, Washington, D. C., vice-president; Wm. J. Stewart, 67 Bromfield St., Boston, Mass., secretary; M. A. Hunt, Terre Haute, Ind., treasurer.

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IT IS now last call for photographs for our convention supplement, and if you have not yet sent yours in please attend to the matter at once. And don't forget the ladies. If you expect to take your wife with you, and you ought to do so if you possibly can, send in her photo too. We want to make the introduction as broad and complete as possible. We must have all the photos in hand by August 1 at the latest.

Society of American Florists.

PRELIMINARY CONVENTION PROGRAM.

TUESDAY, AUGUST 16, 1892.

Opening Session 10 a. m.—Address of welcome. Response. President's address. Reports—Secretary, Treasurer, Standing Committees, Special Committees. Miscellaneous business. Discussion of President's address.

Evening Session 7:30 o'clock:—

ESSAY.—Club root on roses and other plants; its cause and probable remedy. Prof. Byron D. Halsted, Agri. College, New Brunswick, N. J.

Discussion.

ESSAY.—Insect pests in the greenhouse; their cause. John Saul, Washington, D. C.

Discussion.

WEDNESDAY, AUGUST 17, 1892.

Morning Session 10 o'clock:—

Selection of place of meeting and nomination of officers for 1893. Reports of exhibition committee.

ESSAY.—The propagation of roses. Paul Pierson, Scarborough, N. Y.

Discussion.

ESSAY.—The European bulb market and the American buyer. John Reck, Bridgeport, Conn.

Discussion.

Selection of State Vice-Presidents for 1893.

Evening Session 8 o'clock:—

ESSAY.—Hybridization and the improvement of plants and flowers. Richard Bagg, Bridgeton, N. J.

Discussion.

The Question Box.

THURSDAY, AUGUST 18, 1892.

Morning Session 10 o'clock:—

Election of officers. Review of new plants. Wm. Falconer, Glen Cove, N. Y.

ESSAY.—Flowers for holiday demands. Henry Young, St. Louis, Mo.

Discussion.

Evening Session 8 o'clock:—

ESSAY.—Floriculture for children as a means of increasing and diffusing a knowledge and love for flowers. Robt. Farquhar, Boston, Mass.

Discussion.

The Question Box.

Deferred business and final committee reports.

FRIDAY, AUGUST 19, 1892.

In the forenoon a trip to Mt. Vernon by invitation of the National Gardeners' Club. In the afternoon the bowling contest.

THE QUESTION BOX.

The following subjects for the question box have been already sent in, and together with those placed in the box during the sessions, will be assigned to gentlemen competent to reply to them, on the evenings of the second and third day.

SUBJECTS.

What are the best 12 varieties of carnations for commercial purposes?

What are the best 12 hybrid roses for bedding purposes?

What are the best 12 monthly or everblooming roses for amateurs?

What are the best 12 palms for florists' use?

What are the best 12 ferns for florists' use?

What are the best 12 orchids for florists' use?

What are the best 12 hardy herbaceous plants for cut flower purposes?

Has the steaming of tobacco been found effectual in the killing of greenfly with no evil results.

What are the best materials for shading on glass in summer and how applied?

How to mend a hose?

What admission fee for chrysanthemum shows is likely to bring the best results in cities of from 100,000 to 200,000 population?

How can Florists' Clubs be best managed for the interest of their members?

What measures should the society take for the protection of its members from outside sharks?

THE TRADE EXHIBIT.

The accommodations for the society headquarters, the meetings and the trade exhibit are all under one roof, the location being the National Rifles Armory on G street, between 9th and 10th.

The space available for the exhibition is not large and already several large sections have been applied for and reserved. Intending exhibitors should lose no time in securing needed space. The rule of "first come first served" will be adhered to. Application should be made to C. F. Hale, 719 14th street, who is superintendent of this department. Applicants should state number of square feet required, the kind of goods to be exhibited and whether floor or wall space is preferred. A printed copy of the rules governing the exhibition will be mailed by Mr. Hale to those who request it.

Entertainment Program.

Below is the program adopted at the regular meeting of the National Gardeners' Club held July 12:

TUESDAY, JULY 16.—Between sessions arrangements will be made for visiting the National Museum, Smithsonian Institute, Agricultural Museum and grounds, Bureau of Engraving and Printing, Washington Monument and grounds; in the evening a musicale at the hall. Refreshments will be served after the musical entertainment.

WEDNESDAY.—We will visit the White House and grounds, State, War and Navy Departments in the forenoon. In the afternoon a reception will be held at Hon. John McLean's Park. It is the earnest

desire of this club that every member of the Society of American Florists attend this reception, that they may have an opportunity of an introduction to each other and become more intimately acquainted.

THURSDAY.—A visit to U. S. Botanic Gardens and the Capitol. Arrangements have been made to have a photograph of the society taken with the Capitol some distance in the background. We intend having a picture of the society and not of the Capitol. The site to be selected by the artist.

FRIDAY.—The morning will be devoted to a trip down the Potomac to Mount Vernon, the tomb of Washington and his old homestead. The afternoon will be devoted to the Bowling Clubs. In connection with this, I will state, that the Washington Florist Bowling Club have been specially fortunate in securing the magnificent alleys of the Columbia Athletic Club, through the untiring efforts of Mr. J. R Freeman. These alleys are simply perfect in all their points and I don't think even the most fastidious bowling crank can find anything to growl at.

The Eastern Special.

The special train which has been arranged for by the combined committees of the New York and the Philadelphia Florists' Clubs from New York to Washington over the Pennsylvania R. R., will be the biggest thing of the kind on record. Satisfactory arrangements have been completed between Boston and New York, and the Boston delegation will join the New York party on Monday morning, August 15, at Jersey City, obtaining the same low rate of fare between New York and Washington as has been granted to the New York people.

The following is the running time of the special train: Leaving from foot of Cortlandt street, N. Y., at 10:20 a. m. Monday, August 15. Stopping at Newark, 10:49; at New Brunswick, 11:20; Trenton, 11:52. Arriving at Philadelphia at 12:40. Leaving Philadelphia at 2:40, and due in Washington about 6 p. m.

The fare for the round trip, New York to Washington and return, will be $6 50. *These tickets can not be procured at the R. R. station.* Parties wishing to join in New York or New Jersey should write to J. N. May, Summit, N. J., enclosing $6 50 for each person going and tickets will be forwarded immediately. That ample accommodations may be secured for all, parties are requested to give not less than three days notice of their intention to go. Tickets will be good on any train of the Pennsylvania R. R., and should anything prevent the holder of the ticket from going the money will be refunded upon presentation of the ticket to Mr. May immediately after the date given. Parties wishing to join at Philadelphia should arrange with Mr. John Westcott, 1518 Chestnut street, Phila.

From Chicago to Washington.

The Chicago Florist Club has secured a special low rate from Chicago to Washington over the Pennsylvania R. R., unquestionably the best route, and the train selected will take the party over the Allegheny mountains during the day time so there will be opportunity to fully enjoy the magnificent scenery. Florists in the west and northwest are cordially invited to join the Chicago party and share in the advantages secured. Berths may be reserved by addressing any member of the committee, whose names follow: G. L. Grant, 322 Dearborn street; J. C. Vaughan, 146 W. Washington street; P. J. Hauswirth, 318 Wabash avenue.

Washington Hotels.

Below are given the names and locations of the hotels with which rates have been made by the local committee for convention week, together with the rate per day secured:

Made's, cor. 3d street and Penna. avenue, N. W., American, $2.

Belvedere, N. W. cor. 3rd street and Penna. avenue, American, $2; European $1 and upward.

Reuter's, 4½ street and Penna. avenue, American, $2; European, $1.

Meyer's, 470 Penna. avenue, N. W., American, $2; European, 75 cents.

Metropolitan, Penna. avenue, bet. 6th and 7th Sts., special rate, American, $3.

Ebbitt, cor. 14th and F streets, special rate, $3, no charge for parlors.

St. James, cor. 6th street and Penna. avenue, N. W., European, $1 to $3.

Howard House, cor. 6th street and Penna. avenue, special rate, $2.

Randall, S. E. cor. 15th street and Penna. avenue, American, $2.50.

Riggs, cor. 15th and G streets, N. W., American, $3.

Arlington, Vermont avenue and H St., N. W., special, $4.

Welcker's, 15th street near Penna. avenue, N. W., American, $3; European, $1.

Hotel Johnson, cor. 13th and E streets, N. W., European, $1 to $2 50 each.

Willard's, cor. 14th street and Penna. avenue, American, $3 and upward.

American House, cor. 7th street and Penna. avenue, American, $2.

Cochran, cor. 14th and K streets, N. W., American, $3.

Normandie, cor. 15th and I streets, N. W. Special, $3.50.

Oxford, cor. 14th street and New York avenue. Special, $2.50.

Hillman House, North Capitol street, bet. B and C streets, N. E., $2 and upward.

National, cor. 6th street and Penna. avenue, American, $2.50; European, $1.

Chairmen of Committees of the National Gardeners' Club of Washington for S. A. F. Convention.

Reception—W. R. Smith, U. S. Botanic Garden.

Executive—Benj. Durfee, 909 F street.

Exhibition—C. F. Hale, 719 14th St.

Hotel—J. R. Freeman, 612 13th St.

Entertainment—W. S. Clark, Bladensburg Road.

Badge—W. H. King, Wenthorpe Heights D. C.

Bowling—J. R. Freeman, 612 13th St.

Decoration—J. H. Ley, Anacostia, D. C.

Advertising—C. F. Hale, 719 14th St.

Bureau of Information—C. Leslie Reynolds, 1718½ 10th St., N. W.

Washington.

Mr. Wm. Galt, the bachelor member of the firm of Galt Bros. & Co., jewelers, has presented the Gardeners' and Florists' Bowling Club of Washington a very handsome "Loving Cup," the same to be bowled for at the coming convention of the S. A. F., the inscription to be engraved upon the cup after the contest. This cup is worth $75. The successful club may well be proud of it.

Everything at this end of the line in connection with the convention is progressing satisfactorily to the local club. The various committees are hard at work with but one aim in view—success.

Mr. Hale and his committee on printing are highly pleased with the progress being made on the souvenir; it is now in the hands of the printer and is to be ready August 1.

The cut flower trade is at a standstill at present. Flowers plentiful but poor in quality. Weather very warm with plenty of rain, making a fine growing season and causing the many flower beds throughout the city to look unusually well.

Mr. Wm. J. Stewart, Sec'y S. A. F., made a flying visit to the city last Sunday, leaving early Monday morning. Convention matters brought him here.

C. LESLIE REYNOLDS.

Boston.

A week of extreme dullness in the cut flower trade. Roses in general are of poorest quality. Souvenir de Malmaison is about the best rose coming in at present. This is always a good summer rose. Carnations are getting quite scarce, but the demand is so light that the scarcity is not noticeable, excepting by the boy who has to empty the rubbish barrel and finds it not so heavy as formerly. Sweet Peas are still plentiful and the street fakirs manage to get rid of a very large quantity of them. Pink pond lilies somewhat overstocked at present. Achillea, gypsophila, candytuft, stocks and other summer stock is coming in by the bushel. The new achillea "The Pearl" is received with considerable favor.

Tickets to the Gardeners' and Florists' Club picnic have been set at $2.50 for gentlemen and $1.50 for ladies, including dinner at the grove. A large turnout is expected.

Saturday, July 16, was hollyhock day at Horticultural Hall. The finest blooms came from J. S. Fay and N. T. Kidder, the prizes being all awarded in that order. One of the most interesting features was a very complete collection of wild flowers from Mrs. P. D. Richards. John L. Gardner showed some nice plants, among which were Ixora Williamsii, Dendrobium Dalhousianum and Platyclinis filiformis, the latter bearing 62 spikes of flowers.

The creditors of J. P. Clark have held several meetings, W. H. Elliott, John D. Twombly and John Fee being appointed a committee of investigation. Mr. Clark offered 15% in settlement. This has, after consideration, been refused by the committee, who recommended a settlement on the basis of 25%. Most of the creditors have already agreed to accept the latter proposition and it will probably go.

It has been arranged that the New England delegation to Washington will leave Boston via the Fall River line at 7 p. m. Sunday, Aug. 14, joining the New York delegation at Jersey City, from which place a special train will convey the entire party via the Penna. R. R.

The price of tickets Boston to Washington and return will be $11.84. These special tickets will not be on sale at any of the offices and can only be obtained from Wm. J. Stewart, 67 Bromfield street, Boston, who will also, on request, secure state room accommodations on the steamer Pilgrim for the above date.

The neighborhood is on a broad grin at the expense of two clerks in one of the large retail florist stores, who have been patrons of the Louisiana lottery and whose friends represented to them that the tickets which they held had drawn a prize. Congratulations poured in continuously over the telephone and the two



VIEW IN THE GROUNDS OF H. H. HUNNEWELL, ESQ., WELLESLEY, MASS., OVERLOOKING THE ITALIAN GARDEN AND SHOWING THE RECENT IMPROVEMENTS THERE.

victims enjoyed for an hour or two the sensation of being rich.

On Thursday evening, July 14, occurred the wedding reception of Mr. Morris F. Comley at Lexington. The young man is the son of Mr. James Comley, the genial gardener on the F. B. Hayes estate, and is his assistant on the grounds. The occasion was most enjoyable and the hospitality, as in all cases where Mr. Comley has sway, unbounded.

Visitors to Boston the past week: Walter Helms, Janesville, Wis.; W. H. Moon, Morrisville, Pa.; Thos. Meehan, Philadelphia; W. C. Barry, Rochester, N. Y.

In response to a call about 25 cut flower growers met at the Quincy House to form an association or cut flower exchange.

Temporary organization was effected as follows: President, W. C. Stickel; Vice-President, Geo. Cartwright; Secretary and Treasurer, W. W. Tailby.

The president and secretary together with Messrs. Knapp, Zirngiebel, H. Cartwright, Robertson and Kidder were chosen directors and instructed to prepare and bring in a draft of constitution and by-laws at the next meeting. A paper was opened for signatures of those willing to take stock in the proposed corporation and was signed by nearly every individual present.

New York.

Mountain rhododendrons are to be seen about the city.

Flowers are generally pretty good, in spite of hot weather. American Beauties are an exception, however, most of them being very poor. Sweet peas are still extremely plentiful, and are likely to continue in quantity as the successive crops come in. Pink is the favorite color, Blanche Ferry being considered the best, while Princess Beatrice comes next in favor. McMillan, of Pearl River, N. Y., is sending in particularly fine sweet peas, this flower being a summer specialty with him.

Among funeral orders recently filled by Alex McConnell was one calling for a floral casket. The foundation of smilax was lightly covered with La France roses, fringed with adiantum and Niphetos roses. Among other designs in the same order were several large wreaths, one being entirely white and lavender sweet peas and adiantum tied with a white sash. Another was of white sweet peas and Bride roses. Sweet peas being so graceful in themselves are applicable to all sorts of decoration.

Some pretty little glass bowls painted in floral designs were noted at McConnell's; they make appropriate gifts when filled with natural flowers harmonizing with the painted decoration.

A few of the pink Cape Cod lilies are to be seen occasionally.

Siebrecht & Wadley display some fine Cattleya gigas, which they are now blooming in quantity.

Among the ornamental baskets displayed by Scallen are some large canoes, very nearly the size of the real article; they are white and gold with crossed paddles. Another basket, novel and showy, is in the shape of a swan.

The Spaulding trophy to be bowled for at Washington is now to be seen at Whiting's, the well known silversmith's. It bears a spirited design, extremely well executed. Its future destination will be a matter of great interest to the competing clubs.

Asters are now coming in, but in small quantities. They are very good. Gladiolus and Lilium auratum are plentiful. Steamer work still continues, quite a few New York orders being received from the west.

Chas. Henderson is making his home in Hackensack until the completion of his new residence at East Hackensack.

Mr. Joseph Rolker has gone to the Sandwich Islands. Wonder whether he can talk the language of that country?

Business is about at its lowest notch now, stores and commission houses both being deserted.

Buffalo.

Your correspondent feels too much broken up, or rather broken down, to write many notes this week. But he has an item all the same. On Friday afternoon a dark cloud appeared in the western sky and it was larger than a man's hand when first discovered. By 6 o'clock an electric storm was on us and about us with great fury. The wind was terrific and the hailstones which fell for nearly 10 minutes were beauties of their kind. Nine out of ten people who witnessed the storm say the hailstones were the size of the proverbial hens' eggs. But eggs, like the hens, differ in size. I would say an English walnut was a fair average size of those I saw. But there were several picked up that measured 2½ and 3 inches

long. The hail storm was quite local and being worst in the Cold Spring region, or a little north of it, and here is where most of the greenhouse establishments do congregate. Mrs. D. Newlands and Wm. Legg lost about half their glass. Wm. Scott nearly one third (or about 8,000 feet). Other sufferers are C. F. Christenson, James B. Milley, J. H. Rebstock, William Belsey, James Buxton and Theodore Frank. Others have lost a little but not of any consequence. I am afraid there was but one of the above who was insured. Now there may be a scramble for insurance. Others will say, "Oh, this won't occur again in 20 years." To those I would say, please remember this is twice in two years we have had such a visit. The writer remembers to his sorrow the bad "knock out" we got June 12, 1890, although it was not so severe as this one. Further particulars in my next.

G. S.

Toronto.

Possibly some of your readers who attended the convention here last year paid a visit to the Central prison (I don't mean to insinuate that the visit was involuntary), the extensive grounds of which are under the care of Mr. Wm. Houston. The flower beds are simply gorgeous just now and promise to be better still. Mr. H. goes in for bedding in all styles—carpet, subtropical, ribbon and mixed borders. A bed of tuberous begonias in the full sun was planted this year as an experiment, and it bids fair to be successful; the plants have not scorched so far.

The large lily pond, though, is the greatest attraction in the gardens. It is heated by the exhaust steam from the engines that run the machinery inside the prison walls. The lilies are now beginning to flower freely. Nymphæa marliacea chromatella and candidissima were just "too lovely for anything." N. Devoniensis, Zanzibarensis, dentata, rubra, flava, scutifolia, etc. were all doing well and beginning to bloom well. A Victoria regia in the middle of the pond seemed to be growing well, but it is doubtful whether it will "get there" before the cool weather comes on in the fall. It will be something to talk about if it can be grown successfully in the open air in Canada.

In the greenhouses there is so much of interest that one scarcely knows where to begin. The big palms and the little palms all look so luxuriant. There is an old thrinax which the writer has known for over 20 years; it has been through more vicissitudes than any tramp in the country. It is now trying to lift the roof off the house, and with the assistance of an Areca rubra it seemed as if it might succeed. There were also two Phœnix dactylifera, regular old stagers, and a Latania borbonica reaching all across the house. Smaller palms of all the popular sorts filled up the spaces. There was also an immense Pandanus utilis in this house and a large well grown Alsophila australis, hard to beat for its age.

In another house of stove plants were fine specimens of Alocasia Thibauti, A. metallica (very fine), fancy caladiums, Dracæna A. Laing, Pteris Smitbiana, P. Wallichiana, Davallia hirta cristata, D. Mooreana, Adiantum Williamsii, A. formosum and many others. There is also a large collection of orchids here, but of course at this time not many were in bloom; all, however, looked the picture of health.

Mr. Houston is going heavy into chrysanthemums this year and is growing specimens of most of the new sorts. He has also many good plants from seed, and three or four benches planted the whole length of the house. Another house is almost entirely devoted to tuberous begonias. There are some plants and sorts that could not be beaten anywhere. Well, when one gets among a collection of plants like this it is hard to leave off talking about it, but as I have some modesty left yet I will not trespass further on your space this time.

Next week the annual summer show will be on, of which I will endeavor to send you a full account.

E.

Baltimore.

The club meeting was well attended and ten new names were added to the roll, nine of them being passive or associate members.

A motion to alter the name of the club from "The Gardeners' Club of Baltimore" to "The Florists' Club of Baltimore" brought out a flood of eloquence for and against. Mr. W. B. Sands was easily orator of the day and quoted the Bible, Shakespeare, Tennyson and numerous other authors to show that "gardener" was the older and nobler title. President Fraser followed with an effort only inferior to Sands on the same side. Needless to say the motion was lost.

Another motion that provoked debate was the proposition to have the two items of mantel and table decoration in the fall show united in one dining room decoration with large premiums. The majority of the club thought the decoration would be too large for general competition and that was dropped.

Then the date of the exhibition was the subject of prolonged debate, the committee recommending holding it on Wednesday, Thursday, Friday and Saturday, Nov. 9, 10, 11 and 12, with a sacred concert for some charitable institution on Sunday, the 13th. Some of the members said: "Hold it on Tuesday in spite of the presidential election." Most of them were opposed to the Sunday concert, so it was decided at last to hold it the week after, viz., from November 15 to 18 inclusive.

The first question in the question box was: "What is the best soil for fancy caladiums?" Answered by Mr. Seidewitz: "Peat, loam and well rotted manure."

"Best tomato for greenhouse forcing?" Lorillard, Dwarf Champion and Acme were named.

"Can anything be done to prevent alternate gluts and scarcity of flowers?" Mr. Ekas supposed the mutual consent of all the florists in the United States to grow certain quantities of certain things would be necessary. Mr. Moss thought the greatest gluts of roses occurred in the fall during chrysanthemum time and strongly advised pinching off all buds until after that time. Mr. McRoberts suggested that the consent of the florists in the city would regulate the trade here and be a starting point for getting all the florists in the United States. A list of the stuff to be grown by members would be of very great advantage. Mr. Seidewitz did not approve of the list, as he thought many would grow what they found shrewd growers were going into and consequently make things worse. Thought a wider market and growing specialties the best remedy.

Mr. Cook was invited to give his method of firing with coal screenings, but referred the club to Mr. H. C. Vogel, from whom he had learned the plan, and the secretary was requested to ask Mr. Vogel to give the club an account of the matter at the next meeting. The club then adjourned.

Business in town remains much the same, i. e., dormant, if not dead.

MACK.

Chicago.

At the last meeting of the Florist Club the report of the committee on transportation to Washington was accepted. As previously announced, the trip will be made over the Pennsylvania R. R. The train selected will leave Chicago at 3 p. m., Sunday, August 14. Will reach Pittsburg at 8 o'clock Monday morning, giving a daylight ride over the Allegheny Mountains and arriving at Washington at 5 o'clock Monday evening. A sleeping car with a buffet has been reserved for the party. The Milwaukee party will travel by same train in a separate car which will reach Chicago in time to be coupled on to the train bearing the Chicagoans. Several florists from other points in the west and northwest have signified their intention of meeting here and taking advantage of the low rate secured from here, and others will be picked up on the way. We shall probably meet the delegates from Cincinnati and Indianapolis at Pittsburg.

An interesting feature of the club meeting was some observations upon the pronunciation of latin names by Mr. F. F. Benthey. Mr. James Davis was elected to membership in the club.

At the quarterly meeting of the Horticultural Society of Chicago, held last Saturday afternoon, there was a lengthy discussion upon the best means of making the coming exhibition an overwhelming success. The question of continuing the show for two weeks, changing the features several times, was talked over and will be further discussed at the next meeting of the Executive Committee. An addition made to the premium list, and that promises to bring out lively competition, is a special prize of $200 for the best general display of cut roses, competition to be open to everybody. There will be no restrictions whatever. All the judges will consider will be the variety, quality and quantity of the flowers shown, regardless of where they were obtained or who grew them.

On the president's table were a vase of beautiful blooms of Iris Kæmpferi, of very large size, from Mr. W. C. Egan, and a vase of very handsome double poppies from Dr. Kennicott, which excited much admiration from those present.

Business is so nearly dead that it is not worth mentioning. Plenty of flowers, such as they are, but precious little really good stock.

The bowling contingent of the Florist Club will play another series of practise games next Friday evening (July 22) at the Superior Alleys, corner of North Clark and Superior streets, beginning at 8 o'clock. Some of the boys are developing upward and some downward.

Among recent visitors to the city were Mr. J. H. Brazendale, representing Thos. S. Ware, London, and Mr. E. G. Hill, Richmond, Ind.

WE HAVE received from Mr. T. J. Oberlin, Sinking Springs, Pa., a flower of Richardia alba maculata with two spathes.



Philadelphia Notes.

Robert Craig is a strong believer in the chrysanthemum. A number of houses are already planted with choice varieties and an assortment of the newer kinds is set aside, waiting on a large carnation house which will not stop blooming. They are all planted out on benches for cutting next fall. In conversation with the writer he said:

"For the best early yellow I will plant Mr. J. J. Whilldin, which I consider better than Gloriosum. I think that Mrs. Whilldin will prove to be much the better seller of the two. Will grow a table of Le Neige; it always does well with us; it is the best early white yet. Emperor of Japan I consider is a good one; it is a small incurved white of perfect form, nice enough for a bride to carry.

"We have planted very largely of Jessica for early, and will have a lot of Ivory to cut from later.

"This whole table is Mrs. Maria Simpson, for specimen plants of which a $100 cup is offered at the next chrysanthemum show of the Penna. Hort. Society. I think it is a fine variety.

"There is a lot of Frank Thomson (not Mrs. F.), but like it only pure white. These two tables are all Ivory. You see they have all their foliage. We try to prevent their ever getting checked. If once the wood gets hard they don't do so well. We are getting to understand them better every season.

"There's Minnie Wanamaker—put that down—and John Goode; Mr. Asmus has a whole house of it. It is a lavender with center of lemon yellow; No. 1 in every respect.

"All that lot is Lincoln. We tie to Lincoln. No use talking, it is one of the best. And of Widener, we grow a lot as well.

"Mrs. R. Craig is an incurved white, of which we think a great deal, and there's Mrs. Geo. Bullock, a fine variety. This lot (a lot of rooted cuttings in boxes) we expect to flower; they are in fine shape and will keep right on.

"There is a choice selection in this house, Ada Spaulding, Lilian Russell, Mermaid (which won a cup in New York) and Mrs. J. N. Girard, which came very near it; all fine varieties.

"For very late we have Mrs. L. C. Madeira, or Golden Ball. This is one of the sensations of last season and has a place all by itself.

"I think there will be more chrysanthemums sold this year than ever. My stock of plants is about exhausted; I did not have enough of some varieties."

W. K. Harris, who has raised and sent out so many fine chrysanthemums, has a very large stock and they look well. He is as enthusiastic as ever and has a fine batch of seedlings, crossed with great care. The seed has been kept separate, so that it will be possible to tell the parent plant on one side at least.

For his early yellows he says: "I have a house of Eldorado which I think is a grand variety. In my opinion all the other early yellows will have to take a back seat while this one is about.

"Glory of France I have for early pink. I like Minnie Wanamaker and have a good batch of it, also lots of Lincoln, but very few Widener. Why? Well, because everybody else is into it, and then I believe it is running out; it is not as good as it used to be. Some varieties go that way, fine for a year or two and then they have to be thrown away.

"I grow a great many Ivory. I find it to be the best all round white. I believe it to be the best white ever raised. For a pot plant it is a gem.

"I give my attention mostly to late varieties. For late white I like Mont Blanc. It is not a perfect flower, but bold and striking and sells well. Yellow Mont Blanc, a sport of the white, is a great favorite. I have never sent it out and don't think I shall.

"I am strong on yellows. After Eldorado and Lincoln I have Eva Hoyt, which is one of the finest I ever raised, and for the latest of all Mrs. H. A. Pennock, a very fine variety. It is a yellow 'Violet Rose' with a very strong stem. I like Mrs. W. K. Harris for a medium yellow.

"I give my late varieties quite a little heat; they seem to need it to open their flowers properly.

"It seems to me that over in Japan they raise most of their chrysanthemums from seed. In the first lot imported by H. Waterer the plants were done up in bundles of six or more, each plant in one bundle having the same number. This led us to suppose that there were six of a kind, but they turned out to be all different or nearly so and a great many were worthless.

"I have raised a great many seedlings, in some of which I have been much disappointed and in others greatly surprised. We used to condemn a plant the first year if it did not show up well; now if it is at all promising we keep it over and give it another show.

"I did not think much of Ivory the first year and sold it for a song, but the next season found it was a prize.

"Violet Rose was another; I think I sold the stock for $15. It did not develop until the second year.

"L. Canning, Mary J. Thomas, Elkshorn, Mrs. Irving Clarke, Miss Mary Wheeler, Dr. Stricker, Mrs. A. Blanc and a number of other good ones were among a lot of thirty I sold for $300.

"John Goode and I. D. Sailer brought $100 each. The highest price I have obtained for a seedling so far is $250 (for Eva Hoyt). Mrs. Wm. Bowen, a very good one, I could not get a bid on the first season, but when it developed the next year I could hardly propagate enough for the demand.

"I believe chrysanthemums will grow in popularity for a long time to come."

K.

Notes and Comments.

A little idea recently noted, where a lot of troublesome pipes for greenhouse heating were being put in order, was the use of Portland cement for joints. It could be put in places where it was next to impossible to caulk securely with oakum and red lead, making a very sound and water-tight joint. The cement was found very useful in overhauling old runs of pipes.

Among roses coming into the market in the summer Bride and La France may be named as first favorites. Beauty holds its own when good, but poor Beauties are never of any account, either in price or selling qualities. This month selected Brides and La France have been the leaders whenever good roses were called for. Most of the roses coming into the New York market at this season are from young stuff, early planting being the rule now with most growers. Planting is usually begun by the 15th of June, comparatively few plants being retained from season to season. Small teas seem very much out of date; though few flowers excel the fragrance and delicacy of old Safrano and Bon Silene one rarely sees them now. Apparently Goutier is not being very largely planted either. Growers find that the same space when planted with the larger hybrid teas brings far better returns, so there is little inducement to plant the smaller sorts, in spite of their excellent qualities. English journals often speak of Ma Capucine for boutonniere use, but in spite of its charming color it has never held any vogue here, chiefly because it is too small. There is a marked difference of opinion regarding market flowers between this country and Europe, many things salable there being little called for here, and vice versa.

A batch of fine eucharis recently noted were planted out in a corner bench where they could remain undisturbed. This plant is always the greatest success when planted out instead of remaining in pots. In such a situation it is of the greatest use in a commercial place, where it may be cut as needed. It will do well in any odd corner of the palm house. A knot of eucharis and adiantum on an ivy wreath is a simple funeral design much admired for an aged person.

A good idea seen in country house weddings or entertainments is to turn the large piazzas into promenade conservatories. They are closed in with awnings and then arranged with palms and decorative plants. Cut flowers are not admissible in such places, the aim of the decorator being to give the impression of a conservatory entirely.

A few good gardenias are to be seen in the market now, but unfortunately they come at the very deadest time of the year, so there is little to be gained by them. If they were in flower when all New York is in town they would doubtless find ready sale for boutonnieres among the young men desirous of emulating the "Gardenia Brigade" in London. This flower is just right for the London florist, blooming at the fashionable season.

Outdoor Lilium candidum seems quite plentiful and is a useful thing. Being so thoroughly hardy and liking an undisturbed situation it will be found very handy for the retailer with a local trade, as the blooms will be ready for use after forced lilies are over. Naturally they do not realize much in the city market, coming in at the dull season.

Some very noticeable new strains in zinnias give a showy effect in bedding and are found useful by the trade. We see some at times making a very fine show in large boxes and vases.

Speaking of vases, it is amazing to see the change in some of the city bedding during the past month. Since people have gone out of town the plants are neglected, and their appearance tells the fact. Again, in some cases the stuff has grown quite fast at first and is now showing the effect of over crowding, the stronger plants smothering the weaker ones. Geraniums, ageratums and lantanas look best among the flowering plants, keeping their freshness and blooming abundantly. Among foliage plants,

crotons, aucubas, phormium and the various palms keep in perfect order. Begonias are in good order generally, and so is heliotrope. Boxes filled with marguerites, which were charming early in the season, are now hopelessly shabby in appearance. The vines generally used seem to do well unless greatly neglected. The vinca seems a success even on the really dusty thoroughfares. Some of the coarser ferns were used in mixed vases, but they do not last at all, and their use is not advisable in these exposed situations. Some nice little rhapis look well in vases and bear exposed situations well. Most of the city bedding is planted for immediate effect, and through lack of care it looks quite used up by midsummer.

EMILY LOUISE TAPLIN.

THE THEORY OF DESIGN IN DECORATION

BY F. SCHUYLER MATHEWS.

IV.

Asparagus Plumosus and Smilax.

Two very graceful and delicate vines which adapt themselves to the purposes of room decoration with most charming results, are the Asparagus plumosus and the smilax.

The two vines are entirely different in structure and appearance, and on this account they should receive very different treatment from the decorator's hands. The fern-like leaf branches of the asparagus are not adapted to *all* uses, and the delicacy of the smilax, stem and leaf, is something which is very often ignored, when the opportunity comes to display it advantageously.

Now, I believe that it is a matter of custom to "throw in" a spray of smilax with the box of flowers which the young lady has ordered, and this very fact to my mind, points decidedly to the habitual inconsistency of the florist who counts a flower, a flower, and a bit of green, green, without taking into account the inseparable and absolute relation of the flower to its *own foliage*. The bit of smilax "thrown in" is all right in its proper sphere, but it can never take the place of the foliage of the Jacque rose, or that of the Wilder pink. This principle of consistency, therfore, is what I wish at the start to emphasize most thoroughly. The consistent use of asparagus, smilax, laurel or any other greens, for decorative purposes, must result in harmony and good taste, whereas the use of such material *ad libitum* must end in a tasteless display of flowers and greens, with about the same mechanical arrangement as that familiar to us on the sample card of colors which the house painter gives us to make a choice from.

All mechanical arrangements, artistically speaking, are abominations. A mass of flowers packed together with an even width smilax border, is unmentionably bad. A group of asparagus arranged with regularity, and the vine-character completely hidden, is equally bad; even a piece hung from a high point and trailing downward in a curve, with the stem hidden, is not a proper method of displaying the graceful lines of this beautiful vine; all this for excellent reasons. Nature does not do anything mechanically; she does not hide the structure or character of her plants, and she does not produce any effects which are unnatural.



Fig. A.

Aside from any decorative work which is free and spontaneous, and therefore nearest nature's methods, there is the other principle which imposes decided restrictions on all decoration, i. e., conventionality. Both are correct, and both are beautiful, but both adhere absolutely to nature's truth. That conventionality which does not bear on its face the unmistakable stamp of naturalness, breaks the principle of truth and good taste, and therefore is not beautiful.

In figure A and B, we may observe what is conventional and yet perfectly natural. The festoon, I have previously drawn attention to, as a legitimate means of decorating a room, with what is pleasantly repeated. Without the ribbon of a lighter or much darker color, I question whether the festoon is quite natural; because, as I have stated in one of our first articles on decoration, the structure, or arrangement, of all ornamental detail, must be plainly visible. Nothing

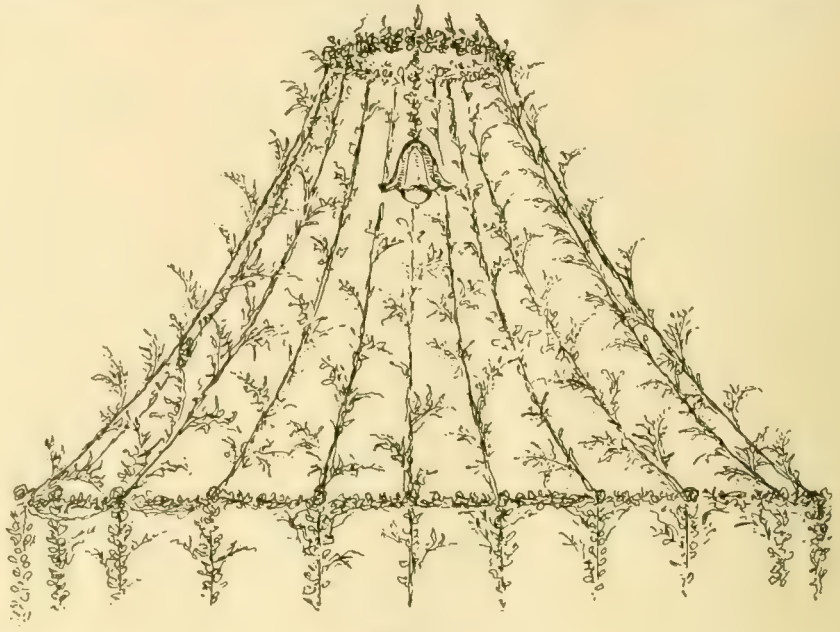


Fig. B.

is better adapted to festoon work than the smilax. It is dainty and graceful, light and airy; and in a room where the Colonial principle in design is present, it is exactly in place. I do not think I can emphasize too strongly, the graceful beauty of the festoon when it is worked out in the way I have pointed to in a previous article; everything said there in reference to the conventional festoon will be applicable to the use of smilax in such work. Let me repeat again, we must beware of crossing our curved lines, and interfering with the structural lines of architecture.

Figure B, is in every particular conventional, yet it is perfectly natural; the lines of asparagus stems are gracefully displayed, and the structural quality of the whole design may be seen at a glance. It may possibly look old-fashioned to some, but that is neither here or there when we are discussing good taste and beauty in

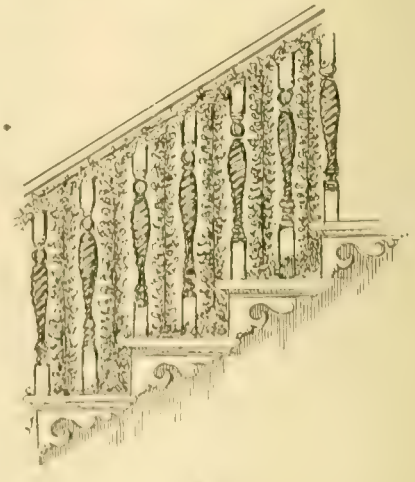


Fig. C.

design. There is no such term as "old-fashioned" in the school of art!

"A thing of beauty is a joy forever;
Its loveliness increases."

Everything Colonial is old-fashioned, everything Colonial is rapidly being revived, and most everything belonging to



Fig. D.

Colonial times in architecture, is lovely.

The canopy shape of Fig. B is peculiarly adapted to certain uses which it is unnecessary to specify. Indoors or out, it is very beautiful if carefully constructed. The lower part of the affair is simply an adjustment of wooden sticks about as large around as one's finger. The whole can be fastened together by screw-rings and rings, and folded together like a Japanese screen. The arrangement of pots



Fig. E.

of lilies (all around the lower half-circle), standing between each smilax twined stake, is easy of accomplishment, and many things will suggest themselves to an artistic mind for the adornment of such a design. Electric lights suspended from the circle overhead and perhaps distributed among the climbing foliage here and there at the sides, will greatly enhance the beauty of the affair at night.

Fig. C is *one* way (there are many others equally good), of decorating a stair case, and showing the structure without any interference by the added greens; a continuous line of smilax, held in place by a continuous line of fine wire, will do the work in the simplest and best way. The hand rail should be *bare;* there is no reason why it should not retain its character of usefulness. If the banisters are pretty there is no good reason why they should be hidden completely with the greens.

If the newel post is like our sketch in Fig. D, there will be a fine chance to use asparagus tastefully in its adornment. Ferns, there are in plenty at this time of year, and nothing seems to me so beautiful as their conventional leaf when displayed to advantage in decoration. The fern must always look well with the asparagus, because one belongs in mid-air, and the other never any where else except at one's feet.

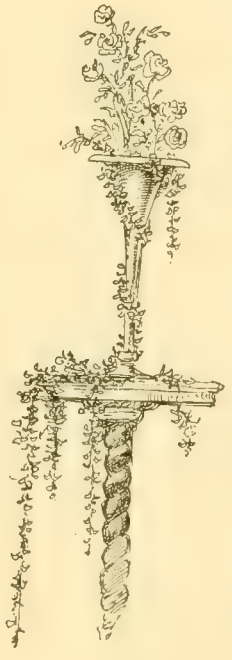


Fig. F.

We have already learned that there is nothing to be gained artistically in the use of any greens, representative of portieres, etc. Yet, if one wishes to screen off a certain portion of a hall-way, or to hide partially, the musicians, behind a graceful curtain of green, what is at once more beautiful and natural than the asparagus trained in the way Fig. E suggests.

If we are to follow nature's methods, we must twine her vines, and train her bushes in the way *she suggests*, and not start out with the preconceived notion of *what is going to look best* according to our narrow and somewhat egotistical point of view. I believe that fully one-half of the wretched and unjust criticisms, we, who are artists, have to suffer from, is developed from preconceived notions of the beautiful existing in the minds of our critics. Precisely the same evil brings about the ugly and unnatural results, when the artist or decorator makes up his mind about a thing, without regard to nature's suggestion and truth.

A little vase of roses, like that sketched in Fig. F, shows how a bit of smilax can be used around it in a perfectly natural way. There are fifty ways to use the smilax here *un*naturally, but nature would suggest perhaps only one.

Too much arrangement in flower decoration is worse than none at all; if one would stop about half way, when decorating a room, without doubt there would be more chance of artistic results. Neither smilax nor asparagus need deep study in the methods for treating them artistically. It is a fact, that if we should observe closely their habits in greenhouses or out of doors, we would learn the most important things about their use in decorative work. In any event we must not forget that their greatest charm lies in their gracefulness; and if we hide this, we will fail utterly in their use artistically.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

H. AUGUSTINE, Normal, Ill., president; Z. K. JEWETT, Sparta, Wis., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A WHITNEY, Franklin Grove, Ill., treasurer. The Eighteenth annual meeting at Chicago, June, 1893.

Trees and Shrubs in Bloom July 15.

CATALPA BIGNONIOIDES was at its best a week ago, but now half of its flowers have fallen. What a beautiful tree this is when in bloom, and what a mess making tree it is 365 days a year! Even its last year's seed pods have not yet all dropped off. Teas' hybrid catalpas are in fair bloom yet and have been for ten days. The Japanese C. Kæmpferi is about done blooming.

KŒLREUTERIA PANICULATA, a small broad headed tree from northern China, is still in fine bloom; indeed it is now the most showy tree in flower in our grounds. It has very large panicles of small yellow flowers. Some of the trees were in good bloom a fortnight ago and others are barely in bloom yet.

AZALEA VISCOSA, the charming white azalea so common in the eastern swamps, is now in the pink of perfection, and although a denizen of wet swamps, it thrives admirably in ordinary garden ground. It also keeps in bloom longer than the Ghent azaleas of six weeks ago. A. arborescens of the Alleghenies is on the wane.

STUARTIA PENTAGYNA is in magnificent bloom. Those of you who have never seen a big bush of this American shrub in full bloom could scarcely credit that we have got such a showy plant in flower in the middle of July. Its flowers are white, flat open, single, over three inches across, and hundreds of them are open at one time.

CORNUS SIBIRICA blossomed full some time ago and now again it has a good second crop of white cymes.

WISTARIA CHINENSIS always makes an attempt to bloom twice a year, but this, its second crop, is a feeble effort. The Japanese or American species do not.

CYTISUS CAPITATUS shows a good many old brown flowers; at the same time it has a good showing of clear yellow ones.

POTENTILLA FRUTICOSA keeps in bloom.

IF RUBUS ODORATUS weren't such a weed it would be more desirable, for it flowers well and for several weeks and doesn't object to a shady place to grow in.

JASMINUM OFFICINALE has lots of sweet white flowers, and the

COLUTEAS are laden with bladdery pods and a good sprinkling of yellow and tawny blossoms.

MAGNOLIA GRANDIFLORA is giving us a few flowers still, and what lovely blossoms they are too!

CLEMATISES JACKMANI, crispa and coccinea are fine and make quite a show. They do well when cut to the ground every year like a common herbaceous perennial; indeed, this is the proper way to treat coccinea.

ABELIA RUPESTRIS is in good bloom. From Baltimore southward it is perfectly hardy, but here it is not. I lift the plants over winter and heel them into a cold pit.

INDIGOFERA DOSUA is prettier and fuller now than when I reported it a fortnight ago.

SYMPHORICARPUS.—Various kinds are in full bloom, and some, as mollis and occidentalis, make a little show in this way; it is for their colored fruit in fall, however, that all are planted.

AMONG HARDY HEATHS we have now in bloom Erica Tetralix, noted a fortnight ago, E. vagans, or Cornish heath, and its varieties. The common heather, Calluna vulgaris, the thriftiest of all, isn't quite in bloom yet. These are charming little plants where they do well, but they need a good place and a little extra attention. An enthusiastic amateur who was here the other day told me he planted 300 heaths last fall and everyone is dead. Now, don't condemn the heathers on that account.

CEPHALANTHUS OCCIDENTALIS, the button bush of our swamps, has spherical heads of small white flowers now in bloom. Although the flowers are not strikingly beautiful, they are attractive, especially so late in the season as this is, and the bush has fine bold foliage. The plant thrives well even when the sea water reaches up to it now and again, and although it often inhabits partly submerged swamps, it thrives well with us in the garden.

ÆSCULUS PARVIFOLIA, the dwarf horse chestnut, has come into bloom. It is indigenous to the foot hills of the southern Alleghanies, but perfectly hardy in the north, and strange it is, while it is a very rare plant in a wild state, it is quite common in cultivation. From the end of every shoot arises a long spike of white flowers with long exserted stamens and anthers.

CALLICARPA PURPUREA is a small shrub with small axillary cymes of purple flowers now in bloom. When in flower it has no special beauty; its great attraction is in its showy purple berries in late fall. This is the shrub that Friend Temple of Iowa grows as a pot plant to mix with his chrysanthemums in the greenhouse in November, when he sells it for $5 a piece, it is so beautiful when in ripe fruit.

THE OAK-LEAVED HYDRANGEA is in splendid bloom. Thunbergii is fine yet and the early flowered form of H. paniculata is at its best. Otsaka grown in pots or tubs and wintered in the cellar and not forced, but placed outdoors in summer, is very fine now, but its flowers like shade from warm sunshine.

SHRUBBY HYPERICUMS, or St. John's Wort, are now coming into nice bloom and they are very pretty for the first fortnight of their blossoming period, but after that their brownish decaying flowers and brown seed vessels give the bushes an unkempt appearance. The plants vary in size from 18 inches to 4 feet high and are broad and bushy; all have yellow blossoms and are exceedingly copious. H. prolificum, H. Kalmianum, H. fasciculatum and H. aureum are the species we now have in good bloom. The first two are common in cultivation, the third we had from N. Carolina, and although it has not been generally tested, we find it perfectly hardy here and exceedingly free blooming. H. aureum is the largest flowered of the four and quite handsome for a while, but when the dying flowers and ripening seed vessels begin to thicken upon it they give it a very seedy appearance. During the past ten years this species has had a vast amount of praise showered upon it, but in my opinion it is a very much overestimated plant. Several other species, as patulum and calycinum, are only herbaceous.

LESPEDEZA BICOLOR is in good bloom. It is a hard wooded shrubby plant 6 to 9 feet high, with wiry branches, small trifoliolate leaves and ample airy compound racemes of red-purple pea flowers. The habit is more upright than bushy. A valuable shrub on account of its late blooming tendency, profusion and lasting in bloom so long. It ripens seed in great quantity. A native of northern China and Japan. In the Dictionary of Gardening you will find the above name used as a syn. of Desmodium penduliflorum, but Nicholson was wrong. The two plants are very unlike one another in nature, habit, time of flowering and general appearance. The proper name of the plant we call Desmodium penduliflorum is Lespedeza Sieboldi.

MAACKIA AMURENSIS was in its best bloom a few days ago. It used to be called Maackia, then Cladrastis, and now I believe it is referred back again to Maackia. It is a little tree 10 to 20 feet high and just now every branchlet is terminated with a long, dense, upright raceme of purplish white flowers. The plant is a surface rooter and should be grown in good, moist land, else the pinnate leaves which are never too luxuriant will become pretty scrimp. Not a showy plant, simply valuable for its late blooming nature.

ROSA FOLIOLOSA is a real pretty, single, white flowered spreading pigmy from Texas and other southwestern parts, but perfectly hardy here. It never makes an old stemmed bush, in fact the stems are biennial, the plant spreads into a broad mat and seldom grows over 18 inches high. It has pale green leaves and rather smooth stems and its flowers are produced singly at the end of each stem; they do not appear with us till the end of June, but for a month or more the plants assume an everbearing nature. A splendid plant for rockwork.

ROSA WICHURAIANA is a little Japanese rose that has made quite a stir among planters during the last two years. It is a running rose, that is, its nature is to spread out flat upon the ground and not climb up into the branches of trees or over bushes like a prairie rose, and landscape gardeners are using it in quantity to spread over rocky and bare surfaces as a change from ampelopsis, bear berry clematis and the like. Its leaves are small, very plentiful, deep green and quite glossy, and just now the carpet of rose bush it forms is studded all over with sweetly pretty, little, single white roses which will last well through July. It is exceedingly vigorous and likes good ground and an open situation and always hugs the ground flat, it doesn't squirm about like a dewberry.

THE PRAIRIE ROSE (Rosa setigera), single, was in perfection a week ago. Even that veteran Trumpey when he saw it here a few days ago declared it was the finest hardy rose he had ever seen. And it is simply the old, wild, Michigan rose.

BUDDLEIA JAPONICA and B. Lindleyana from China are in full bloom. They are rank shrubs with a soft pithy growth, and every branch is terminated by a long drooping or arching raceme of lilac-purple flowers. They are not handsome, but admissible on account of their lateness and free blooming tendency. What is now called Japonica used to be named recurviflora, which is a different plant, a native of the Loo Choo Islands, and not hardy here. Although we grow B. globosa, which is common in cultivation in Europe, it is not hardy here.

SPIRÆA DISCOLOR VAR. ARIÆFOLIA, sometimes called Holodiscus discolor, is a native of the Pacific slope from California to Washington. It is an elegant shrub with white, fleecy flowers in terminal much branched panicles. It was in its finest condition a week ago and is on the wane now. It is not very hardy here and every year it gets injured a little by the winter; it is not the intensity of the cold, however, that seems to ail it altogether, for it lived at Cambridge, near Boston, with me just as well as it does here. It would appear that the same perversity we experience in growing the conifers of the far west is also peculiar to this graceful spiræa.

SILVERY LEAVED LINDENS.—What is generally known as the silvery leaved linden is Tilia argentea, and the weeping or drooping branched silvery leaved linden, often regarded as a variety of argentea, is a distinct species and called Tilia petiolaris. Both are European trees and both were in finest bloom a week ago, and even now their waning blossoms scent the atmosphere with delightful fragrance. Splendid trees both of them and they do well here. WM. FALCONER.

Long Island.

Time of Opening the Convention.

In the interests of the delegates to Washington generally would it not be much better to have the first session on Tuesday afternoon instead of in the morning? At every convention so far a large number of members did not arrive in time for the first session. But have the opening in the afternoon and it gives time to get to your hotel and get settled a bit and a chance to hear the president's address and the other speeches. What is the opinion of other members on this? Now is the time to speak. J. B.

[Now that the program has been printed and issued any change for the coming meeting would be unwise, but no harm will be done by considering the matter now that a change may be made in the time for opening subsequent meetings in case it is deemed desirable by a majority of the members.—ED.]

UTICA, N. Y.—At the business meeting of the Utica Florists' Club, held prior to the banquet previously reported, six new members were admitted to the club. We are still progressing and gaining in strength.

LAST CALL for photographs for our convention supplement. Send in at once if not already done.

SEND in your advs. for our convention supplement early and thereby oblige the publishers, as well as securing the best display.

ROSES.

1000 WABANS.
1000 SUNSETS.
1000 PERLES.
1000 MERMETS.

Fine plants 4-inch pots, $10.00 per 100.

PECK & SUTHERLAND,
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ROSE PLANTS.

All the Standard Varieties, best for forcing. Strong, healthy plants in 2-inch and 3-inch pots propagated and raised from best wood. Price list sent on application.

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IN SPLENDID CONDITION.

	2-in. pots per 100	3½-in pots per 100
DUCHESS OF ALBANY	$5 00	$10.00
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MME. DE WATTEVILLE	3 00	6.00
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ANDREW L. BLACK, Baltimore, Md.

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FLOWERING AND DECORATIVE PLANTS,

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Have a fine lot of *American Beauty Roses* in 4-in. pots for sale. Price $15 per 100.

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HYBRIDS 40.00 per 1000

Healthy plants, in 2-inch pots.
Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.
Trade list on application.

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Waban, Mermet, Perle, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, Souv. d'un Ami.
Fine, healthy stock from 2½-inch pots $5.00 per 100; $45 00 per 1000.

SMILAX from 2½-in. pots, strong, $1.00 per 100; $25.00 per 1000 Send for price list.

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The finest stock in the Northwest. Thrifty growing plants free from black spot or mildew. The leading varieties for forcing and bedding in 2½ in pots, per 100, Waban, $6 00; Duchess of Albany, and Meteor, $5 00 per 100; La France, Bride, Sunset $5.00 per 100; Perle, Mermet, $4 50; Bennett, $8 00 per 100.
Also a general stock of Greenhouse and Bedding Plants. And fresh cut flowers always on hand at

C. A. SMITH FLORAL CO.,
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IF YOU HAVE anything to sell to florists you will make a mistake if you do not advertise it in our convention supplement.

SUNNYWOODS GREENHOUSES,

Headquarters of the new pink rose **BRIDESMAID.**

$25 00 per 100 three-inch plants.
9 00 per dozen four-inch plants.

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100,000 ROSES

for florists' planting, strong, healthy plants of the leading varieties for forcing.

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20,000 CHRYSANTHEMUMS, 100 varieties, including Novelties of '92, and the best standard sorts. Send for catalogue.

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NOW READY FOR PLANTING

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock

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We offer for sale this season 20,000 FIRST QUALITY FORCING ROSES grown from strong cuttings in 3 and 4 inch pots, ready for immediate planting.

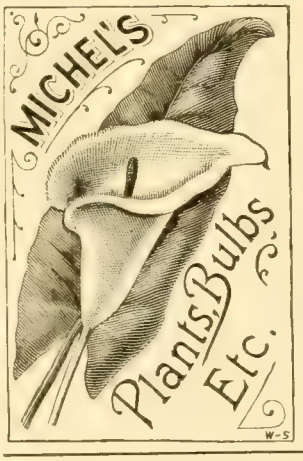
LA FRANCE and AMERICAN BEAUTY, 3-inch pots, $9 00 per 100; 4-inch pots, $12 00 per 100.

WABAN, MERMET, SOUV. DE WOOTTON,
SAFRANO, BON SILENE, PERLE DES JARDINS,

3 inch pots, $7.00; 4-inch pots, $10.00 per 100.

☞ Send for rose circular. We wish every florist needing roses to read it.

J. L. DILLON, Bloomsburg, Pa.



Write for wholesale list.

MICHEL PLANT AND SEED CO., ST. LOUIS, MO.

E. G. HILL & CO.,

Wholesale Florists,

RICHMOND, INDIANA.

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Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

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2,000 to 3,000 **Smilax Plants.** State size and lowest price.

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SMILAX AND FORCING ROSES.

Prices, varieties, etc. on application.

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FOR EARLY PLANTING.

Bermuda Easter Lily BULBS.

First consignment of Harrisii just in. The bulbs are finely ripened and just right for present planting. If you want a few **NOW** that you can plant and rush in early let us hear from you. Prices lower than ever. See page 13 of the price list we sent you. Only a small lot at present. The main supplies will not be on the market until next month. If you have mislaid our list another can be had for the asking.

JOHN GARDINER & CO.,
Bulb Growers, Importers and Dealers,
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JAPAN BULBS, SEEDS, AND SHRUBS.
ARAUCARIAS.
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Palms, Azalea Indica,

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TRADE LIST ON APPLICATION.

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Strong plants, 2¼-inch pots, $2 00 per 100, cash.
CYPRIPEDIUM SPECTABILE, strong blooming clumps, $6 00 per 100.

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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

Eaton, O., Aug. 11-13—Annual flower show Eaton Floral Society. H E Jephson Sec'y.

Washington, D C. Aug. 16-19—Annual trade exhibition of Society of American Florists. C. F. Hale, 719 14th street, Supt of exhibition.

Boston Sept. 6-9—Annual exhibition plants and flowers, Mass Hort Society Robert Manning, Sec'y, Hort. Hall, Tremont St.

Galt Ont., Sept. 7-8—Exhibition of fruit and vegetables Galt Hort. Society. Edward Lane, Sec'y.

Boston, Oct. 4-6—Annual exhibition fruits and vegetables, Mass. Hort. Society.

New York, Nov. 1-7—Chrysanthemum show, New York Florists' Club. Wm Plumb, mgr. of exhibition Madison Square Garden.

Philadelphia, Nov. 7-11—Chrysanthemum show, Pennsylvania Hort Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.

Galt, Ont., Nov. 8-9—Chrysanthemum show Galt Hort. Society Edward Lane, Sec'y.

Toronto, Ont., Nov 8-10—Chrysanthemum show, Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 276 Victoria St.

St Louis, Mo., Nov 8-10—Chrysanthemum show, St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania Ave

Hartford, Conn., Nov. 8-10—Chrysanthemum show, Hartford County Hort. Society. Julian S Allen, Sec'y.

Boston, Nov. 8-11—Chrysanthemum show, Mass. Hort Society. Robert Manning, Sec'y.

Chicago, Nov. 8-11—Chrysanthemum show, Hort. Society of Chicago G. L. Grant, Sec'y, 322 Dearborn St.

Worcester, Mass., Nov. 9-10—Chrysanthemum show, Worcester Hort Society. A. A. Hixon, Sec'y.

Washington, Nov. 15-17—Chrysanthemum show Washington Florists' Club. G. W. Oliver, Sec'y, 1844 8th St. N. W.

Baltimore, Nov. 15-18—Chrysanthemum show, Gardeners' Club of Baltimore. J. J. Perry, Sec'y, 221 N. Liberty St.

Indianapolis, Nov. 15-19—Chrysanthemum show, Society of Indiana Florists Wm. G. Bertermann, Sec'y, 37 Massachusetts Ave., Indianapolis.

Pittsburg, Pa., Nov. 15-19—Chrysanthemum show, Pittsburg and Allegheny Florists' and Gardeners' Club. G. Oesterle, Sec'y, 4210 Forbes St., Pittsburg.

Cincinnati, Nov —— Chrysanthemum show, Cincinnati Florists' Society. E. G. Gillett, Sec'y, 136 Walnut St.

Pittsfield, Mass, Nov. —— Chrysanthemum show, Berkshire County Gardeners' and Florists' Club. A. H. Meredith, Sec'y. Pittsfield.

Erie, Pa., Nov —— Chrysanthemum show, Erie Chrysanthemum and N. W. Penna. Hort. Society. H Tong, Sec'y.

Bay City, Mich., Nov. —— Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y.

PLEASE REMEMBER that the FLORIST is for the trade only and do not recommend it to any one not actually in the trade. We have of late been surprised to receive subscriptions from amateurs with the statement that florists in their city had recommended the paper to them and given them our address. Please do not do this, as we are put to the trouble of returning such subscriptions to the sender and the majority take the refusal to send them the paper in anything but a pleasant spirit. Remember that it may work to your injury as well as that of others to have the wholesale prices quoted in our columns go outside of the trade. We want every one in the trade, including employes, on our subscription list, but none that are not actually in the trade.

IF YOU have any really good thing to sell to florists, don't fail to show it at the trade exhibition at Washington in connection with the annual convention of the Society of American Florists. All the live men in the trade will be there, and they are the men who are quick to discern merit in anything that really possesses it.

THE Florists' Club of Washington has issued the premium list for its second chrysanthemum show, Nov. 15 to 17. Copies may be had on application to the secretary, Mr. G. W. Oliver, 1844 8th street, N. W., Washington, D. C.

THE Gardeners' Club of Baltimore has issued a schedule of premiums to be awarded at the exhibition to be held next November. Apply to the secretary, Mr. J. J. Perry, 221 N. Liberty street, Baltimore, Md., for copies.

LAST CALL for photographs for our convention album. If you wish to be represented send in your photo at once. We must have all in hand by August 1 at latest.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a florist and gardener; 10 years' experience in Europe and U. S.; age 25; single. Private place preferred. Address A. JOHNSON, box 531, Lake Geneva Wis.

SITUATION WANTED—By a gardener of experience. Private place in vicinity of Boston or New York preferred. Married, small family. Best of references. Address C O'LEARY, Geneva Ave., Dorchester, Mass.

SITUATION WANTED—By young man as florist and gardener on private or commercial place. Strictly temperate Steady place wanted. Good references. State wages. Address M L, care American Florist, Chicago.

SITUATION WANTED—By married, steady man, in a commercial or private place. Competent to take charge. 7 years' experience in growing and forcing roses and bedding plants. Good references; sober and steady. Address Box 93, Coatesville, Pa.

SITUATION WANTED—To take entire charge, either commercial or private where several is kept; qualifications, roses, carnations, chrysanthemums, decorative and bedding plants, making up, bulbs, etc., good wages wanted, single, references. FLORIST, 128 La Salle St., Room 9, Chicago.

SITUATION WANTED—The advertiser, a young man of practical experience in England and the U. S would like a position in a first rate private place as manager. Is thoroughly conversant in all branches of horticulture, and competent in every department under glass; also in the pleasure grounds, field or forest. Address J F, 67 Bromfield St., Boston.

SITUATION WANTED—To take charge of commercial or private place where several are kept. Over 22 years' experience in roses, carnations, chrysanthemums decorative and bedding plants, forcing of bulbs and making up. Good references. State wages. Address FLORIST, 129 N. Clark St., Chicago.

WANTED—Lady having 10 years' experience in business desires position in florist's store. Address LADY FLORIST, care American Florist

WANTED—An industrious young florist with good knowledge of general greenhouse work No other need apply. A. BARBE, Kansas City, Mo.

WANTED—A partner, in a town of 75,000 inhabitants; one greenhouse up, all new. Must have $500 or more capital. G G, care American Florist.

WANTED A manager for a wholesale and retail seed house; one thoroughly conversant in all its branches, and able to compile catalogues Address SEEDSMEN, care American Florist.

WANTED—A married man capable of taking charge of a small sized fruit farm. Must also understand raising flowers and vegetables. For further particulars address H. A. ALDRICH, Neoga, Ill.

WANTED Man to grow roses; a good position for the right man If you cannot back up your application with references from well known American house you need not apply JNO. IRVINE CO., Bay City, Mich.

WANTED—A first-class A No. 1 rose grower with large experience and best recommendations as a grower of roses for cutting and young plants for the trade Address SOUTH SIDE FLORAL CO., Springfield, Ill.

WANTED A man to take charge of a commercial plant of 14 greenhouses, to grow mostly cut roses and small rose plants. Prefer married man. Must have good references others need not apply. Address LAROCHE & STAHL, 1237 Chestnut St., Philadelphia, Pa.

FOR SALE—Greenhouses and stock. For particulars, address W. S SAWYER & Co., Lincoln, Neb

FOR SALE—One conical boiler, will heat 600 feet of 4-inch pipe; been used 4 years. Price $40.00 Address HANS NIELSON, St. Joseph. Mo.

FOR SALE—Greenhouse and stock in college town, good trade; splendid chance for a man with about $1,500 cash Address JOSEPH A. BITTNER, Alma Mich.

FOR SALE—At a bargain, a florist's business in a thriving city near St Paul. Proof, profits over $125 a month. For particulars address SELLER, care American Florist, Chicago.

FOR SALE—Three greenhouses 100x11, all new. Good stock of roses ready for planting; 2 acres of land; 10 years lease; rent low. Good town; no opposition. Sickness cause of selling. Address J T, care American Florist, Chicago.

FOR SALE—An old established greenhouse business in a growing city; 3 houses, heated with steam, dwelling house, city water, fine location; will sell on easy terms, at a bargain. Address PLANTS, care American Florist Chicago.

FOR SALE—A well established florist business, 6 greenhouses and full stock, on account of death. Ten years lease on land. For further particulars, inquire of MRS. GEO. LISCHKE, Lathrop St. near Grand Ave., Astoria, Long Island, N. Y.

FOR RENT—One of the best paying florist stands in Philadelphia; store, hothouse and dwelling; established 23 years In consequence of ill health owner is compelled to retire. Will be rented low to a responsible party. Address R. C. SNYDER, 727 Walnut St., Philadelphia.

FOR SALE—Rose growing plant containing 25,000 square feet of glass, with property, situated 25 miles from New York City; stock and houses in A1 condition; plants are growing for next season's planting, mostly Am. Beauty and La France. Will sell on easy terms. Address ROSE GROWER, care American Florist

FOR SALE OR LEASE—Market garden and florist business Established 10 years. Five acres in garden greenhouse 20x60; good 8 room frame house, barn, etc. Good supply of water, and the whole underdrained. Business has grown beyond my control, and being an old man, am retiring. Large patch asparagus, rhubarb, some small fruit, apple, pear and cherry trees. Terms easy. Address GARDENER, box 3.5, Ridgetown, Ontario.

FOR SALE.

Nine greenhouses, containing about 16,000 feet of glass, ½ best double glass; all houses rebuilt 4 years ago; heated by hot water—use city water for watering—2 acres of land, 1 brick dwelling house with 8 rooms, 1 frame house of 4 rooms, stable, horse, harness, wagon, etc. The above property is located in one of the best commercial cities of the west, with a population of over 60,000, and within 1¼ miles of city hall; electric cars pass every 6 minutes direct to city hall and Union depot The greenhouses are well advertised and enjoy a good patronage at home and from abroad, and now contain a good stock of cut flowers, decorative and bedding plants. Poor health causes owner to retire from business. Would also be willing to sell greenhouses and stock and lease grounds and one dwelling house for a number of years, with privilege to purchase at a fixed price when lease expires. A bargain to a man with small capital. Address BUSINESS, care American Florist, Chicago

WANTED.

An experienced propagator and greenhouse man to take charge of a commercial establishment Only those of thorough business habits and training and willing to push things need apply Address with full particulars, age, experience, references, married or single, etc., PIKE & ELLSWORTH, Seedsmen & Florists, Jessamine, Pasco Co., Fla.

A GREAT CHANCE

for the right man. Only small capital required to buy, lease, or enter into partnership in a well established florist business lately built up new. All accommodations, plenty of ground and a large plant of greenhouses, heated with steam. Doing a good business and located in one of the best driving cities of the west Owner is engaged in other business and cannot attend to both. For particulars address K K, care American Florist, Chicago.

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I offer my business of rooted cuttings, stock, greenhouses, etc., at a fair price. The greenhouses to be moved from present location. Correspondence solicited.

S. B. FIELD, Roselle, N. J.

CYCLAMEN SEED.

CYCLAMEN A SPECIALTY.

Cyclamen persicum sp endens grandiflorum Seeds just now gathered. Saved from the finest varieties only. Our cyclamen are remarkable as to size and purity of color, as well as of the stout habit and beautiful designs of the leaves.

WE OFFER 1000 seeds of pure red for..... $5.00
1000 seeds of pure pink for..... 5.00
1000 seeds of pure white for..... 6.00
1000 seeds of white with carmine eye..... 5.00

Special quotations for large quantities. Cash with order.

STENERWALD & WILHELM, Nurserymen, Frankfurt-on-Main, GERMANY, Europe.

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THE LARGEST CUT FLOWER COMMISSION HOUSE IN THE UNITED STATES.

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WHOLESALE FLORIST

79 Lake Street, CHICAGO,

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All Flowers in Season.

Full line of FLORISTS' SUPPLIES.

KENNICOTT BROS.,

WHOLESALE CUT FLOWERS,

34 & 36 RANDOLPH STREET, CHICAGO, ILL.

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Wholesale Florist and Dealer in

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165 Tremont St., BOSTON, MASS.

We make a specialty of shipping choice Roses and other Flowers carefully packed, to all points in Western and Middle States. **Return Telegram** is sent immediately when it is impossible to fill order.

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Florists' Supplies Always in Stock.

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MOSS { SPHAGNUM AND GREEN SHEET.

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BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.

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NO MORE WHITE STRING!

For stringing Smilax and tying bouquets,

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— WRITE FOR SAMPLES AND PRICES. —

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Cut Flowers.

BOSTON, July 19.

Roses	2.00@ 4 00
Carnations	.75@ 1 00
Valley	4.00@ 6.00
Longiflorum lilies	6.00@ 8 00
Sweet peas	.15@ .25
Stocks	1.00
Smilax	12.50
Adiantum	1 00
Asparagus	50.00
Pink Pond Lilies	8.00
Achillea, Galium, Gypsophila Candytuft, Etc., 25 cents per bunch.	

NEW YORK, July 19

Roses, Mermets, Brides	2.00@ 3 00
" Perles Niphetos	2 00
" Gontiers	.35
" La France, Albany	2.00@ 4 00
" Meteors	1.00
" Beauties	6 00@12.00
Carnations	.50
Valley	6.00
Adiantums	.50
Sweet peas, bunch	.02

Market flooded with flowers of all kinds. No demand. Average prices very low.

PHILADELPHIA, July 19

Roses, La France, Albany, Brides	2.00@ 3 00
" Perles, Niphetos	2 00@ 3 00
" Marie Guillots	2 00
Carnations	.50@ 1 00
Sweet peas	.35@ .50
Valley	6 00
Cornflower	.50
Water lilies	.35
Smilax	15.00
Adiantums	.75@ 1.00
Asters	1.00

CHICAGO, July 19

Roses, Perle, Niphetos, Gontier	2.00@ 4 00
" Mermets, La France Hoste	3 00@ 4 00
" Bennetts, Dukes, Woottons	3.00@ 4 00
" Albany, Bride	3 00@ 5 00
" Am. Beauties	8.00@16 00
Carnations, long	1.00
" short	.50
Callas, Harrisii	10 00
Adiantums	.75@ 1 00
Smilax	16.00
Pansies	.25
Gladioli	8 00

Peck & Sutherland,

Successors to WM. J. STEWART,

Cut Flowers AND Florists' Supplies

WHOLESALE.

67 Bromfield Street, BOSTON, MASS.

N. F. McCARTHY & CO.

Wholesale Florists

AND JOBBERS IN FLORISTS' SUPPLIES,

1 Music Hall Place, BOSTON, MASS.

Also entrance from Hamilton Place through Music Hall.

We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.

AUCTION SALES OF PLANTS SPRING AND FALL.

Mention American Florist.

SWEET PEAS

FINE SUPPLY RECEIVED DAILY.

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131 Mason Street MILWAUKEE, WIS.

FLORAL DESIGNS,

The Cut Flower Worker's friend. Fine book of 160 pages. Send **$3.50** for it, to

J. HORACE McFARLAND, Harrisburg, Pa

CUT SMILAX.

Summer prices, 15 cents per string. Special attention to orders by wire.

J. E. BONSALL & SON, 308 Garfie'd Ave., Salem, O.

BURNS & RAYNOR,

49 West 28th Street, NEW YORK,

WHOLESALE DEALERS IN AND SHIPPERS OF

Choice Flowers.

EDWARD C. HORAN,

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34 W. 29TH ST., NEW YORK.

SUCCESSFUL SHIPPING OUR SPECIALTY.

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FLORIST,

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Roses Shipped to all Points. Price list on application

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FRANK D. HUNTER. JAMES PURDY, Formerly 112 W. 40th St

JAMES HART,

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A complete line of Wire Designs.

WATER LILIES.

HARDY AND TROPICAL, DAY AND NIGHT BLOOMING VARIETIES.

All the newest and choicest in cultivation Catalogues free. Special trade rate.

WM. TRICKER, Dongan Hills, S. I., N. Y.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

The Forcing Bulb Industry.

How will the crops turn out? is the weighty question which every bulb dealer puts to himself and everybody of whom he expects to get some reliable information, and he racks his brain with this puzzle, as if any thinking could help improve the quality which he is to bring to his trade. Ever occupied with the season which (to make a success) he longs to see bring forth the best for him to offer, it is a rude surprise to find that even if successful otherwise there is a dormant influence which poisons the fruit of his labors. "Greediness" is the name of this baccillus which has caused already much harm, and will cause more unless something is done to counteract it. To illustrate the case, it was in 1878, or only 14 years ago, that the Dutch catalogues quoted Yellow Prince tulips at fl. 1.25 per 100; America found the forcing value of this variety and kept on increasing orders on this kind, which now, owing to the existing demand, commands as high as $18.90 per 1000, or at 40 cents to the guilder, fl. 4 56 per 100. Does it cost parties any more to grow this variety in 1892 than in 1878? Not at all. And yet the prices are 400% higher now than what they were 14 years ago. Why? Because the foreigner took advantage of the dealers' labors and kept on increasing prices from year to year, until nowadays few growers see a profit in forcing tulips for market at the existing cost of the bulbs. The "goose that laid the golden egg" is being slaughtered. Again, Von Sion narcissus or double English daffodils were sold in 1878 by the bushel and nobody thought of counting them. This season the writer has noted its highest quotation in London market as 65 shg. sterling per 1000.

This is what we have come to. After the dealers did not respond with sufficient orders on account of enhanced prices, the Dutchmen sent their offspring over to look up the trade direct, and many a time they gave in their greed for an order a cheaper or as cheap a figure to the consumer as they gave to the dealer for his accumulated orders.

Why did they not increase the quantity grown of such varieties as the American grower demanded? Why did they keep on growing some 50 to 100 sorts which are no good for forcing? Their greed prevented them, because their old trade at home would call for them. They advertised America all over the world as the biggest tulip buyer and raised their home trade in the American forcing kinds to the American level; but to cater to this trade and to keep it prosperous! They never thought of that! But what has it come to? America does not use one-third of the amount of tulips that it did five and six years ago. Prices are too high. Apparently the only remedy is to foster the production of American grown bulbs. The encouraging reports from Massachusetts, Michigan and Illinois in growing Dutch bulbs at home, and diverse inquiries addressed to the writer as to making trials of growing these bulbs in North Caro in , Florida and California, indicate how a home supply can be established, which in the course of time must influence the Dutch in their mad career.

Again, climatic influences will be less severely felt if the U. S. have not to rely entirely on Holland. If our American growers of tuberoses, which sell for $10 per 1000 on an average in seed stores, can give us a Yellow Prince, Cottage Maid, Salvator Rosa, Tournesol Yellow and Imperator Rubrorum tulips to sell at $15 per 1000 the consumption would soon increase greatly.

The Roman hyacinth, another leading bulb, which has suffered from the greed of the French grower, can just as well be grown in the south as in Bermuda where folks are obtaining good results with their culture and can bring crops sooner to market than Europe can send its contingent. The market is able to consume more flowers than it did.

We may safely say that 5 years ago was the down hill turning point in the amount of consumption of tulips, on account of extravagant prices asked. If left to develop itself at fair prices a natural increase of about 8% would have made itself felt, or in 5 years about 40% increase in the consumption of material. This is taken away by the fallacious policy. How silly, if we consider these facts, do dealers act, when they wage an uneven fight with each other, following the "cut," "cut," "cut," policy, whereby the foreign grower only, obtains the advantage. Again how short sighted appears the policy of the buyer who protects the foreign trade to save a few dollars, whereby the American dealer is incapacitated, whose interests are indentical with his own. Does not the dealer benefit the country at large by living here, paying taxes here, and sharing the welfare of the country by investing his savings in American enterprises, whilst the foreigner carries his gain back to his foreign home?

Perhaps if facts as above are pondered over a little common sense may devise a way to gather the many interests under one hat and proceed to combat the common enemy, so that the bulb dealer can have a breathing spell from guessing.

AUGUST ROLKER.

CALIFORNIA advices report all seed crops in very promising condition.

ILLINOIS reports on farm seeds show oats a heavy crop; corn fair but two weeks late; beans good.



Clean and round, heavy and sound,
In every bulb a flower.

GARDINER'S BULBS.

"Clean and Round, Heavy and Sound. In every bulb a flower."

That old world rhyme expresses exactly the qualities which have made

GARDINER'S BULBS

popular from one end of the country to the other. Our customers sit at the first table and pay no more than those who depend on the inexperienced caterers. Before taking your vacation make sure you have all arrangements made for Fall and Winter stock in case business may feel like taking a vacation also; but at the wrong season. Look over the special Price List we sent you and send us your order. If list mislaid send for another.

JOHN GARDINER & CO.,

BULB GROWERS, IMPORTERS AND DEALERS, PHILADELPHIA, PA.

ONION SEED

OUR SPECIALTY

Grown from selected Onions and the purest stock in the United States



YELLOW GLOBE DANVERS

1892 .·. CROP .·. 1892

WHOLESALE PRICES.

FALL DELIVERY

	PER 100 LBS.	PER LB.
Yellow Globe Danvers	$ 75 00	$0 85
Yellow Flat Danvers	65 00	75
Extra Early Red	65 00	75
Wethersfield	75 00	85
White Portugal	150 00	1 75

COX SEED AND PLANT CO.

GROWERS OF CHOICE VEGETABLE SEEDS.

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AUGUST ROLKER & SONS

Supply the trade with all

FLORISTS GOODS,

Seeds, Bulbs, Imported Plants, Supplies Etc., Etc. For prices examine Wholesale Catalogue.

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136 & 138 West 24th Street,

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CELERY PLANTS.

All the leading varieties, at $2.00 per 1000. Larger lots very cheap. Safe arrival and satisfaction guaranteed.

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Roman Hyacinths, LILIUM HARRISII, Freesias,

Are now on hand in our New York and Chicago stores.

FORCING ROSES

Our stock is in SPLENDID condition.

AMERICAN BEAUTY.	2½-inch.....	7½ cts
	3½-inch.....	12 cts
	4-inch.....	14 cts

We will put in some extra plants to help out on express charges east of Pittsburg.

— ALSO —

SUNSET, ALBANY,
BRIDE, LA FRANCE,
HOSTE, C. SOUPERT,
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CINERARIA HYB., International mixture, pkt. 50c
ARALIA SIEBOLDTI, pkt. 25c.
MUSA ENSETE, fresh, 100 seeds, $1.50.
CALCEOLARIA HYB., finest mixed, pkt. 50c.
PRIMULA CHINENSIS, white, red, pink, blood red, and mixed, each, pkt. 50c.
PANSY INTERNATIONAL MIXTURE, ⅛ oz. $1.00; oz. $10.00. (Orders booked now).

CELERY PLANTS.

WHITE PLUME, per 1000, $2.00.
WINTER ONION SETS, bushel, $2.25.

J. C. VAUGHAN,

12 Barclay Street, NEW YORK | CHICAGO.

BULBS.

Full line of forcing stock.

READY NOW

FREESIA REFRACTA ALBA.

	Per 100	Per 1000
FIRST SIZE	$.75	$5 50
SELECT	1 00	7.50
EXTRA SELECT	1 25	9 00

DUE THIS MONTH

ROMAN HYACINTHS.
LILIUM HARRISII.

Order for early forcing.

W. W. BARNARD & CO.,
6 and 8 North Clark Street, CHICAGO.

STOCK THAT SELLS WELL!

LILY OF THE VALLEY

FROST RIPENED.
BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.
FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

THEO. ECKARDT,
RIDER'S P. O., Baltimore Co., Md.

M. W. BARROWMAN'S
NEW CELERY THIMBLE FOR BLEACHING.
Also 5, 8, 9 and 15 pound Climax Grape Baskets.
Manuf'd by J. E. CRANDALL, Brocton, N. Y.
☞ Send for samples and price list.

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Third Edition containing all available information on the subject NOW READY. Price, $1.50 mail. Address H. E. CHITTY, Paterson, N. J.

Mention American Florist.

LILIUM HARRISII (Bermuda Easter Lily).

FIRST CONSIGNMENT received. SECURE our extra large sized bulbs by placing your orders NOW, and COMPARE our prices and sizes before ordering elsewhere. We are now in position to ship any number. Send for samples and prices.

LILIUM HARRISII.

	Inches.	Inches.	Inches.
OUR UNEQUALLED LARGE SIZES:	6-7	8-9	10-11
OTHER DEALERS' SIZES:	5 - 7	7 - 9	9 - 11

NOTE DIFFERENCE IN CIRCUMFERENCE OF BULBS.

Ours contain no small Bulbs whatever, whereas those usually sold contain at least 50 per cent. of the smallest size we exclude entirely.

FREESIA REFRACTA ALBA. Large bulbs measuring 1 to 2 inches in circumference ready for delivery.

NOVELTY.

DWARF CALLA LILY "THE GEM". Large flowering bulbs, $20.00 per 100. Special price for large quantities. Grows from 9 to 12 inches in height; flowers smaller, purer white and more profuse than the common Calla, which makes it indispensable for design work.

CYCLAMEN PERSICUM GIGANTEUM SEED. Best English strain. New crop now ready.

PITCHER & MANDA,
UNITED STATES NURSERIES. SHORT HILLS, N. J.

R. VAN DER SCHOOT & SON,

HILLEGOM, - HOLLAND,
Largest Growers of

HYACINTHS, TULIPS, NARCISSUS, SPIRÆA, LILIES OF THE VALLEY, ETC.

HEADQUARTERS FOR HIGH GRADE FORCING BULBS.

Wholesale Importers should write us for Prices.

OUR NEW TRADE LIST NOW READY.

FINE BULBS

AND BULBOUS ROOTS.

Exceptionally LOW PRICES, and f. o. b. at Havre. Delivery now to October.

	Per 1000
Acanthus mollis	$17 00
Amaryllis lutea (Sternbergia)	14 00
Anemone chinensis, in variety	4.00
ANEMONE CORONARIA (Caen Anemones), single	6.00
ANEMONE CORONARIA flore pleno (Caen Anemones), double, EXTRA, separate colors or with names. per 100 $12 00	
Arum dracunculus, large bulbs	24 00
Chionodoxa luciliæ	4.00
" sardensis	4 00
" cre ensis	5.00
Cyclamen hederæfolium	16.00
" giganteum universum, extra large dark red, pink, and white, in separate colors, bulbs 5 to 8 inch circumference	40.00
" 3 to 5 inch "	20 00
Crocus sativus	4 00
Colchicum Agrippinæ	8 00
" flore albo	7 00
Convallaria multiflora	7 00
Fritillaria armena	8.00
Galanthus Elwesii	5.00
" imperati	9.00
Iris Germanica, varieties	12 00
Lilium candidum	12 00
Scilla bifolia	5 00
Ornithogalum arabicum	10 00

Kindly compare and keep in mind the above prices are for one thousand pieces.

General assortment of Palm Seeds, delivered at all times of the year, when fresh: Kentia, in var. $6.00 per 1000; Latania borbonica, $3.00 per 1000; Phœnix, etc.

Fruit Tree Seeds, Fruit Stocks and general Nursery Stuff.

Ask now for price lists, quotations, etc.

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19 Park Place, NEW YORK,
Agent for LETELLIER & FILS, Caen, France.

C. G. VAN TUBERGEN, Jr.,

HAARLEM, HOLLAND,

Grower and cultivator of choice Dutch Bulbs, Hyacinths, Tulips, etc., etc.; also of various bulbous plants, guaranteed true to name. Beautiful and attractive for gardens and conservatories. Orders solicited. Catalogues free on application to his agents,

C. C. ABEL & CO., P. O. Box 920, New York.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

DIRECT FROM THE GROWER.

BULBS, ETC., ETC.

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HULSEBOSCH BROS.,
P. O. Box 3118. Warehouse 58 West Street,
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Ask for General Wholesale Catalogue.

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Seed Bags and Catalogue Envelopes.
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SEND IN YOUR ORDERS FOR

Dutch and French Bulbs, Lilium Harrisii, Tuberoses, Lily of the Valley, best Hamburg grown pips. Only first-class goods handled.

F. W. O. SCHMITZ & CO.,
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BERLIN LILY OF THE VALLEY PIPS

We are now ready to take orders for Ernst Reimschneider, Altona, Hamburg, CELEBRATED BERLIN LILY OF THE VALLEY PIPS. Catalogues free on application to his agents,

C. C. ABEL & CO., P. O. Box 920, New York.

St. Louis.

The week has been cold and wet. People die here all summer, so that there is a demand for any stock that will work into funeral designs.

The St. Louis Florist Club held its regular monthly meeting July 14 in hall No. 2 of Odd Fellows' Building. Notwithstanding many of the members are out of the city, the attendance was good. A resolution that the club render the market gardeners all the assistance in its power to further their efforts to secure a suitable market was adopted.

A committee was appointed to ascertain what transportation rates could be obtained for delegates to the S. A. F. meeting at Washington, and another committee was appointed to estimate the probable cost of entertaining the members of the S. A. F. in '93, and to consider means of raising the funds necessary.

The committee on revision of the constitution made a report which was laid on the table to be taken up at the next meeting. A considerable addition was made to the guarantee fund of the chrysanthemum show. A number of letters were read offering special prizes for plants to be exhibited at the chrysanthemum show.

The roses for next season's cut are planted. Mr. Tesson heads the list with two houses 16½x300 feet. He has planted 1,000 American Beauties, 800 each of Brides and Mermets, 600 Meteors, 500 each of Brides and Perles and smaller numbers of various other varieties.

J. C. DUFFEY.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

Now is the time to prepare your advertisements for our annual convention supplement.

PALMS.

KENTIA BELMOREANA and KENTIA FORSTERIANA, in 3-inch pots, VERY FINE PLANTS, $50.00 per 100.

EDWIN LONSDALE, Florist,

Chestnut Hill, PHILADELPHIA, PA

Money Order Office, Station "H".

Mention American Florist.

ORCHIDS.

The finest stock in the WORLD. Nearly five acres devoted to their culture.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

CHEAP FOR WANT OF ROOM.

2,500 Chrysanthemums under label, in 4-in. pots, ready to plant on bench.

Also 2,000 first-class stock of field grown Carnations, ready in October. Varieties and prices on application.

C. K. HOFFMEYER, Allegheny City, Pa.

Mention American Florist.

	Per 100
GREVILLEA ROBUSTA, 2½-inch pots, good	$3.00
ADIANTUM CUNEATUM, 3½-in., good	8.00
CLERODENDRON BALFOURII, 2½-inch good	5.00

Probst Bros. Floral Co.,

1017 Broadway, KANSAS CITY, MO.

DECORATIVE PLANTS.

	Per doz.	Per 100
Grevillea robusta, 3½-inch pots, 15 inches high	$3.00	
" " 3-inch pots	2.00	$15 00
" " 2½-inch pots	1.25	10.00
Pandanus utilis, 5-inch pots, fine plants	6.00	
" " 4-inch pots, fine plants	4.00	
" " 3-inch pots	2.00	
" " 2½-inch pots	1.50	
Dracæna indivisa, 3-inch pots	$1.25	$ 8.00
Palms—Latania borbonica, 4-inch pots	3.00	
" Washingtonia filifera, 4-in. pots	3 00	
Ferns—Blechnum brazilliensis, 3½-inch	1.00	8.00
" Pteris serrulata, 3½-inch	1.00	8.00
Asparagus tenuissimus, 3½-inch	1.50	10.00
Smilax 2½-inch, strong plants		3.00

FORCING ROSES.

	Per 100 2-in. pots.	Per 100 3 & 3½-in. pots.
ALBANY	$5.00	$10 00
LA FRANCE	4.00	10.00
PERLE	4.00	8.00
BRIDE	3.00	6 00
MERMET	3.00	6.00
NIPHETOS	$3.00	$ 6.00
BON SILENE	3.00	6.00
SAFRANO	3 00	6.00
ADAM	3.00	6.00
BRABANT	3.00	6.00

Samples mailed at prices quoted.

NATHAN SMITH & SON,

167 W. Maumee St., ADRIAN, MICH.

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By the 1000.

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Its large and perfectly formed blooms, with thick and velvety petals of an endless variety of rich and delicate colors and tints, often in combinations, that if not seen would be difficult to believe ever existed in a Pansy, distinguishes this strain above all others. I particularly invite a trial order from florists who have never dealt with me, feeling confident that a trial and comparison with other strains will result in further trade, to our mutual advantage. This strain seeds very lightly and cannot be sold to compete in price with the cheap grades, which produce seeds like weeds. Those who have been in the habit of sowing only these cheap grades will find that plants from a first-class strain sell much better, even at an increased price, and a few cents per dozen extra will make up the difference in cost of seed several times over, in fact first-class varieties sell faster at 50 to 75 cents per dozen than common stuff at half price. I have made a specialty of Pansy culture for fifteen years and can speak advisedly on this point.

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Ounce, $6.00; 3 or more ounces, $5 00 per ounce.
Large yellow, black eyes pkt. 50c. and $1.00.
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Fine plants, from 2¼-inch pots, 25c. each. 3½-inch pots, 35c. each.

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Also nice plants for ferneries, four varieties, 3-inch pots, $6 per 100.

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Montreal.

The last meeting of the club was well attended. A by-law dealing with members in arrears was passed, and in future members who fall behind two years will have their names erased from the roll. After business was finished Professor Sayred read a paper on native ferns which he illustrated by specimens he had collected around the mountain and vicinity. The members generally were surprised at the number of varieties there is to be found growing wild. A vote of thanks was tendered the professor at the close of his lecture.

Business was very lively here last week owing to a sad accident on the river by which six of Montreal's young athletes lost their lives. Nearly all the clubs in the city sent something beside what was sent by private friends. H. Mott has been in the city this week and reports fair trade. J. B.

Cleveland, O.

Harry J. and William V. Wamelink have been lately added to the already long list of florists in our city. They are building some modern houses out on Woodland Hills avenue, overlooking the city. Four of the houses are 20x100 feet and a palm house of extra height, 20x70 feet. Steam will be used. They will grow a general line of plants and cut flowers, and as they have quite a tract of land will add small fruits. In connection with their greenhouses they will in the fall open a retail store on Euclid avenue, and as they are pushing, wide awake young men no doubt they will be successful. L. F. D.

A TREATISE on greenhouse ventilation is the title of a neat pamphlet issued by Mr. J. D. Carmody, Evansville, Ind., in which he gives several pages of useful hints on this important subject. It is well worth reading.

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In buying see that you get the true variety, as it has many aliases. **Price, strong plants, $8 per 100.**

Owing to the heavy demand, our stock of this most desirable Fern, ready for immediate shipment, is getting low. In order to accommodate those who wish to make plantings later in the season, we will book orders now for delivery any time till July 1st. This will give florists who are now busy with their spring work an opportunity to secure their stock and have it delivered at a time when they can take care of it.

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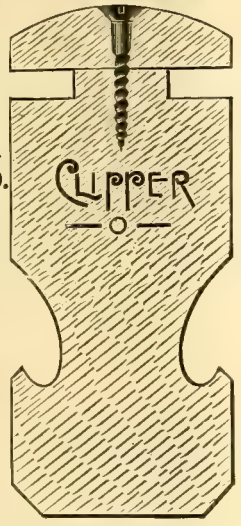
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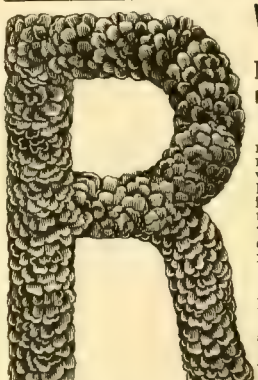
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JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Worcester, Mass.

Trade is very dull and we haven't reached the bottom rung of the ladder yet. Three hundred and ninety nine of the noble "400" have gone to the shore or the mountains and the few that are left are so busy kicking themselves because they can't go that they have little time to buy posies.

Mermets, Perles, Brides and La France are very plenty and of very fair size and color. Carnations are coming in rather small and not very many at that. We have Harrisii and candidums in abundance. A great many growers report that their sweet pea crop is a failure; the two weeks of dry scorching weather that we had just about planting time probably caused it.

A lot of very good exhibits were shown at the bi-weekly meeting of the society, held July 7. A very large display of Lilium candidum was especially noticeable. Mrs. Mary Phelps took first with a superb stand that avaraged twelve large blooms to the stalk. Mrs. C. E. Brooks had a splendid stand of Iris Kæmpferi (or lævigata according to Mr. Falconer). Although the date was rather late for iris in this locality, she showed twelve good varieties and was awarded first premium. The display of cut flowers was very large, as usual, and made a handsome show. F. A. Blake of Rochdale received first for an exceptionally good stand but was pressed very close by H. B. Watts, who received second. The call for zonal geraniums was responded to very largely; Mrs. A. A. Hixon distanced all competitors with an exhibit of forty five varieties; H. A. Jones was a good second.

These bi-weekly exhibitions are proving very popular and are doing a great deal to advance the love of plants and flowers among the middle classes. We have a very large attendance at nearly every show.

The annual chrysanthemum show will be held November 9 and 10. Mr. A. A. Hixon is secretary of the society.

SEEDLING.

A COLLECTION of interesting articles upon the subject of heating and ventilation has been printed in pamphlet form by the Herendeen Mfg. Co., Geneva., N. Y., for gratuitous distribution. It is well worth a perusal.

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2½ "	"	3 50	6 "	"	2 20
2¾ "	"	4 00	7 "	"	3 00
3 "	"	5 00	8 "	"	5 00
3½ "	"	7 00	9 "	"	8 00
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THE LARGEST PLANT FOR THE MANUFACTURE OF FLOWER POTS IN THE WORLD.
And it is equipped with all the Latest Improved Machinery, which has been built especially for us.
WE ARE NOW MANUFACTURING,
And with our enlarged facilities we shall be enabled to supply goods in unlimited quantities, and thus very soon fill all orders promptly with a POT FAR SUPERIOR to any yet offered to the public.
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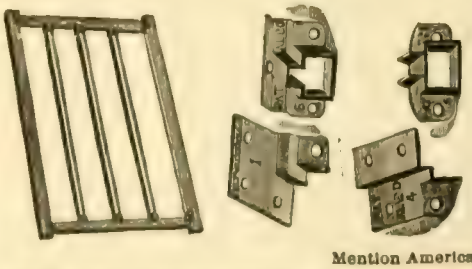
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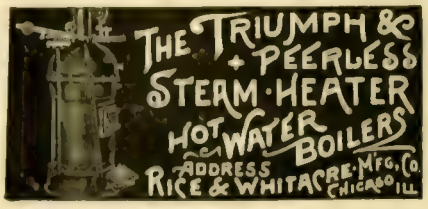
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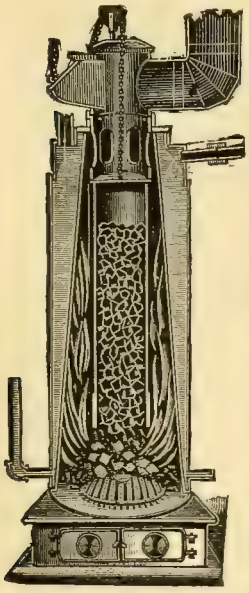
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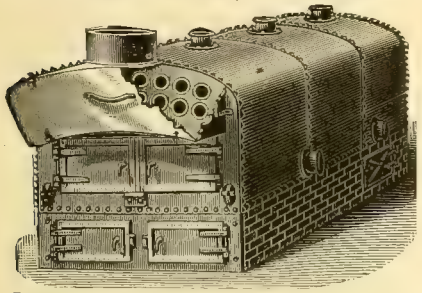
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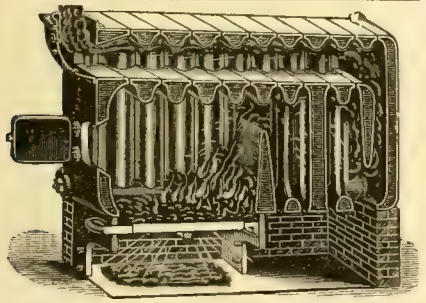


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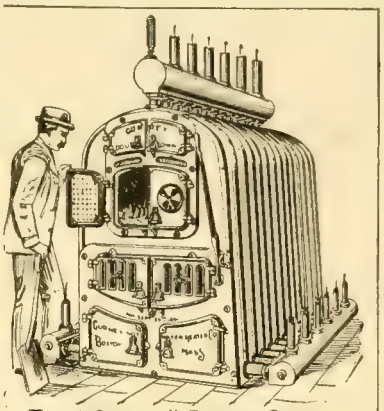
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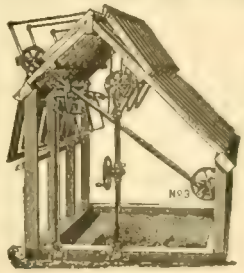
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HELENA MONT.—Mr. J. F. Brown, formerly with the Huntsman Floral Co., Cincinnati, has engaged with Mrs. Wells of this city, and will endeavor to make a success of the growing of roses and carnations here. It is claimed by some that Montana soil will not grow roses. This summer has been the coldest known here, and the heavy rains have done much damage. There was no mail from the east for a period of six days, owing to washouts on the railroads.

MANITOU, COLO.—Considerable bedding was done by the city this year. The sum of $500 was expended for beds of plants in masonic designs in the public parks. Wm. Clark, of Colorado Springs, got the contract.

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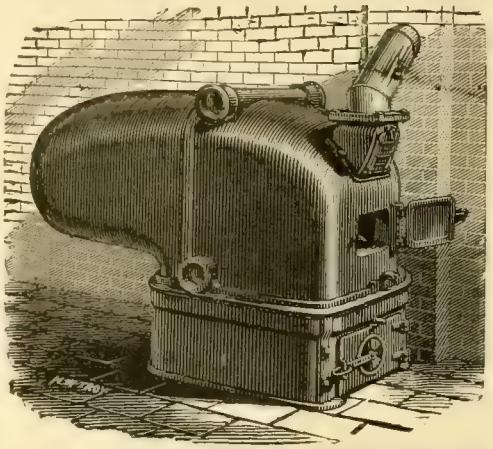
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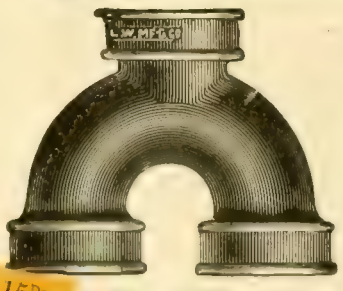
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THE AMERICAN FLORIST



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Vol. VII. **CHICAGO AND NEW YORK, JULY 28, 1892.** **No. 217**

THE AMERICAN FLORIST

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322 Dearborn Street, CHICAGO.

This paper is a member of the Chicago Publishers' Association.

The Eighth Annual Meeting

— OF THE —

SOCIETY OF AMERICAN FLORISTS

— WILL BE HELD AT —

WASHINGTON, D. C.,

AUGUST 16, 17, 18 AND 19, 1892.

Members may remit the annual dues ($3 00) to the secretary or treasurer prior to the meeting, thus avoiding the crowd and relieving the officers on the opening day. Badge for 1892 will be sent by mail to those who remit in advance of the meeting.

Intending members can obtain any information wanted by addressing the secretary.

James Dean, Bay Ridge, N. Y., president; W. R. Smith, Washington, D. C., vice-president; Wm. J. Stewart, 67 Bromfield St., Boston, Mass., secretary; M. A. Hunt, Terre Haute, Ind., treasurer.

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OUR CALL for photographs in the convention supplement is closed, so if yours reaches us after August 1 and is not used do not be disappointed.

OUR convention supplement will be a photograph album such as was never seen before.

Our Telephone.

"Hello Mr. Craig, is that you?"

"Yes."

"Well, this is the AMERICAN FLORIST. We saw it stated in a New York paper the other day that people in Philadelphia don't begin work until 10 or 11 a. m. Is that so?"

"'An enemy hath done this.' It is a fiction as far as this business is concerned anyhow. I expect to have a day's work done before 11 a. m., and if you wish to talk with me you will have to proceed at once for I am very busy."

"What do you note as special features of your trade this season?"

"The most noticeable thing about it is the way it is holding out. We have not had an idle moment here since before Easter and are as busy to-day as at the height of the season."

"What is the particular demand for?"

"The demand is not confined to any one specialty, but embraces palms, ferns, cannas, araucarias, ficuses, roses, chrysanthemums, everything. We find trade in a very healthy condition. The demand for palms is constantly on the increase; this is especially true as regards large specimens for immediate effect. The growers around Philadelphia are increasing their stocks of ferns, remembering the great shortage of last winter. The call for small stock for ferneries was very large, and there was no decent stuff to be had after February. Speaking of ferns, that Nephrolepis davallioides furcans is a fine thing. We now recognize it as one of the best decorative plants in the trade. The demand is so heavy that we find it impossible to get up stock enough of it. It is most effective when grown in large pots, 8-inch and upwards. What a fine plant Nephrolepis exaltata is for outdoor planting. It will stand out in the sun in a tub or border, all it requires being plenty of water. N. pectinata also stands well outside and makes a good edging for a bed of exaltata."

"How does the demand for ficuses hold out?"

"Why, it holds out well. We are growing a good many to tree form now. We stop them at about a foot high to make them branch. In this way they make the nicest lawn plant there is. The pot should be plunged right in the bed and the hot sun will color the top leaves beautifully. There is nothing nicer.

"We think we have found out how to grow the variegated ficus. It wants heat in winter, a temperature of 70° and upward. Above all things, it must not be syringed on the leaves. When it is syringed the edges of the leaves are apt to turn brown and die. It makes a first class plant outdoors in the hot sun in summer. It stands it tip top."

"How do those crotons stand in Fairmount Park?"

"They are showing up beautifully in form and color and attract great attention. Crotons are bound to come as bedders. Florists have just to observe one thing in recommending crotons; that is, they should not be planted before the first week in June. Beds intended for crotons should be filled with pansies or some other spring flower early in the season to keep up the show until the crotons can be safely set out. In growing crotons it should not be forgotten that it is at all times a high temperature plant. While they will remain stunted in a temperature of 60° or less, they will grow like weeds in a temperature of 80° or more. As bedders they are most successful where the thermometer doesn't go below 65° at night."

"We hear considerable lately about your success with cyclamens. Is there anything you can say beyond what you told us in that interview last fall?"

"Nothing, only that if you want good plants the seed should be sown the previous autumn, not later than October, better still in September. Our finest plants are from seed sown the latter part of last August. I would like just to have you see those frames of cyclamen. I say that it is all nonsense, in spite of all that is written to the contrary, to expect good cyclamens in 6-inch pots, in October from seed sown the previous March. Many a man was fooled by sowing cyclamen seed last spring."

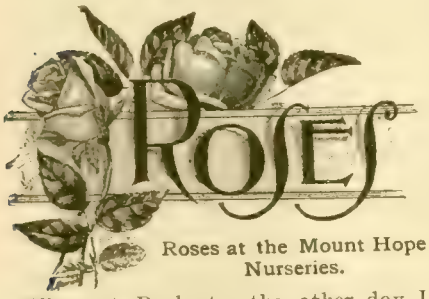
"Have you anything new in cannas?"

"We are trying Florence Vaughan. We find it a splendid grower. As a bedder it is first class. The flowers are yellow, large and very distinct. It blooms freely, with fine spikes and is about two feet high. I think it is the best thing out and ought to have as good a run as Madame Crozy had.

"Our people are taking great interest in the Horticultural department of the World's Fair. The amateurs are taking hold with commendable spirit, and are quite willing to send their best and rarest specimens, in order that the Keystone State may be well represented.

"I have been given charge of the shipment of all the plants from here and am responsible for the safe return of those that are to come back. There is an appropriation of $12,000 to defray transportation and other expenses. We wanted $25,000 and ought to have had it. We urged and urged, but to no effect. $100,000 was appropriated for a building which will only look like a pigmy among the giants, while horticulture has to do with a paltry $12,000. Out of an appropriation of $300,000 for all purposes $12,000 seems a small portion for so important a branch as horticulture. The plants are to go first week in October. The state will transport plants for individuals as well as those for the regular, state display.

The idea is to keep all the Pennsylvania plants together. For this purpose good accommodations have been secured in one section of the building, and the state will cheerfully pay transportation charges for plants from those in the trade to and from Chicago. It seems to me it is high time that other states were taking some similar action in order to fill Uncle John's building creditably. It is only in some such way that the desired results can be accomplished."



Roses at the Mount Hope Nurseries.

When at Rochester the other day I called at Ellwanger & Barry's nurseries to see their hardy roses and other ornamental stock. These nurseries have been famous for this line of plants for the past 50 years, and they keep up with the times and get and test every new species or variety likely to be of use to them.

OWN-ROOT VS. BUDDED PLANTS.—There has been a good deal of discussion on the matter of own-root and budded roses, some favor one way and some the other. I notice the tendency about Boston is in favor of budded stock, and that about New York in favor of own-root plants. Ellwanger & Barry grow vast numbers of both kinds to suit the inclinations of their customers, and they tell me that the majority of their patrons favor the budded plants. They think they get finer flowers and a better growth right away, and the Manetti sprout is so easily distinguished from the "rose" that an amateur can very quickly tell which is which and remove the sucker.

MANETTI STOCKS are the only ones used for budding on for they are considered the best. They are imported to begin with, not home propagated, because they can be obtained much cheaper from Europe than they could be raised here, quality considered. They are planted out in open rows 2½ feet apart and got into good growth before they are budded.

BUDDING is now in full operation. The Manetti being in suitable condition a one-horse plow is run along each side of the row to remove the dirt from the stock and this is finished off by a hand hoe and the stock rubbed over with the hand by a boy to have all clean for knifing. The budder gets his bud branches, cuts off the leaves except half an inch or so of the petiole, then carries them along in a basket with a moist cloth over them, taking out one branch at a time as he wants it for cutting the buds off. The buds are cut by inserting the blade of the knife a third of an inch below the eye and cutting upward under the eye and for nearly an inch above it; the wood is then slipped out of the eye. The incision made in the bark of the stock for the reception of the bud is simply T shaped (and not cross cut as is sometimes done) about ⅝ inch across the top and 1¼ inches long, and clean cut through the bark at one touch of the knife. The lips of bark are lifted by the ivory end of the knife and the bud thrust down into the incision, pretty well down, and the lips are then tied down into place over the bark of the inserted bud with bass matting wound several times around, beginning under the bud and ending above it, with a tie at back, but care is taken never to cover the bud itself. A man does the budding and a boy the tying. A thousand buds a day is a man's average work. One thing in particular I noticed about the workmen is, there is no cuddling down at their work, both men and boys straddle the rows and bend over and do their budding, tying or stripping as the case may be. Sitting down or cuddling down at their work is against the rules of the nursery and not permitted.

OWN-ROOT ROSES are also being propagated now from cuttings taken from plants grown for this purpose in the greenhouses. The parent plants are planted in bench beds and kept moist and in good growth just as if they were intended for a crop of flowers, but their sole object is to furnish wood for cuttings. The cutting beds are outdoor fresh hotbeds. These beds are regular sunk hotbed pit frames such as may be seen in any market garden in spring for lettuces or tomato plants, or in a florist's for alternantheras. When the manure is hot throughout it is packed smooth and solid on top and a deep layer of sharp sand placed over it and firmed, and when the heat has declined enough to render propagation safe the cuttings are inserted. Clear glass sashes are then used over them and kept rather close. And over the sashes, or rather over the stretch of frames, and 4 to 5 feet above them is erected a light framework of wooden strips sloping to one side and a spread of canvas or stout muslin stretched over this frame; this gives shade from sunshine and at the same time plenty light. For the first while or until root action has begun the light lattice or lath frames commonly used for shading seedlings or newly transplanted young stock are laid on top of the canvas to increase the shade.

FIELDS OF ROSES.—In one solid field were 80,000 vigorous Manetti stocks being budded and 50,000 rising 2-year old hardy roses passing out of bloom, and a few score yards further along the road was another square of 30,000 of these hardy roses. And there are other patches besides these. An interesting lot of old plants occupies a plat near the greenhouses and comprises every known variety introduced within the past 30 or 40 years or more. This patch is for comparison's sake. Every new rose as it is obtained and bloomed is compared with all the others of its class and its identity or distinctness soon established.

SOME FINE ROSES.—Looking over this vast field of roses notwithstanding the lateness of the season (July 18) one can not fail to notice how prominently some varieties stand out among the host, and it isn't a case of a dozen bushes or so but of a thousand or more, and we argue, if these in mass are so pronouncedly fine the variety is a safe one to have.

MARCHIONESS OF LORNE, rich rose color, long bud, large, full, cup shaped, perfect flower and a perpetual bloomer.

MADAME JOSEPH DESBOIS, white shaded with rose, a very large, fine, full flower, and the plant a vigorous grower.

MADAME GABRIEL LUIZET, a very large, cupped, pink flower.

MARSHALL P. WILDER, cherry carmine, large and full and a vigorous grower. One of the finest roses in the field.

EARL OF DUFFERIN, a magnificent dark crimson velvety flower, indeed, I think the finest of its color in the field, and it had lots of capital blossoms on it then—July 18. Flowers large, unusually full and very fragrant and the plants vigorous and healthy.

PRINCE CAMILLE DE ROHAN, of lesser growth than Dufferin, but a splendid velvety crimson rose. An old favorite.

MRS. JOHN LAING, now fairly well known as a forcing rose, but without a peer among hardy pale pink roses. The flowers are large, full, very fragrant and borne all summer long. Indeed, were I told to pick out the three finest roses in the field I'd take Marshall P. Wilder, Earl of Dufferin and Mrs. John Laing.

PIERRE NOTTING, although old is still one of our best crimson roses, and few bloom more freely in late summer and fall than it does.

ULRICH BRUNNER.—Among forcing sorts this superb variety holds a prominent rank, and it also is one of the very best hardy roses grown. Its flowers are bright cherry red and the plants healthy and vigorous.

PAUL NEYRON for a big flower.

LOUIS VAN HOUTTE, a fine, crimson-maroon rose, well known and appreciated and very free blooming, but a little tender. But I shouldn't wonder if the Earl of Dufferin may displace it in our gardens.

GLOIRE DE MARGOTTIN, a comparatively new rose, and a hardy, vigorous, free blooming variety. The buds are large and long and the flowers scarlet and single enough to open early. Forces well.

ANNA DE DIESBACH, carmine, large and very fragrant. Although an old rose it is still one of our best and hardiest varieties.

ELIZA BOELLE, a hybrid noisette, and among white roses the most prominent in the field. The blossoms are of medium size, quite full, white tinged with pink and borne in great profusion. The plants were bushy and healthy but not vigorous like a Coquette des Alpes.

PINK ROVER reminds one of Malmaison. It belongs to the hybrid teas or the same section as La France does. Its flowers are large, full, flattish when open, white suffused with pink, or rather it is a very pale pink rose, deeper in color at the center. Quite fragrant.

WM. FALCONER.

Palm Notes.

The next three months include the season of most active growth for these plants, and consequently the repotting of any stock of this character should not now be delayed, for each week counts in the growth of palms in the summer and fall. And in this connection it is well to remember that most palms enjoy moderately firm potting, this being especially necessary for those that are likely to be used for decorating, for lightly potted plants soon shake loose in their pots when taken out in a wagon, and it then becomes impossible to water them properly, and as a natural result the plant soon begins to suffer from the combined effects of exposure and lack of moisture.

But at the same time some judgment should be used in the matter of potting, for a stiff, clayey loam does not require much ramming in order to make it firm enough, and where such soil is the only available compost it is well to mix some sand with it.

Different cultivators affect different fer-



LICUALA GRANDIS.

tilizers to assist in the rapid development of salable stock, but one of the most reliable for this purpose is the old stand-by of the plant grower—that is: old thoroughly rotted cow dung, for this seldom does any injury unless used in unreasonable quantities, and in liquid form is also beneficial to well rooted specimens.

Thorough syringing is a great help to the plants, both in promoting the growth and also in preventing the spread of insects, and on bright dry days should be given twice in the day during the summer months.

The practice of plunging the pots of palms in a hotbed mixture to induce a rapid growth is but little used in this country though still in vogue to a greater or less extent among some of our European cousins. This method, however, has but little to recommend it, for the growth secured by this means is too soft to endure much hard usage, and ultimately results in dissatisfaction on the part of the customer.

As the seeds of the various palms in ordinary trade use are received at different seasons during the year, it becomes difficult to fix any special time for sowing such seeds, the only rule admissible being to sow them as soon as received, and if the seeds are in good condition and given reasonable care there will seldom be any trouble in germinating them, though there will be found wide differences in the length of time required for this operation among the different species.

For instance, Latania borbonica will sometimes germinate in ten days from the time of planting, Caryota urens in three weeks or a month, Areca lutescens in about the same time, Cocos Weddeliana in six or eight weeks, and the kentias will sometimes continue to come up irregularly for six months or more; in fact I have sometimes allowed kentia seeds to remain in the stove pots for ten months before potting them off and then discovered among them some that were just germinating.

Seaforthia elegans and Ptychosperma Alexandræ are among the palms that germinate rapidly, these usually starting in from two to four weeks.

But whatever the species it is advisable to place the seeds where they will receive some bottom heat, at the same time keeping the soil reasonably moist without continually watering, for when kept too wet the germs will rot.

Unfortunately, seeds of Rhapis flabelliformis and R. humilis are not offered in the market, and consequently we have to depend on division of the plants to secure a stock of these valuable species, spring and summer being the best time for this operation.

The division of rhapis should always be done in such a manner as to preserve the roots on the divided pieces as much as possible, the latter being potted into small pots and kept rather close until they begin to root afresh.

W. H. TAPLIN.

Licuala Grandis.

This remarkably handsome palm is one of a comparatively small group of stove species and is probably one of the rarest species in cultivation at the present time, from the fact that seeds have only been imported in very small quantities thus far.

It is of dwarf habit, seldom exceeding six or seven feet in height when mature, and produces a rather compact head of bright green leaves, the latter being from two to three feet in diameter and thrown up on slender stems about two feet long.

As will be noted from the illustration the leaves are fan shaped, their margins being divided into bifid segments, and the footstalks are armed with short spines.

Licuala grandis is essentially a warm house palm and needs some care in cultivation, one of the requirements being a rather open soil and good drainage, and at all times a moist atmosphere is necessary for its welfare.

And one of the things to be avoided is the evil of overpotting, it being safer practice not to repot this plant until it begins to show signs of starving, the roots being quite tender and resenting any undue disturbance.

The illustration gives a good general idea of this plant, and was reproduced from a photograph of a specimen in the collection of Mr. H. H. Hunnewell, Wellesley, Mass., the plant in question being certainly a credit to Mr. Harris, under whose long continued care and skill Mr. Hunnewell's establishment has secured an enviable distinction.

W. H. TAPLIN.

Notes and Comments.

A very useful herbaceous plant is Bocconia Japonica, noticeable for its bold effect in lawns or shrubberies. The bocconias are ornamental foliage plants of the poppy family, growing from two to four feet high, some being stove species, but the one in question is thoroughly hardy. The leaves are glaucous, yellowish white underneath; the flower-clusters, produced on the end of the stalk, are yellow-white, resembling the wild thalictrum. A clump of the bocconia makes a desirable feature on the lawn; the plant is not at all common and is admired by retail buyers. They are readily increased from cuttings.

This year we see an increase in the use of aquatics, both in private and public places; the landscape men are making this a great feature in their work. In places where the natural soil is very stiff, lotus ponds are made by simply laying cement on the surface of the excavation, without using brick at all, but in a light porous soil this is not practicable. Men of experience say it is not necessary to make a lotus pond more than two feet deep, that is really all the depth required. The lotus is best by itself, being such a gross feeder that it will crowd other plants out. Where the lily ponds are near the house it will be found prudent to keep a few small fish in them to destroy the larvæ of mosquitoes.

One of the finest shows of aquatics to be seen around New York is at Dongan Hills, Staten Island, where William Tricker, who is well known for his fine chrysanthemums, is now showing equal skill with all sorts of water plants. He grows many choice nymphæas, as well as the nelumbium.

The lotus has the advantage of keeping well after it is cut, making a superb decorative flower, but the foliage is useless to accompany it. Very soon after the leaves are cut they are as limp and shrivelled as rags.

Some little time since the FLORIST had occasion to mention the beautiful Bottle Brush tree—metrosideros, which received much admiration and wonder when displayed in the window of a Broadway florist. It may be well to mention the fact that among English authorities this plant is more generally known as callistemon, C. speciosus being our Bottle Brush. It is a native of New South Wales, introduced some 70 years ago, but it has never become common and may be recommended as a showy thing for greenhouse decoration or use in a private place.

A pretty little plant for the warm greenhouse is the old Eranthemum pul-

chellum; the flower is a clear bright blue, and this color being rather scarce in desirable plants makes the cranthemum all the more attractive. It is an old thing, but not often seen except in miscellaneous collections. The flowers are produced very freely, and the neat dark green foliage makes it a pretty plant at any time. It is nearly allied to the thyrsacanthus, some of the species being synonymous.

Among roses for the retail trade which may be sold in pots, we find Clotilde Soupert taking extremely well, and it may be thoroughly recommended for this use. The little old fairy rose is another suitable for this purpose; people who buy pot roses either in autumn or spring like them to be flowering profusely, and they do not sell readily without this qualification. Hermosa and Agrippina are also excellent for the retail trade. We find in the retail trade that Marchal Neil is the favorite greenhouse climber, being more often asked for than any other. The Climbing Perle is little known out of the trade, but it should take well with amateurs, not only for its continuous blooming but also for the size and excellence of its flowers. EMILY LOUISE TAPLIN.

Berkshire County, Mass.

No more picturesque spot can be found in all the land than this favored country up among the Berkshire hills. The beauty of its scenery and the purity of its air long ago attracted the attention of the wealthy residents of New York and Boston, and to-day the fame of the beautiful private estates of Lenox, Lee, Old Stockbridge and the environs of Pittsfield is everywhere. Nothing that nature can supply, art suggest or wealth procure has been left undone. Naturally it is the paradise of private gardeners. Here, perhaps more than anywhere else in this country, it can be truly said that the gardeners are "lords of the manor." All the beauties of garden, forest and mountain scenery are theirs, and are without doubt a source of enjoyment to them far beyond what they are to their wealth-burdened owners who maintain these princely establishments the year round just for the privilege of a few weeks' occupancy annually and for the balance of the year leave the gardener in unlimited possession.

Such privileges naturally result in the securing of the best talent in the gardeners' ranks, and it is not surprising that a Gardeners' and Florists' Club organized amid such favorable surroundings should show a high average of intelligence and dignity in its membership and should come to be recognized as a horticultural power of no mean rank. The club which was started under such favorable auspices last year, with Col. Cutting as its president, is in an exceedingly prosperous condition. A chrysanthemum show which shall eclipse anything of the kind ever seen here is planned for next November at the Colisseum at Pittsfield, and all the boys are making preparations for a great competition.

Up at Mr. Sloan's Mr. Wm. Griffin has a whole houseful of clean vigorous plants in extensive variety. If they keep up to their present standard until the blooming season they will be hard to beat.

At Mr. Chas. Lanier's jolly Charlie Knight manages to get time, notwithstanding his 240-acre charge, to nurse up a nice batch of the best new varieties, which also at the present time have all the appearance of winners. He has just cause for pride in the condition of his exhibition house this season; crotons, palms and stove plants in variety are healthy and everything is as neat as wax work.

Down by Laurel Lake Mr. C. M. Atkinson presides. He does not enjoy facilities equal to those of some of his more favored neighbors, but his horticultural training stands him in good stead and what he does is well done.

Albert Meredith has charge of Col. Cutting's estate at Pittsfield. As a rose grower he has been wonderfully successful; 20,000 blooms from a house 80 feet long is his record from September to June last season. The orchids are also in fine condition here. There are two big clumps of Cypripedium leucorhodum that would make an orchid fancier's mouth water.

M. K. Jesup's newly laid out grounds occupy the highest situation in Lenox. Naturally picturesque, its beauties have been made the most of by Landscape Architect Bowditch, of Boston, and the planting is progressing rapidly under the hand of Mr. P. Donohue, the gardener in charge.

The Italian Garden.

Referring to the illustration that appeared on page 1125 of last week's issue, Mr. F. L. Harris writes:

"The Italian garden at Mr. Hunnewell's comprises nearly three acres of land and many interesting sketches of it have been appreciated by Europeans generally as well as Americans. The art of gardening 'Topiary work' has here probably been brought nearer to perfection than anywhere else on this side of the water, and all has been accomplished within the past thirty years.

"You will notice the new wall is studded at equal distances with Irish yews in tubs, the trees being eight feet in height, and although they have been in the same tubs for nearly eight years, yet they are in the best of health. The only nourishment given them is plenty of water during the growing season, with an occasional top dressing of guano and bone dust."

Carnation Staking.

Staking carnations in the usual way is a waste of labor, time and money. Take 3-inch mesh wire netting, get it the same width as your beds, cut it 24 inches wide, bend it so that it will form the narrow end of an oval figure, place between the rows of carnations, pressing the edges lightly into the soil, so that the center of the wire arch will be about 10 inches from the soil. The above will suit Silver Spray. The height of the wire depends on the habit of the carnations, as the taller the carnation grows the higher the wire arch should be between the rows. Should the walks in the house be narrow it will be necessary to run netting along the sides. Where there are wide walks I prefer to let them hang over. If florists would try the above (as some of them have) the old-fashioned way of staking carnations would be a thing of the past, and what a blessing! J. H. TROY.

S. A. F.

A CORRECTION.

In our "Entertainment Program," page 1123, it was stated that the White House, etc., would be visited on Wednesday *forenoon*, August 17. We should have said Wednesday *afternoon*. The time between dinner and the McLean reception will be so occupied.

The New York Cut Flower Exchange.

This new venture is the outgrowth of the old "Market," so called, that has existed for years in a couple of small saloons close to the gateway of the Ferry at East 34th street. This old meeting place of the small army of growers from Long Island and their customers from the various retail establishments in New York City and elsewhere has been in years past one of the sights of the town, the only drawback to the entertainment being that one had to get up long before daylight in order to see it, but the visitor was well repaid for his trouble, especially in those good old times when nearly all winter long the supply was short for the demand and the grower was master of the situation.

If a retailer wanted a chance at the nice stuff coming over from Long Island he had to make an early start and indulge in a rough and tumble race with his brother florists to meet and capture the precious load as soon as the ferry boat touched the dock.

But in recent years conditions have changed. With the disproportionate increase in the quantity of flowers grown, the establishment of large concerns on the line of every railroad leading to the city and the rapid multiplication of the commission dealer, the retailers no longer found the necessity for the winter morning pilgrimage and scramble at the Ferry excepting at holidays and other rare intervals of scarcity. The institution still existed, however, but the places of the former patrons were largely filled by hordes of Greeks, who if they did not add to its respectability certainly added much to its picturesqueness, and as one man's money was as good as another's to the growers they were satisfied.

But now the establishment of the new concern puts a different aspect on the situation and judging from appearances the new Cut Flower Exchange is likely to play an important part and to exercise a big influence in the ever increasing cut flower industry of the metropolis.

The location is the second floor of a new building erected close to the old quarters. An association was formed with Mr. I. Forstermann as president, Mr. W. H. Siebrecht treasurer and Mr. A. Schultheis secretary. A working committee of 12 was formed and the result of their labors was the renting for 10 years of this large hall, 404 to 412 E. 34th street. The hall is 75 feet deep by 125 feet long. Wide tables run across it and around the sides, which are measured off and numbered by feet and rented at so much per foot to members and others. The stock of the association is divided into 500 shares at $10 per share, which are sold only to growers and wholesale dealers, no individual being allowed to hold more than 5 shares. A charge of 65 cents per foot per month is made to members of the association and of 75 cents to non-members. Wall space is also let out to supply dealers and others for advertising purposes and a certain portion of the wall tables is reserved for this department of the trade. The hall is open from 5 to 9 o'clock a. m. only.

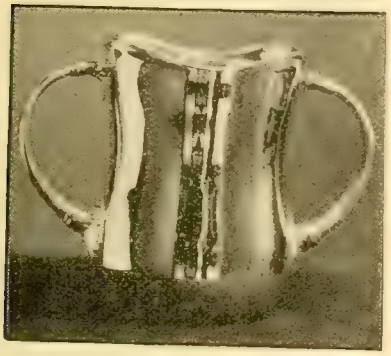
The venture seems to have enjoyed the good will of the retailers and the trade generally and much assistance in furnishing the hall has been given by firms and individuals.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

Coal Dust for Fuel.

Mr. H. Vogel, a florist of Baltimore, has for some years successfully used hard coal screenings or dust for fuel. His method, in brief, is as follows:

After starting a fire with nut coal and allowing it to burn until the wood used in starting is thoroughly consumed, he covers the fire and the whole grate with a mass of coal dust and clay mixed. The clay is thinned with water to about the consistency of cream and one bucket used to eight of coal dust. They must be mixed carefully and his practise is to put on the fire a layer one foot thick.



THE GALT CUP.

He then goes over the whole layer with a poker made of ½-inch pipe and makes holes three inches apart each way through the layer; he claims that this is an essential part of the process, as if more holes are made combustion is quicker, and if holes are not made carefully and entirely through the mass they get closed up and the draft is not sufficient. He then closes his furnace doors, daubs them with clay to make them air tight and depends for draft on a small door managed by a damper regulator.

A fire made thus keeps his houses hot 18 hours, during which time it needs absolutely no attention, and at the expiration of which time, being completely burned out, he breaks up the resulting clinker, takes it out and is ready to begin again. If fire is wanted for a longer time he makes the layer of coal dust and clay thicker. If great heat is required the holes are placed closer together. After the holes are made and the fire is started nothing can be done to it in the way of renewing, increasing or decreasing it until it has burnt out, except that by setting the damper to higher pressure more draft can be secured and consequently more heat.

He uses a boiler of his own construction, being a brick furnace lined with coils of 1-inch pipe and having an ordinary kitchen water heater four feet long by one foot diameter, placed horizontally for a dome. Neither steam guage, water guage or safety valve is used, as he claims the regularity of the heat does away with the need of them. The only conspicuous thing about his apparatus is the depth of fire box required, it being necessary to have two feet clear between grate bars and the dome to allow room for one foot of fire and a bend on the poker 1 foot long to make the holes.

He claims to have heated 4,600 feet of glass last winter with 18 tons of slack and screenings costing from $1 to $2 per ton.

Mr. Vogel also uses coal dust for propagating instead of sand and claims that it keeps sweeter and cuttings root more readily in it. He also makes his own pots, having a small kiln and all the necessary machinery. MACK.

The Bowling Trophies.

We present in this issue engravings of the two cups to be competed for by the Bowling Clubs at Washington.

The Galt cup was presented to the Gardeners' and Florists' Bowling Club of Washington by Mr. Wm. Galt of the Capital city, and will be offered in the name of the club. The cup is of silver, plain, with the exception of some slight ornamentation on the handles. It presents a very rich appearance, and when the name of the winning club is engraved on its polished surface we doubt not it will look still richer—to the winners' eyes at least. The cup is valued at $75.

The Spaulding cup is offered by Mr. T. J. Spaulding in the name of the New York Florists' Bowling Club. It also is of silver and is 13½ inches high and 4 inches in diameter, richly ornamented, as shown in illustration. The reverse side is reserved for an inscription, to include the name of the winning club. It is valued at $100.

The Galt cup will be the property of the club winning same in the contest at Washington. But the Spaulding cup must be won twice by the same club before it becomes their property. Following are the conditions made by the donor of this cup: The cup shall be open for competition to all regularly organized Florists' Bowling Clubs, who shall give 14 days notice of their intention to compete to the manager of the contest, Mr. Theodore Roehrs, 111 W. 30th street, New York City. Teams shall consist of six men each and the trophy shall become the property of the club which first wins it twice, not necessarily twice in succession.

In the Washington notes in this issue will be found the rules under which the contest will be conducted, so far as they have been determined upon at this date.

The contest will take place on the alleys of the Columbia Athletic Club, 17th and G streets, the directors of the above club having very kindly placed the same at the disposal of the Washington Club for the contest.

In addition to the cups there will be a number of prizes offered for the best individual scores.

The management of the tournament and of the contest for the Galt cup is in the hands of Mr. J. R. Freeman, 612 13th street, Washington, to whom all inquiries regarding same should be addressed.

Communications regarding the Spaulding cup should be addressed to Mr. Roehrs as before given.

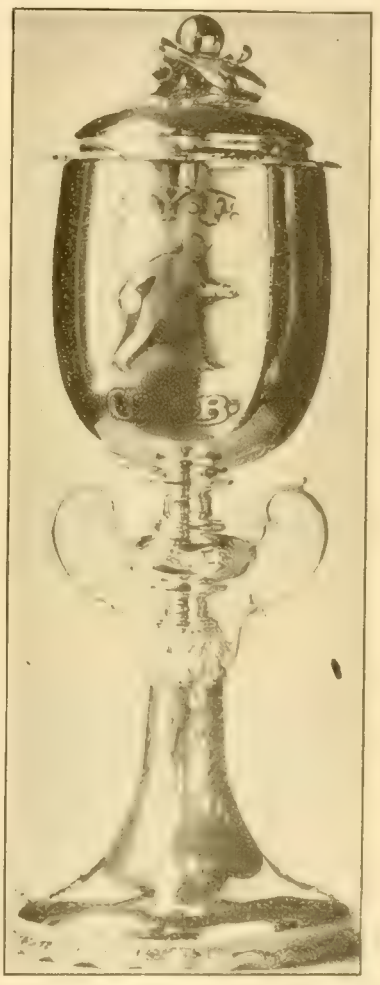
Washington.

Messrs. John N. May of Summit, N. J., and Theo. Roehrs of New York, were in the city Friday in consultation with Capt. Freeman of the Washington Florists Bowling Club. They came over at the request of Capt. Freeman to make final arrangements for the contest for the Galt and Spaulding cups. I am informed that a program has been arranged which they think will be entirely satisfactory to all interested. The two visiting gentlemen speak flatteringly of the alleys in which the contest is to take place and think them all they should be so far as regulations are concerned, but regretting that the hall is not larger, so that the entire association might get an opportunity of witnessing the contest.

It has been determined that the Galt cup shall be the first prize. Three games will be rolled by each club if the number of entries are not numerous, the first and second games to decide the Galt cup contest and the second and third the Spaulding cup. Those having this matter in charge think this the fairest arrangement, taking all things into consideration.

Mr. Spaulding stipulates that a club must win his cup twice before it can become the property of that club, while Mr. Galt makes no such stipulation, but simply says his cup shall become the property of the club winning it at this convention's bowling contest. Arrangements for other prizes are freely talked of. I hope to be able to say more about this next week.

Messrs. May, Roehrs, Freeman and Smith, after fixing the bowling matter to their entire satisfaction, found their way to the Capitol and were there joined by



THE SPAULDING CUP.

Mr. Benj Durfee. This entire committee then waited upon Hon. W. H. Hatch, Chairman Committee on Agriculture, to see what the chances were for getting our charter through before the adjournment of Congress and to urge Mr. Hatch to have the measure passed before the convention if possible. Mr. Hatch had hoped, under the "Committee Calls," to have gotten the matter up in the House last Thursday, but was defeated by the "legislature cranks," who insist upon the regular order, or that there shall be a quorum in the house before any matter of legislation be brought up, and by their

way of fillibustering defeated several meritorious measures called from the calendar by Mr. Hatch, among them a bill to regulate a uniform weight for grain throughout the U. S., a charter for the Society of American Florists and some supplemental legislation with reference to oleomargarine, and thus the hour set apart for committee calls was frittered away. Mr. Hatch is evidently in earnest and intends making another effort in our behalf, at the next suspension of rules. If we fail in getting the charter this session it will not be the fault of Mr. Hatch.

The wheelmen took possession of our town the early part of the week and thousands of them assembled in convention here, lasting three days. They seemed to enjoy our smooth and wide pavements. C. Strauss & Co., with an eye to business, had in their store window at 909 F. street a full size "safety" made of pink roses, white carnations and balsams. It was perfect in all its parts and was really a creditable piece of work, attracting the attention of many, particularly the wheelmen. It was to be presented to the wheelman winning the one-mile handicap race.

The florists, both in the markets and stores, are complaining of the extreme dullness of trade. There is nothing doing. Weather warm, plenty of rain. Parks and lawns are looking remarkably well in this section.

Mr. Wm. R. Smith, chairman of the Reception Committee, would be pleased to have the secretaries of the Florists' Clubs intending coming to the convention to inform him as soon as convenient by which R. R. they intend coming, whether via the Pa. R. R. or the B. & O. This will aid the Reception Committee in its work.

Mr. J. R. Freeman, 612 13th street, chairman Hotel Committee, will take great pleasure in answering any correspondence from clubs or individuals desiring information as to hotels and accommodations for the convention.

C. LESLIE REYNOLDS.

Toronto.

The flower show held by the Electoral District Society is the all absorbing topic for this week. As usual a marked improvement over former years is quite noticeable and the building (Horticultural Pavilion) in which the show is held is now really too small and does not give half the plants, such as large palms, a chance of showing off their gracefulness and beauty. However, without blowing one's own trumpet, I may say that this show could not be beaten as to the quality of the plants on this side of the Atlantic. (Now let some other rooster get up to crow and come out to battle.) As regards the attendance, it has been far above the average and the ubiquitous secretary, Mr. J. P. Edwards, is accordingly elated. The judges were Mr. W. Scott (Great Scott) of Buffalo, on cut flowers and designs, and Mr. F. G. Foster of Hamilton, on plants.

Now to give some short description of the plants, and perhaps I had better go over the list and take them in alphabetical order, though I must skip over some of the entries.

Achimenes, 6 distinct varieties, first Mr. Houston, Central Prison, with some very fine plants; Mr. J. Chambers close behind. Anthuriums, both flowering and foliage, were not so good as in former years; some of the old plants want pulling to pieces. Tuberous begonias came well to the front, Mr. Houston taking first prize with 12 magnificent plants; Mr. Gilchrist also showed some smaller plants very well flowered. The fancy caladiums were simply immense. Central Prison took first prize for 6 very fine plants. Normal Schools first for 12 plants, cannas; the new French and the older sorts made a big display. Coleus not up to the notch of former years, Mr. Watkins of the Horticultural Gardens and Mr. Graham of the asylum coming in first. The ferns were so good and so numerous that I must enumerate them more fully in the 3 varieties. Mr. Houston took first with immense specimens of Microlepia hirta cristata, Davallia Mooreana and Adiantum formosum; Mr. Geo. Vair second with Nephrolepis exaltata, Alsophila australis and Adiantum trapeziforme; Normal Schools third with Davallia Mooreana, Nephrolepis davalloides furcans and Woodwardia radicans. All these plants mentioned were very fine and well grown and would take prizes at any show. In the 6 varieties Mr. Houston was ahead again, and Mr. Reeves of the Reservoir Park second. In adiantums Mr. J. Chambers took first with six "daisies," Mr. J. Cotterill, florist, running a close second. In 12 ferns Mr. Cotterill was first and Mr. Chambers second. Central Prison was first on tree ferns with fine specimens of Alsophila australis and Dicksonia antactica, Mr. Reeves second. Geraniums made a blaze of color, Mr. Brine's 4 plants of the ivy leaf variety being especially worthy of notice. Mr. Wadds, gardener to H. H. Cook, Esq., took first prize with 6 fine gloxinias. A large plant of Nepenthes Mastersii, shown by Mr. Cotterill, with 14 or 15 pitchers, was quite a center of attraction. Orchids were shown by Mr. Houston, Mr. Cotterill, Mr. Chambers and others. The best specimens were of Cattleya gigas, Vanda cærulea, V. tricolor, etc.

Palms were the principal feature of the show and they certainly were very fine. Mr. Vair's Cycas revoluta was first as a single specimen; Mr. Vair was also first with 3 specimens, one of which was a Kentia Balmoreana, for which $220 has been refused. Central prison was first with 6 specimens, and Mr. Reeves second. In palms in 8-inch pots Mr. Cotterill was first, Manton Bros., with a lot just as good, second.

Stove and greenhouse plants, foliage and flowering, were represented by some of the best plants ever shown here, and that is saying a good deal. The principal prizes were carried off by Mr. Houston, Mr. Chambers, Mr. Cotterill and Mr. Reeves. Subtropical bedding plants in 8-inch pots were shown by the hundred; some fine stuff, too.

There were six entries for the most tastefully arranged group of plants, 12 feet by 5 feet. Of course tastes differ and always will, but I really think Brother Foster was a little out in his judgement of these. The first prize group had for a back center a bougainvillea very full of flowers and next it on each side was a justicia, light pink also; but the two pinks together were awful, and in my opinion spoiled the whole group. Mr. Cotterill came in second with a tasty arrangement of high class plants; next Mr. Laing with a group which with a little color would have been the best, a departure from the regular cut and dried sand bank shape.

The decorated dinner tables were a new feature introduced at the instance of the Gardeners' and Florists' Association and they attracted a lot of attention. Mr. W. J. Laing, with a light arrangement of maidenhair and Cocos Weddelliana, took first and Messrs. Grainger Bros., with a heavier floral center, took second prize.

Bouquets, table, hand and bridal, floral designs and such like were shown galore, but as I am afflicted with a complaint that might be called designophobia, I don't intend to give any description of them except to say that they looked very pretty at a distance and that Scott said they were nearly as good as they get in Buffalo. Messrs. Manton, Cotterill, Grainger Bros., Laing and Westwood were the principal exhibitors.

There was also an excellent show of annuals, dahlias, hollyhocks, petunias, pansies, roses, sweet peas, stocks, verbenas, zinnias.

I persuaded Mr. Edwards to have the show photographed, and I hope the FLORIST may think the one that will be sent soon worthy of publication at some future date.

E.

New York.

Florists do not expect much business at this season of the year, but such a dead season has never been experienced before, if the "oldest inhabitant" can be believed. Seaside resorts and steamers alike are away behind their record. One wholesaler who claims to be doing practically nothing now, states that at a corresponding date last year he had a steady and remunerative trade. When the Saratoga season gets well under way, as it will very shortly, there is some hope of a revival.

No visitor to New York ought to go away without seeing the great display of cannas at Mr. Jas. Dean's place at Bay Ridge. The road and sidewalk are considerably elevated above the grounds, hence a full view of the great field of scarlet and green is obtained. It is not an uncommon sight to see the fence lined with a row of people full of admiration and curiosity, for it is a fact that the great majority of people are unfamiliar with the plant as yet and the question as to its name has to be answered scores of times daily, so Mr. Dean says. The most noticeable feature is the great difference between the Madame Crozy and Star of '91, as seen in a mass from a distance. The Star suffers greatly by the comparison. Mr. Dean has quite a lot of seedlings, all from Crozy, but widely different in color and style. One yellow one is a grand deep shade of color. One chance seedling of which he has got up quite a stock already, but as yet unnamed, is unquestionably the best dark foliaged variety ever seen here and is bound to have a run.

H. A. Siebrecht and wife sailed for Europe on the Adriatic July 20.

The lotus flowers in the lake at Central Park are blooming very freely now and are creating quite a sensation.

Baltimore.

With two months more of dullness in prospect the position of the man who is a dealer pure and simple is no ways pleasant; forced to open his store daily and to stay there, or employ some one else to do so, he finds the occasional orders he secures and the few sales he makes come in at such uncertain hours that it is necessary to open as early and keep open as late as in the midwinter, or else by some perversity of chance miss his best customers whenever they are in a hurry. The man who is both a grower and dealer finds the dull season very acceptable in some ways, and in fact

would be pretty hard pushed if, as in Australia, Christmas came in midsummer. If to the rush of holiday trade the repairing and painting, glazing, etc. of summer were added he would be very apt to slight something or worry himself into a premature grave. As things are at present he shortens sail in the store and is to be found more frequently minus all superfluous clothing superintending pipe fitting in greenhouses where the temperature is extra torrid, than in the shady place behind the counter, or he is helping to shift and go over his stock of palms, or get up those future prize winners at the exhibition.

A trip to the place of Mr. Wm. Fraser, our genial president, showed everything very flourishing, a fine stock of young palms and his newly planted roses in the benches with shoots a foot long. Among his orchids were several odonts and a very fine Aërides odoratum in bloom. The "mums," though, were the pride of the place, and they deserved to be, for they are fine looking plants already and if they are destined to defeat at the show it will not be by anything imperfectly grown to this date.

The only flowers the market may be said to be fully supplied with in good quality are Nymphæa odorata and balsam; everything else seems more or less "off," but the double white balsam and the white water lily are plentiful and good, and good enough apparently for much funeral work, at least in the minds of those who put it up. The lilies can be had for 50 cents per 100, and the balsams for 20 cents. Roses are fairly plentiful at 3 for La France and Perle, about the only varieties to be had in quantity.

MACK.

Boston.

Trade very dull still. Little doing excepting funeral work and not much of that. Carnations are in short supply and sell at sight, especially the white ones. Roses as a rule are poor, very few decent Mermets, Brides or Perles being seen. La France and Malmaison, however, are coming in fair quality. Sweet peas are terribly overloaded and will not pay for the picking.

At Horticultural Hall on July 23 there was a very full exhibition. From J. S. Fay came another large display of hollyhocks. It was prize day for native ferns and gloxinias. Mrs. P. D. Richards took first prize for ferns and W. E. Coburn second. Mrs. Richards showed 52 species and varieties. For display of gloxinias A. Galbraith took first and N. T. Kidder second, but Mr. Kidder's collection, although much the smallest, contained some varieties that exceed anything ever shown here. Benj. Grey made a good showing of nymphæas, including N. odorata exquisita, a beautiful little miniature pink variety, marliacea alba and marliacea chromatella, pygmæa helveola and odorata sulphurea, the latter, a hardy yellow, being awarded a certificate of merit. A collection of superb salpiglossis from N. T. Kidder was much admired.

Friends of ex-President Norton of the S. A. F., will be sorry to learn that his father died the morning of July 25.

A. P. Calder is making improvements in his Boylston street store. When completed it will be nearly double its former size.

Prof. Chas. S. Sargent started overland for Vancouver's on Wednesday, July 27, from whence he will sail for Japan.

Mr. Archie Smith, foreman of the seed department at J. Breck & Sons', is rejoicing over the advent of a ten pound son.

Visitors in Boston the past week: Louis Menand, Albany, W. A. Stiles and H. A. Siebrecht, New York.

Philadelphia.

The "Sure Catch" fishing club, Commodore Westcott in command, starts for Barnegat Bay Monday, July 25. To all who go there is a good time in store, as Commodore Westcott is untiring in his efforts to see that everything goes right and that everybody are enjoying themselves to the full extent. A number of the brethren from New York are also expected.

David Bearn was unfortunate enough to break his arm last Tuesday. It has been set and is doing very well. Davy takes his mishap very philosophically. Pity he hasn't somebody to help him nurse it.

Robt. Craig has been in Pittsburg and Allegheny the past week in the interests of the Horticultural Department of the World's Fair. He has been engaged by the Penna. commission to look after the shipment of all plants and has quite a large job on his hands.

On Saturday, July 16, a delegation of florists from the city stores were invited to Mr. H. A. Dreer's nurseries at Riverton to play a game of ball. Quite a number accepted and everybody had a royal good time. After the game an elegant lunch was partaken of and the merits and demerits of the game freely discussed. "If it hadn't been for that one inning, etc, etc." The score was something like 5 to 11 in favor of the Riverton boys. A return game is to be played in Phila. the first Saturday in August and we hear of some wonderful things that are going to happen then.

Mr. Wm. F. Dreer sailed for Europe July 18 for a stay of a month or six weeks.

Longinette has won the match for the sweepstakes prize and places in the team to bowl in Washington. The full team has not yet been selected, but Charlie is sure of a place at any rate.

K.

Cincinnati.

A large delegation of florists took a trip through the Kentucky hills the other day and on their way visited several brother florists who joined the party ostensibly to take possession of Frank Huntsman's beautiful place. Upon arrival they found the genial Frank perched upon a stump with field glasses to his eyes, viewing the beautiful scenery along the Ohio river.

The place is situated upon a bluff about 300 feet above the river and the scenery for 20 miles around is certainly very picturesque. After viewing the scenery, the greenhouses were gone through, and everybody claimed that when the fall show comes around Huntsman will be "in it," for his "mums" are in very fine condition.

After the greenhouse bath, the "Genial Frank," whose hospitality is proverbial, invited the boys in to a nice lunch, which they consulted as only florists can. Several toasts were responded to, after which the afternoon was spent in outdoor games and the Kentucky boys were found to be experts at pitching quoits.

The party left after the sun had long been behind the western hills, and all pronounced it an afternoon well and agreeably spent.

H. L. S.

St. Louis.

Mercury trying to reach the 100 mark. July 19 at 1:30 p. m. the thermometer registered 96.6°. A few minutes later a dark cloud of dust was seen sweeping down from the north and the temperature dropped to 75° in 20 minutes. A few limbs were blown from the trees, but no great damage was done.

Business is very dull. Roses and sweet peas in abundance. Roses bring $3 and sweet peas 25 cents.

The St. Louis Florist Club held a special meeting July 23 to discuss the report of the transportation committee. It was decided to go in a body by the M. and O. A sleeper will be chartered for the trip. The delegation will leave St. Louis Sunday morning, crossing the Alleghenies by daylight, thus affording views of some of the most beautiful scenery in America. For further particulars address Secretary E. Schray.

Mr. R. Tesson is the only specialist in the city, in fact I believe he is the only one growing cut flowers exclusively for sale to the trade. This ought not to be. There is room in St. Louis for a half dozen such plants to grow roses, and the same number devoted to other specialties. Why should St. Louis send to New York, Boston and Chicago for a large portion of her cut flowers? Some claim that the unfavorable climate is the reason, but any one who will take the trouble to visit our best growers occasionally can not long entertain such an idea. The only reason is a lack of enterprising growers. We have some good growers of mixed stock, but their clip is disposed of at retail in their own stores, while all the stores which have no houses of their own (and these constitute about one-half of the flower stores) depend on shipped stock.

St. Louis has the best shipping facilities of any city in the country, but she is not in the race when cut flowers are in demand, because she has none to ship. We have one firm in the wholesale plant and bulb business that is reaping a harvest from recognizing the shipping facilities that are offered here. There is a harvest for growers of cut flowers who can comprehend the situation.

J. C. DUFFEY.

Chicago.

Weather boiling hot. Trade as dead as it can be.

Mr. John Lane has returned from California and announces his intention of attending the Washington convention.

There promises to be an unusually large delegation from Chicago and vicinity to Washington.

Among recent visitors to the city were Elias A. Long, Buffalo, editor of *American Gardening*; Sam'l Murray, of Probst Bros. Floral Co., Kansas City; C. W. Reimers, Louisville; and F. W. Stukas and wife, Clinton, Ia.

Detroit, Mich.

Quite a liberal list of premiums is offered in the floral department of the Detroit International Fair and Exposition, which begins August 23 and remains open until September 2. The premiums in this department amount to $1,639, of which $650 is offered for plants in pots, $304 for cut flowers, $405 for floral arrangements and $280 for examples of carpet bedding, vases, etc. Mr. B. Schroeter, corner Elmwood avenue and Champlain street, is superintendent of this department, and copies of the premium list may be obtained from him. The entries will close August 15.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

H. AUGUSTINE, Normal, Ill., president; Z. K. JEWETT, Sparta, Wis., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A. WHITNEY, Franklin Grove, Ill., treasurer. The Eighteenth annual meeting at Chicago, June, 1893.

The Future Work of the American Association of Nurserymen.

BY HON. S. M. EMERY.

The future of this association means the intelligent use of the present, and the lines projected for future work must be co-extensive with those that are now leading to wise results.

"In union there is strength." It is not the words of the few, be they never so wise, that carry conviction, but the intangible, irresistible power of the represented multitude, which is far reaching. It is not what *will* happen, but what *might* happen that influences action, both in those high in authority, as well as those who serve the king. The potentialities are the governing spirit rather than the actualities. This being true, we have a law for organization in this as well as kindred bodies.

The casual visitor might question the advantage of our annual meetings, or the individual benefit as compared with the expense of attendance. This idea would be very erroneous, and that attendant who returns home unrecompensed has only himself to charge with ill spent time and means.

Our officers are charged to see that good and wholesome instruction is provided for the body at large. No nurseryman can afford to be deprived of the actual personal acquaintance with his fellows, and lacking in this, his business of necessity must suffer from such privations.

The information gained from actual experience is limited; life is too short to exemplify every problem, and we must put ourselves in the way of the experience meeting where success and failure are equally exploited.

Knowledge is the grouping of comparisons and a history of the work of others, is the cross cut over the commons that lie beside the pathways of our own lives. This being true, organization and means of consultation must exist, and that which is shown to be of value to one must be for the betterment of the whole. Few are content to do in the future the same as in the past; each business is being extended and the careful control of all departments is imperative.

The nurseryman of to-day is placing too much attention (if such a thing is possible) upon the item of production, depending too much on disinterested parties to dispose of his wares. That a first class tree or plant be produced at a minimum of cost is of no more importance than that the same article be placed to the best advantage with the consumer. That the tree or plant be placed upon its proper merits is the vital duty of every producer.

A personal acquaintance and observation of the workings of the present system of sale of stock prompts the writer to refer to the lack of sympathy oftentimes existing between the producer and consumer.

Do not persuade yourself that because you sell trees in job lots to dealers, who redistribute them to the planter, that after constituting such dealer your duly accredited agent you are not morally responsible for his work. The dealer will spare no pains to impress your individuality upon the customer, and the result of his work is located at your door, where it rightfully belongs.

In the majority of cases the goods are sold upon the credit of the firm who grew the stock, and is there any righteousness or justice in that nurseryman who is a heavy propagator of all that will grow well and make a fine appearance, regardless of quality and season, who advances cash to a foreman to conduct a sale and who, when the sale is made, disavows any further connection with the transaction because he has settled with his salesman on a wholesale basis, the agent's salary and profit, being represented by the amount left in his hands after discharging his obligations to the nurseryman and the expense of his sale. Most assuredly this is not business as between man and man.

Food for reflection may be found in considering the relation of the business to the agent with the end in view to strengthen the bond between the producer and consumer.

The theory of selling fruit to-day may be compared to that horseman who would knock out the eye of his horse so that he might be able to creep up on the blind side and catch him unawares.

The man is selling for each of us who apologetically pleads when called down for flagrant imposition and gross misstatements, "there is no use talking, you have to humbug the public before it will buy." Set him down for an arrant liar and know that for each dollar he books he loses sale for another by his outrageous misstatements.

We are constantly harassed by the fact of doing a great deal of business and of not having enough to show therefor. Do you know that the reason for this is the usual loss to the planter and that in many cases he is receiving and paying for two trees to make a success of one?

Is it not reasonable to suppose that the selection of variety and location of orchard have more to do with this loss than any other two causes? Are you not responsible for permitting the sale of tender sorts and for employing salesmen incompetent to advise judicious sites?

Is it not reasonable to expect that the planter would prefer to pay the same amount for one good tree that he pays for two, one of which he now loses? Would it not materially alter the problem if you did half the present business for the same money?

Ought we not as members of this association to discountenance the practice of selling so many sorts? Does the apple orchardist require more than the best summer, fall and winter apple, with the usual distinction of sweet, sour, cooking and eating from hand? Allowing, of course, for the natural distinctions or divisions of latitude and climate, would not this be in the line of concentration and consequent economy?

There are ways and ways of doing this. The writer has seen a fine young orchard of Gano, Salome, Duchess, Tetofsky, Wealthy, Arkansas Black, etc., 150 trees in all and each and every tree dug from a block of Whitneys. This is a little too much concentration and reflects no credit on the selling firm.

Given one locality in which fruit begs a market and 99 may be found in which it is a paucity. The same is true of shades and ornamentals.

As long as babies are born so long will there be market for the wares of that nursery firm that does a conservative, legitimate work.

From personal experience in what should be called the great northwest I believe that the lines of reformation must be wrought on the wise production and honest distribution of our wares, and that associated effort may well be employed in the elimination of all features that will not bear close scrutiny.

The firms that dare not question the workings of their representatives are hitching the cart before the horse, and that concern that holds its men to a strict accountability is the one that in time will be honored and sought for as a representative firm by the very men whose short lived policy now is tending to wreckage.

In these days of pessimistic views I may be pardoned for quoting a recently received letter:

"I have sold brush a great many years, and I know it is far easier to sell trees to-day than it was 10 or 15 years ago in ———— and ———— and in my travels through the country I firmly believe that three-fourths of the living trees in ———— to-day came from ————."

The people to whom reference is made endeavor to control their salesmen and to have goods sold on merit.

It is difficult for the eastern man to believe that America as a whole, especially the Union, is only beginning to develop, and that our children's children, who will carry on our work, will be taxed to their uttermost to satisfy a growing demand based upon fair business methods.

Chairmen of Committees of the National Gardeners' Club of Washington for S. A. F. Convention.

Reception—W. R. Smith, U. S. Botanic Garden.
Executive—Benj. Durfee, 905 F street.
Exhibition—C. F. Hale, 719 14th St.
Hotel—J. R. Freeman, 612 13th St.
Entertainment—W. S. Clark, Bladensburg Road.
Badge—W. H. King, Wenthorpe Heights D. C.
Bowling—J. R. Freeman, 612 13th St.
Decoration—J. H. Ley, Anacostia, D. C.
Advertising—C. F. Hale, 719 14th St.
Bureau of Information—C. Leslie Reynolds, 1718½ 10th St., N. W.

ROME, N. Y.—The two "Trojans," Morris R. Jones and C. B. Humphrey, are both adding quite extensively to their already large establishments, the former a rose house 150x25, palm house 60x20 and a new office, and the latter two houses, one 92x16 and the other 80x10, for roses. Both gentlemen report excellent business.

MR. WM. SCOTT, of Buffalo, on July 15 lost about 8,000 feet of glass by a hail storm which visited the northern portion of Buffalo. Mr. Scott was insured in the Florists' Hail Association, and he will get his money from the F. H. A. in time to go to the Washington convention.

DO YOU WANT an alphabetical list of the roses in commerce in America, with the class, habit, date of introduction, name of introducer, and a brief accurate description of each one, and with synonyms all noted? You will find such a list in our new trade directory and reference book.

SEND in your advs. now for our convention supplement.



GARDINER'S
Rare and Beautiful
PANSIES.

NEW SEED of the following noted strains is now ready. It will be observed that prices are much lower on most of the newer strains this year. Your orders will be esteemed.

	Trade Pkt.	⅛-oz.	¼-oz.	½-oz.	oz.
Pansy, English Choicest Fancy	$.50	$1.50	$2.75	$5.25	$10 00
" English and Scotch Show	.50	3 00	5.00		
" Cassier's Superb Giant	.25	1.00	1 75	3.25	6.00
" Roemer's Giant 5 spotted	.50	3.00	5.00		

	Trade Pkt	⅛ oz.	¼-oz.	½-oz.	oz.
Pansy, New Od'er or Prize Blotched	$.25	$1 00	$1.75	$3.25	$6.00
" Bugnot's Giant French	.50	1 00	1 75		
" Giant French Stained	.50	1.00	1.75		
" Trimardeau Giant French	.25	.60	1 00	1.75	3.00

Our International Prize Strain contains all the above sorts in mixture as well as many other beautiful varieties.

PANSY, GARDINER'S "INTERNATIONAL PRIZE".....Trade Pkt. 50c.; ⅛ oz. $1.25; ¼ oz. $2.25; ½ oz. $4 25; 1 oz. $8.00.

JOHN GARDINER & Co., SEED GROWERS, IMPORTERS AND DEALERS, 21 N. THIRTEENTH STREET, PHILADELPHIA, PA., U. S. A.

CHOICE FORCING ROSES

500 Duchess of Albany, 4-in. pots, finely prepared stock for planting on benches.

500 Meteor, 4-inch pots, finely prepared stock for planting on benches.

AT $15 00 PER 100.

We had same prepared for our own planting, and are therefore in best condition.

Also Perles, Niphetos, Mermets, 3½-inch pots, at $7.00 per 100, fine stock. And Perles, Mermets, Bon Silenes, Mme. de Watteville, 2 inch pots, at $3.50 per 100.

ADDRESS **NANZ & NEUNER,**
LOUISVILLE, KY.

1,500
A No. 1 Perles.

Healthy, clean stock, 4-inch pots; also several hundred Mermets and Brides, $10 per 100.

SALTER BROS.,
42 W. Main St., ROCHESTER, N. Y.

IMPORTED H. P. ROSES,

Worked low on the Manetti Stock, offer the best results to the florist blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

TEAS $30.00 per 1000
HYBRIDS 40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,
LOUISVILLE, KY.

WATER LILIES.

HARDY AND TROPICAL, DAY AND NIGHT BLOOMING VARIETIES.

All the newest and choicest in cultivation Catalogues free. Special trade rate.

WM. TRICKER, Dongan Hills, S. I., N. Y.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the AMERICAN FLORIST.

THE ATTENTION OF FLORISTS

and others is invited to our immense stock of *FIELD GROWN*

HYBRID PERPETUAL ROSES for FORCING,

Ready for Shipment October 1st.

The plants are principally 1 year budded low on Manetti, all of our own growing (*which are superior to the imported*) and embrace the best kinds suitable for the purpose. We have also a fine lot of *Climbers and Mosses. Parties desiring particular varieties should send in their orders early as possible. Prices compare favorably with those of European growers.*

CORRESPONDENCE SOLICITED. ORDER EARLY. CATALOGUE FREE.

ELLWANGER & BARRY,
Mount Hope Nurseries, ROCHESTER, N. Y.

ROSES.

We offer for sale this season 20,000 FIRST QUALITY FORCING ROSES grown from strong cuttings in 3 and 4 inch pots, ready for immediate planting.

LA FRANCE and AMERICAN BEAUTY, 3-inch pots, $9 00 per 100; 4-inch pots, $12 00 per 100.

WABAN,	MERMET,	SOUV. DE WOOTTON,
SAFRANO,	BON SILENE,	PERLE DES JARDINS,

3-inch pots, $7.00; 4-inch pots, $10.00 per 100.

☞ Send for rose circular. We wish every florist needing roses to read it.

J. L. DILLON, Bloomsburg, Pa.

100,000 ROSES

for florists' planting, strong, healthy plants of the leading varieties for forcing.

PERLE, SUNSET, WABAN, LA FRANCE, MERMETS, BRIDES, NIPHETOS, PAPA GONTIER, MME. CUSIN, MME. WATTEVILLE, MME. HOSTE and GEN. JACQUEMINOT.

20,000 CHRYSANTHEMUMS, 100 varieties, including Novelties of '92, and the best standard sorts. Send for catalogue.

A. N. PIERSON, Cromwell, Conn.

Forcing Roses.

NOW READY FOR PLANTING

All the leading varieties, Beauty, Perle, Meteor, Wootton and others. Fine plants from 3-inch pots, light weight for shipping. You will find it to your advantage to plant nothing but carefully selected stock.

M. A. HUNT, Terre Haute, Ind.

ROSES.

Waban, Mermet, Perle, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, Souv. d'un Ami. Fine, healthy stock from 2½-inch pots $5 00 per 100; 45 00 per 1000.

SMILAX from 2½-in. pots, strong, $3.00 per 100; $25.00 per 1000 Send for price list.

WOOD BROTHERS, Fishkill, N. Y.

FORCING ROSES.

Leading sorts, 3 and 4-inch pots.

A. S. MacBEAN, Lakewood, New Jersey.

SMILAX AND FORCING ROSES.

Prices, varieties, etc. on application.

McCREA & COLE, Battle Creek, Mich.

TUBEROUS ROOTED BEGONIAS

from pots, per 100, $4.00; separate colors, $4.50.

Also small plants by mail at $2 50 and $3 per 100. They will bloom yet this year and you know what you have for next.

BRAUER & RICHTER, McConnelsville, O.

Chrysanthemums.

2½-inch pots, 20 leading sorts for cut flowers, $3.00 per 100. The same, 3½-inch pots, $4.00.

CYCLAMEN PERSICUM GIGANTEUM, assorted colors, 2¼-inch pots, $6.00 per 100. Same from 3-inch pots, $8.00 per 100.

Address **J. G. Burrow,**
FISHKILL, N Y

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Utica, N. Y.

Peter Crowe is quite a land owner now, he having purchased 24 acres just outside the city limits. At present he will raise grain and fodder for his stock, but if his business increases the next few years as rapidly as it has in the past few, he will cover his new purchase with glass. Plans are already made for three new houses, of which two will be 65x20 and one 185x11, for roses, violets and palms.

J. C. Spencer will build two houses, one 50x21 and the other 50x10, for roses and violets.

The sales of bedding plants this season was very large. There was not enough stuff to fill the demand, though last year the growers were overloaded.

Mr. Wm. Matthews reports that he has had all he could attend to in shipping orchids, the demand for which steadily increases. His house of grapes is looking A 1, thanks to the energy of his son Fred. He has been cutting some early Hamburghs that realized $1.50 per lb. in the home market. He will build a new carnation house 100x20. B.

SEND in your advs. for our convention supplement early and thereby oblige the publishers, as well as securing the best display.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not a limited under this head.

SITUATION WANTED—By a florist of 12 years' experience in growing roses, palms and cut flowers. Address O K. 176 York St., Cincinnati, O.

SITUATION WANTED—By an experienced florist as second man on inside work. Skilled designer. Best references Address O E. care Am Florist.

SITUATION WANTED—By an experienced and reliable western florist to handle commercial place. If not successful, will expect no salary N E N. care Am. Florist, Chicago.

SITUATION WANTED—By a florist and gardener; 10 years' experience in Europe and U. S.; age 25; single. Private place preferred. Address A. JOHNSON, box 530, Lake Geneva, Wis.

SITUATION WANTED—As rose grower and general assortment of bedding plants and cut flowers on commercial place. Chicago preferred. Would run a place on shares. Address P. O. Box H, Newtonville, Mass.

SITUATION WANTED—By a married man as foreman in a commercial or private place; 20 years' experience; understands the business in all its branches. Good references as to experience, etc. Address W. 522 Pine St., Scranton, Pa.

SITUATION WANTED—By young German florist, have had 12 years experience in pot culture and landscape gardening. Northwest preferred. First-class references. Address HENRY WAGNER, care T. C. Ochlenschlager, box 227, Oconomowoc, Wis.

SITUATION WANTED—To take charge of commercial or private place where several are kept. Over 22 years' experience in roses, carnations, chrysanthemums, decorative and bedding plants, forcing of bulbs and making up. Good references. State wages. Address FLORIST, 129 N. Clark St., Chicago.

WANTED An industrious young florist with good knowledge of general greenhouse work. No other need apply. A. BARBE, Kansas City, Mo

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FOR SALE—One conical boiler, will heat 600 feet of 4-inch pipe; been used 4 years. Price $40.00. Address HANS NIELSON, St. Joseph, Mo.

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FOR RENT—One of the best paying florist stands in Philadelphia; store, hothouse and dwelling; established 23 years In consequence of ill health owner is compelled to retire. Will be rented low to a responsible party. Address R. C. SNYDER, 727 Walnut St., Philadelphia.

FOR SALE OR RENT—Rose growing plant containing 25,000 square feet of glass, with property, situated 25 miles from New York City. Stock and houses in A 1 condition. Houses all planted; mostly American Beauty and La France. Will sell on easy terms. Address ROSE GROWER, care Am. Florist.

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for practical florist—South. Small capital. Cut flower trade upwards of $4,000 yearly at retail. No competition in growing. Will help the right party in getting started. Must be No. 1 man. Address W, care American Florist, Chicago.

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I offer my business of rooted cuttings, stock, greenhouses, etc., at a fair price. The greenhouses to be moved from present location. Correspondence solicited.

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Twenty greenhouses, all heated by steam, in a large western city; well located for business, being within one block of principal cable line and doing a business of $15,000 to $20,000 a year. The place is well known and does a large shipping business in adjoining states. One half of the houses are at present devoted to cut flowers, balance to plants Stock, tools, wagons, horses, etc to be bought by the one leasing the place This is a good opportunity for anyone who has the capital to run a place of this size. And I will rent the place low as other business in which I have engaged occupies my entire time.

Do not answer this unless you mean business and have the capital which a place of this size demands. Address

BOX 50, care Am. Florist, Chicago.

DRACÆNA INDIVISA,

3, 4, 5, 6 and 10-inch pots, prices, $8.00, $14, $18, $30, $75, $100 per 100.

MERMETS, 4-inch, $8.00 per hundred.

6,000 CUT SMILAX, will go for $12.00 per hundred.

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MORTON GROVE, Cook Co., ILL.

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CYPRIPEDIUM SPECIABILE, strong blooming clumps, $6.00 per 100.

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A complete line of Wire Designs.

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FINE SUPPLY
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HARDY CUT FERNS
MOSS {SPHAGNUM AND GREEN SHEET.
A 1 IVY LEAVES.
BOUQUET GREEN and FESTOONING of all kinds in any amount on hand.
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BOSTON, July 26.

Roses, Niphetos	1.00@ 2 00
" Mermets, Brides	2.00@ 3.00
" Malmaison	2 00@ 4.00
" La France, Wootton	4 00@ 5.00
Carnations	.75@ 1 00
Stocks	1.00
Asters	1.00@ 1 50
Pink Pond Lilies	8.00
Adiantum	1 00
Smilax	12 50
Asparagus	50.00
Sweet peas, per 1000	.35@ .50
Candytuft, per bunch	.25

NEW YORK, July 26

Roses, Mermets, Brides	2.00@ 3 00
" Perles Niphetos	2 00
" Gontiers	.35
" La France, Albany	2.00@ 4 00
" Meteors	1.00
" Beauties	6.00@12.00
Carnations	.50
Valley	6.00
Adiantums	.50
Sweet peas, bunch	.02

Market flooded with flowers of all kinds.

PHILADELPHIA, July 26

Roses, La France, Albany, Brides	2.00@ 3 00
" Perles, Niphetos	2 00@ 3 00
" Marie Guillots	2.00
Carnations	.50@ 1.00
Sweet peas	.35@ .50
Valley	6 00
Cornflower	.50
Water lilies	.35
Smilax	15.00
Adiantums	.75@ 1.00
Asters	1.00

CHICAGO, July 26

Roses, Perle, Niphetos, Gontier	2.00@ 4 00
" Mermets, La France Hoste	3 00@ 4 00
" Bennetts, Dukes, Woottons	3.00@ 4 00
" Albany, Bride	3 00@ 5 00
" Am. Beauties	8.00@16 00
Carnations, long	1.00
" short	.50
Callas, Harrisii	10 00
Adiantums	.75@ 1 00
Smilax	16.00
Pansies	.25
Gladioli	8.00

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Successors to WM. J. STEWART,
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Wholesale Florists
AND JOBBERS IN FLORISTS' SUPPLIES,
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Also entrance from Hamilton Place through Music Hall.
We keep a large supply of Fancies and Carnations always on hand. Return telegrams sent immediately when unable to fill orders.
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Summer prices, 15 cents per string. Special attention to orders by wire.
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WHOLESALE DEALERS IN AND SHIPPERS OF
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13th & Chestnut Sts.,
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SAMUEL S. PENNOCK,
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38 S 16th Street, Philadelphia, Pa.

The Seed Trade

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

The Employes.

It has often occurred to the writer—why the employes of the American seed houses should not have an association as well as the proprietors. If the latter find their meetings of so much benefit how much more would their help? The bosses have everything to say, while their men have to be silent, because, although having interests in common, they never have the opportunity to consider *together* the experiences of the past or to guard against the possible emergencies of the future.

It is a well known fact that those working in the seed stores in this country are shamefully underpaid—as a rule—considering the strain and long hours of a busy season, and that when the rush is over their situations are not secure.

One Boston firm has shown a laudable desire to ameliorate the condition of the young seedsman by establishing an employment agency for such as may be in want of work. But have the men made any effort themselves to improve their state? If other firms were to take a particle of the interest which this firm has shown undeniable proof towards strangers in their own hands, such an association as the writer hints at would be unnecessary.

Now that business in the seed trade is nearly at a standstill a move might be made in the direction of establishing a club for themselves. It does not appear fair that out of all the employers of labor in the nursery and seed trade in the states one firm should assume all the trouble of attending to the wants of the employes, no matter how willing these Boston gentlemen may be, and especially when the men have the power to better themselves if they care to move in the right direction. Perhaps the AMERICAN FLORIST could do as much as the men if it would open its columns for a few weeks to those who care to discuss the above.

B. S. SCOTT.

[The statement that seed store employes are underpaid in this country will to some require proof, as we understand they receive more in America than in any other country. Regarding another question raised, that of "employment agency," we are informed that nearly every American seed house keeps on file regularly a list of all seedsmen, gardeners and florists in want of places, at, in many instances, quite an expense in time and correspondence.—ED.]

INCORPORATED.—The New Seed Company, Chicago; capital stock $10,000; incorporators, A. T. Armstrong, H. W. Simmons and George C. Wright.

Sitting Flowers.

Here is a specimen of the New York *Evening Advertiser's* exclusive horticultural information as dispensed to its appreciative readers:

"Delphinium formosum is now in a Broadway florist's. This is a very handsome shrub. Acillia is also sitting in a pitcher near by this delphinium formosum. Quantities of the pink orchid anthurium sit near by."

LILIUM HARRISII (Bermuda Easter Lily).

FIRST CONSIGNMENT received. SECURE our extra large sized bulbs by placing your orders NOW, and COMPARE our prices and sizes before ordering elsewhere. We are now in position to ship any number. Send for samples and prices.

LILIUM HARRISII.

	Inches.	Inches.	Inches.
OUR UNEQUALLED LARGE SIZES:	6-7	8-9	10-11
OTHER DEALERS' SIZES:	5-7	7-9	9-11

NOTE DIFFERENCE IN CIRCUMFERENCE OF BULBS.

Ours contain no small Bulbs whatever, whereas those usually sold contain at least 50 per cent. of the smallest size we exclude entirely.

FREESIA REFRACTA ALBA. Large bulbs measuring 1 to 2 inches in circumference ready for delivery.

NOVELTY.

DWARF CALLA LILY "THE GEM". Large flowering bulbs, $20 00 per 100. Special price for large quantities. Grows from 9 to 12 inches in height; flowers smaller, purer white and more profuse than the common Calla, which makes it indispensable for design work.

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FREESIA REFRACTA ALBA.

	Per 100	Per 1000
FIRST SIZE	$.75	$5 50
SELECT	1 00	7.50
EXTRA SELECT	1 25	9 00

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LILIUM HARRISII.

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FROST RIPENED.

BEST HAMBURG PIPS.

ASPIDISTRA, variegated leaved.

FICUS ELASTICA, spring propagated.

Get lowest quotations, and order soon from

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Krelage's Wholesale Bulb List

for the present season (No. 460) is now ready and will be sent gratis and post free to nurserymen, seedsmen and florists only.

A GENERAL DESCRIPTIVE CATALOGUE

may be had also gratis and post free. First part (No. 455 A) containing **Gladioli** and all other Bulbs for Spring planting, was published in January. Second part (No. 455 B) devoted to **Dutch Bulbs, Etc.,** to be published as soon as possible.

Please write directly to

E. H. KRELAGE & SON,
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FOR SALE CHEAP,

PRIOR TO REMOVAL.

PALMS.

LATANIA BORBONICA.

2½-inch	$ 5.00	per 100
3 "	7.00	"
4 "	20.00	"
5 "	50.00	"
6 "	75.00	"

ROSES AND GENERAL BEDDING STOCK.

7,000 2-inch H. P's, good varieties.
7,000 2, 3 and 4-inch Teas; forcing stock.
1,000 2-inch Climbers.
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General assortment of Florist's stock.

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	Per 1000	Per 100
SCARLET	$4.25	$.60
RED & YELLOW	7.25	.85
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Now is the time to get your Stock for Winter Trade.

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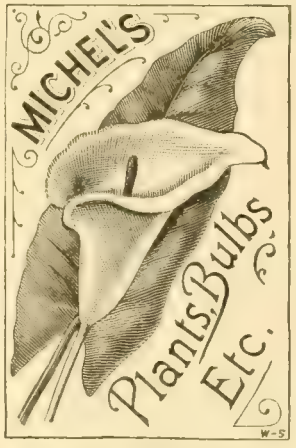


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LILIUM HARRISII and BULBS for Winter Forcing.

Send for Special prices or come and examine our stock. It speaks for itself.

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Rose Hill Nurseries, **New Rochelle, N. Y.**



Write for wholesale list.

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BLOOMINGTON (PHŒNIX) NURSERY.
600 ACRES. 13 GREENHOUSES.

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We offer a large and fine stock of every description of **FRUIT and ORNAMENTAL TREES, Shrubs, Roses, Vines, Small FRUITS, Hedge Plants, FRUIT and FOREST TREE SEEDLINGS.** Priced Catalogue mailed free. **Established 1852.**

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Successors to SIDNEY TUTTLE & CO., BLOOMINGTON, ILL.

ADIANTUM CAPILLUS VENERIS

The coming Adiantum for the cut flower trade. The reasons why because it is

Best for the grower:
1st. Because it can be grown successfully in a greenhouse with a mixed collection of plants.
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3rd. It requires no season of rest.
4th. It will stand watering with the hose and fumigating with tobacco smoke.

Best for the Cut Flower man:
1st. Because of its density and dark green color; six fronds will go as far as twelve Cuneatum.
2nd. Because it will keep in perfect condition for from four to six weeks in the ice box.

Best for the Retail Buyer:
Because it lasts three times as long as Cuneatum. Customers ordering in our store almost invariably ask for the kind that don't wilt.

In buying see that you get the true variety, as it has many aliases. **Price, strong plants, $8 per 100.**

Owing to the heavy demand, our stock of this most desirable Fern, ready for immediate shipment, is getting low. In order to accommodate those who wish to make plantings later in the season, we will book orders now for delivery any time till July 1st. This will give florists who are now busy with their spring work an opportunity to secure their stock and have it delivered at a time when they can take care of it.

JOHN IRVINE CO.,
BAY CITY, MICH.

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SEND IN YOUR ORDERS FOR

Dutch and French Bulbs, Lilium Harrisii, Tuberoses, Lily of the Valley, best Hamburg grown pips. Only first-class goods handled.

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60 Barclay Street, NEW YORK CITY.



Kills Mildew and Fungus growth. What does?

GRAPE DUST.

Sold by Seedsmen.

MICHIGAN Wild Flowers

Orchids, Ferns, Shrubs and Trees, Bog Plants and Aquatics, for parks, flower gardens, rockeries, bogs, ornamental waters and carp ponds. The World's Columbian Exposition buys them. Retail, Wholesale and Carp Pond Catalogues, each free.

WILFRED A. BROTHERTON,
ROCHESTER, MICH.

Shipping Funeral Designs.

We noticed the communication in the issue of the 7th from L. F. D. in regard to shipping funeral designs, and we take the liberty of giving your readers our method of shipping. While we too sometimes use the style of shipping case L. F. D. mentions, yet as a rule we use a more substantial case. We have in use at the present time eighteen cases of different sizes, from the size required for a single piece to those holding several small or one very large one. They are made of light material, sides, lid and bottom of ⅜ and ends of 1 inch stuff, dovetailed and glued together. They are lined on the inside with heavy paper and light oil cloth, making them dust and frost proof. The larger cases are arranged with movable slat sections, so that the forms are fastened to the section with strong wire and then placed in the case at any height or angle desired and fastened with a simple thumb screw.

We have a large trade among undertakers in the surrounding towns for a distance of 100 miles or more and we find these cases most convenient, always ready, and almost as light as those made from lath and paper. We also save valuable time by having just what we want on hand at a moment's notice. The cases are returned to us at a cost of 10 cents by the express companies as "empties." We think our fellow florists who do an out-of-town business will find these cases a good thing to have. We still have some in use that have done service for seven or eight years and are still in a good state of preservation, though having travelled thousands of miles.

We are very particular to keep the cases neatly painted, a light drab trimmed with black, and with a neat and attractive shipping tag they are by no means a mean "ad." as they often lay around the depot and express office for a day or two on their return trip. We also fasten iron drop handles on each end of the cases for convenience in handling.

F. W. BEACH.

CHINESE PEONIES

are grown in **500** distinct varieties in **Krelage's** Nurseries at Haarlem, Holland. Please write for special descriptive catalogue (No. 512), containing exact descriptions of over 500 varieties, cultural directions, etc., to

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SPECIAL TERMS TO THE TRADE.

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GHENT, BELGIUM,
Palms, Azalea Indica,
TUBEROUS BEGONIAS.
TRADE LIST ON APPLICATION.

TRY **DREER'S GARDEN SEEDS**

Plants, Bulbs, and Requisites. They are the best at the lowest prices. TRADE LIST issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia

DECORATIVE PLANTS.

	Per doz.	Per 100
Grevillea robusta, 3½-inch pots, 15 inches high	$3.00	
" " 3-inch pots	2.00	$15.00
" " 2½-inch pots	1.25	10.00
Pandanus utilis, 5-inch pots, fine plants	6.00	
" " 4-inch pots, fine plants	4.00	
" " 3-inch pots	2.00	
" " 2½-inch pots	1.50	

	Per doz.	Per 100
Dracæna indivisa, 3-inch pots	$1.25	$8.00
Palms—Latania borbonica, 4-inch pots	3.00	
" Washingtonia filifera, 4-in. pots	3.00	
Ferns—Blechnum brazilliensis, 3½-inch	1.00	8.00
" Pteris serrulata, 3½-inch	1.00	8.00
Asparagus tenuissimus, 3½-inch	1.50	10.00
Smilax 2½-inch, strong plants		3.00

FORCING ROSES.

	Per 100 2-in. pots.	Per 100 3 & 3½-in. pots.
ALBANY	$5.00	$10.00
LA FRANCE	4.00	10.00
PERLE	4.00	8.00
BRIDE	3.00	6.00
MERMET	3.00	6.00
NIPHETOS	$3.00	$6.00
BON SILENE	3.00	6.00
SAFRANO	3.00	6.00
ADAM	3.00	6.00
BRABANT	3.00	6.00

Samples mailed at prices quoted.

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Isaac C. Rogers. MOORESTOWN, NEW JERSEY.

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Send for estimates on what you need. You will be pleased with our prices.

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$1000

From 1 plant in 1 year. Millions in it yet.

IN WHAT?

The New Giant Forcing Daisy

SNOW CREST.

Introduced by Mr. H. A. Dreer.

There will be millions of plants wanted. If you want to **win** in this game, **strike now.** We are in position to help you, as we are headquarters, and have the largest stock and finest plants in the world. $1.50 per dozen; $10 per 100; $80 per 1000. It is vastly superior to Snowflake in every way, and combines so many points of excellence that its success is assured. For further particulars give it a trial.

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Yours very truly,

J. C. GIBSON, Woodbury, N. J.

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FINE LOT OF

ASPARAGUS TENUISSIMUS

good, 3 to 4-in. stuff, $6 to $8 per 100.

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CHEAP FOR WANT OF ROOM.

2,500 Chrysanthemums under label, in 4-in. pots, ready to plant on bench.

Also 2,000 first-class stock of field grown Carnations, ready in October. Varieties and prices on application.

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GREVILLEA ROBUSTA, 2½-inch pots, good	$8.00
ADIANTUM CUNEATUM, 3½-in., good	8.00
CLERODENDRON BALFOURII, 2½-inch good	5.00

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Sizes, from 6 inches to 12 inches. Also larger stems, from 2 to 3 feet. Prices on application.

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REMEMBER you will save at **least 15%** by ordering from us.

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From 4 inches to 6 feet. Prices on application. Delivery from Jan. to March.

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		Per 100	Per 1000
Lilium Auratum,	6 to 7 in. circ.	$2.50	$20.00
" "	7 to 9 "	3.50	25.00
" "	9 to 11 "	5.00	40.00
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" spec. album	6 to 8 "	6.50	55.00
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Extra fine Monsters		7.00	60.00
Lilium longi.	5 to 9 "	2.50	20.00
" "	7 to 8 "	3.50	25.00
" "	8 to 10 "	4.50	40.00
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" Krameri, two sizes, $4 to $5.50		$35—50	
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" Batemanni		4.50	40.00
Nerine Japonica, fine bulbs, true		1.75	12.50

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The above we can supply in large quantity, *and include all fine, sound, selected bulbs*, which we assort before shipping east; f. o. b. San Francisco. For general Japanese stock, etc., apply to

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KENTIA BELMOREANA and KENTIA FORSTERIANA, in 3-inch pots, **VERY FINE PLANTS,** $50.00 per 100.

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AS GOOD AS THE BEST, AND JUST A TRIFLE BETTER.

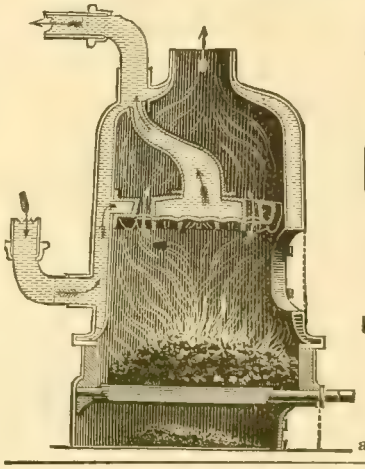
That is what my customers say, and they are in all parts of the United States and Canada—Maine to California, and Montreal to the Gulf of Mexico.

If care and attention will do it, they will be just a trifle better every season; quality is the first consideration, price the second, as an inferior strain of Pansies is dear at any price.

With superior facilities for handling trade and prompt attention to all communications I will make it a pleasure for you to deal with me and would respectfully solicit a trial order.

Good stocky plants from seed beds ready August 20th and after, at 75 cents per 100; $5.00 per 1000.

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—AND—

Ventilating Apparatus.

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PIPE FITTINGS,
VALVES, TANKS, ETC.

☞ **Estimates of cost given, and Illustrated Catalogue furnished on application.**

PANSY SEED.

The Jennings strain of large-flowering and fancy Pansies. You want this strain of Pansies if you want the best. Stock all carefully grown by myself, and first-class in every respect. To all my old patrons, will say, they will find a decided improvement from last year.

Finest mixed, all colors, pkt. 25c., 50c. and $1 each. Ounce, $6 00; 3 or more ounces, $5 00 per ounce.

Large yellow, black eye and pure white, in separate pkts. 50c. and $1.00 each, free by mail.

Pansy plants ready Sept. 1, 60c. per 100; $5 per 1000

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EXTRA PANSY SEED.

Mammoth Sunbeam Strain.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; receive high praise from my customers. Every florist should be sure to sow it. Trade pkt. 500 seeds, 25 cts.; 3 pkts 60 cts.; 6 pkts. $1.00.

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My Specialty is

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GREENHOUSE MATERIAL,

from the bottom of Gutter up.

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All Styles of

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Itemized estimates cheerfully furnished. Cost of freight given and guaranteed. Correspondence solicited.

Lyman Felheim, ERIE, PA.

When ordering mention American Florist.

Don't be Bashful.

The following is from a fair but unknown correspondent in Virginia, and is one of the most pointed of its kind that I have seen for many a day. Perhaps some of my brethren who are more fortunate than I am may like to fill the order.

WM. FALCONER.

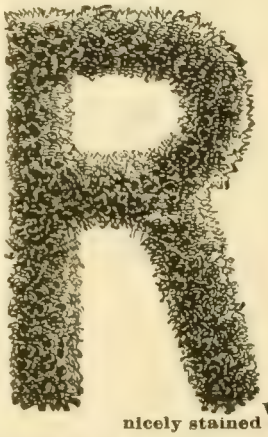
VIRGINIA, June 30, 1892.

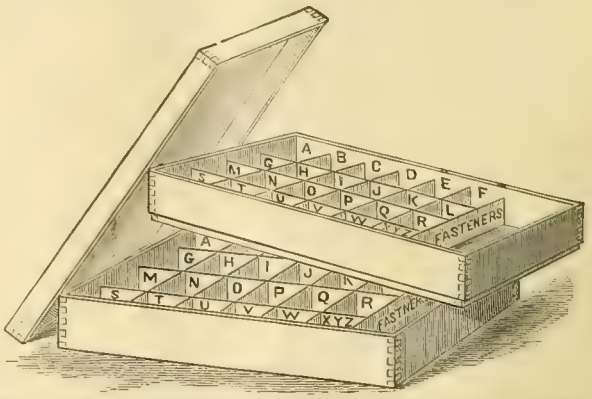
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Solanum Grandiflora, Rainbow Senilis Cactus, Butterfly Orchid and red, white, pink, yellow and purple Hyacinths.

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With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

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Manufacture THE BEST LETTERS IN THE MARKET.

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T. W. Wood & Sons, 6th and Marshall Sts. Richmond, Va.
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NATURAL GAS MADE GLASS

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HOT BED AND VENTILATING SASH

SASH BARS

VENTILATORS, RIDGES, GUTTERING AND LUMBER.

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CLEAR CYPRESS.

Bars all Shapes up to 20 feet long.

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FOR HEATING BY HOT WATER CIRCULATION.

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MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN DO IT NOW.

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WITHOUT A RIVAL EITHER IN COST, SPEED IN OPERATING OR SECURITY IN CASE OF STORMS.



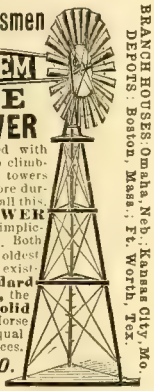
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1st. Give the number of sashes to be lifted.
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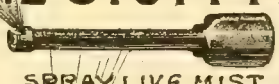
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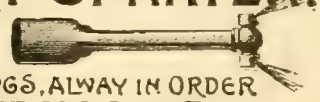
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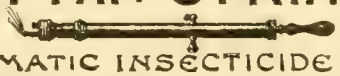


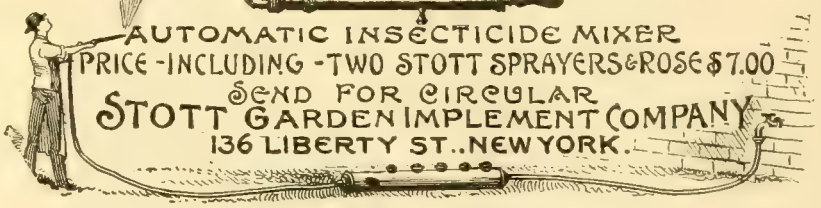
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AUTOMATIC INSECTICIDE MIXER

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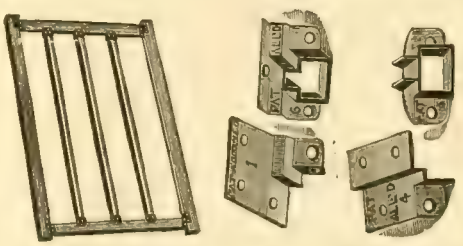
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CYPRESS GREENHOUSE WOOD WORK OF ALL KINDS.

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Sizes, 1/8-inch to 42 inches diameter.

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UPLAND GREENHOUSES. MADI N. J.

How I Stopped a Leaking Pipe.

My main pipes from boiler are 4-inch. On the end of the mains under side benches there is a branch or T hubbed to receive three 2-inch return pipes. In putting in the pipes I broke one of the hubs off. I clamped it in place with a stirrup and red lead and it was all right until midwinter. The return pipes had settled a little and in lining them up I disturbed the broken joint. I tried wrapping it with hemp and lead but the hot water would break through. It ran a stream the size of a straw. Having on hand some water lime and sand I laid a couple of brick under the pipe and covered the brick with cement. I then took a piece of pine $\frac{3}{4}$ inch thick and 6 inches long, bored a $\frac{3}{8}$-inch hole through and cut the top down to the hole for about 1 inch in length; this acted like a sugar spigot. I slipped it under the pipe so the stream of water would run in at the part cut out, the water now being conveyed out a few inches. I then built cement around the spigot and all over the pipe. The next morning the cement was set. I then made a small plug and stuck it in the end of the spout and that ended the leak.

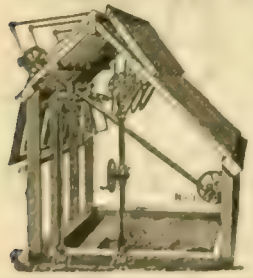
Coshocton, O. M. J. SCHOTT.

Local Societies.

Mr. H. E. Jephson, secretary of the Eaton, O., Floral Society, and who is also a florist, writes telling us of the success of the society, which now has 120 members, and of the value it has been in stimulating a love of floriculture among the people, and thus proving indirectly a great benefit to those in the trade. He advises florists in other places to take the initial step in the organization of such a society in their own town and is assured that with but little well directed work there could soon be a thousand such societies in the country, and that the aggregate good to floriculture would be difficult to compute. He mentions the giving away of 75 plants of chrysanthemums to those who would grow them for exhibition, as a feature that has developed a great deal of interest in the coming exhibition of his society.

IF YOU have not already ordered a copy of our new directory and reference book you are missing a good thing that you ought to have. Remember that it contains not only a list of those in the trade but a vast amount of reference matter of great value to every reader of the FLORIST. The reference lists of roses, chrysanthemums and carnations are alone worth the price of the book.

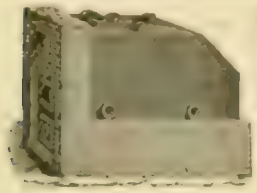
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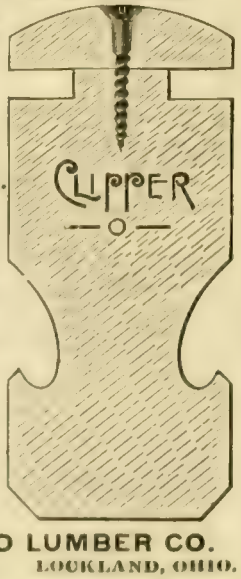
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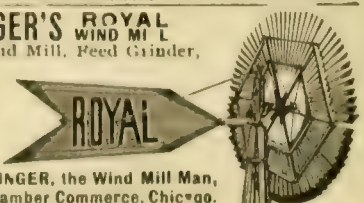
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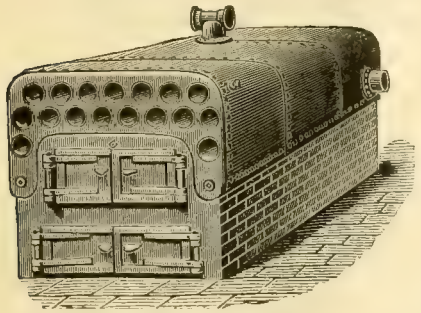
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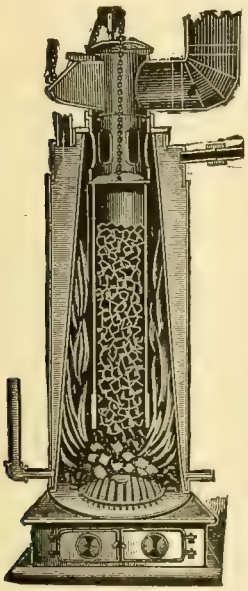
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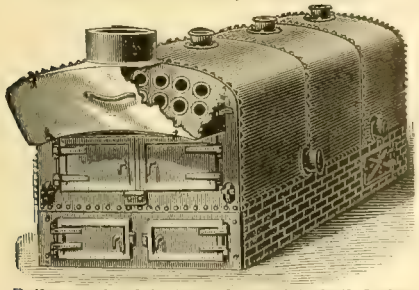
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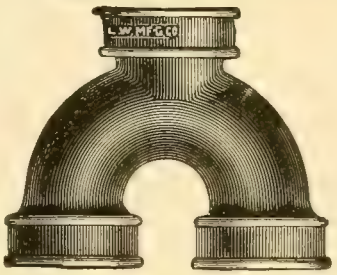
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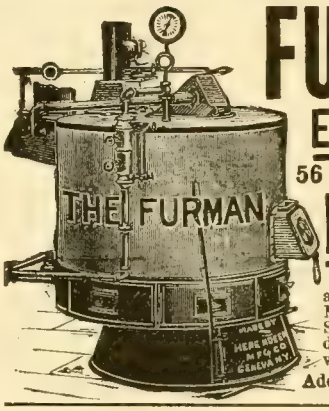
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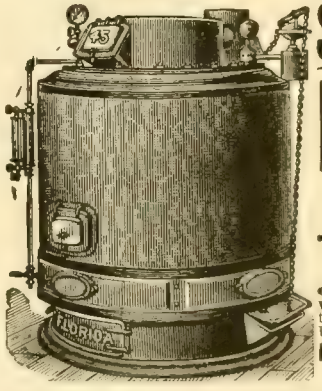


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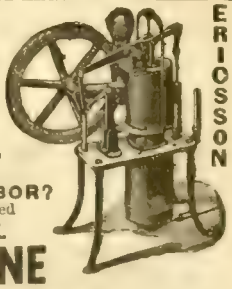
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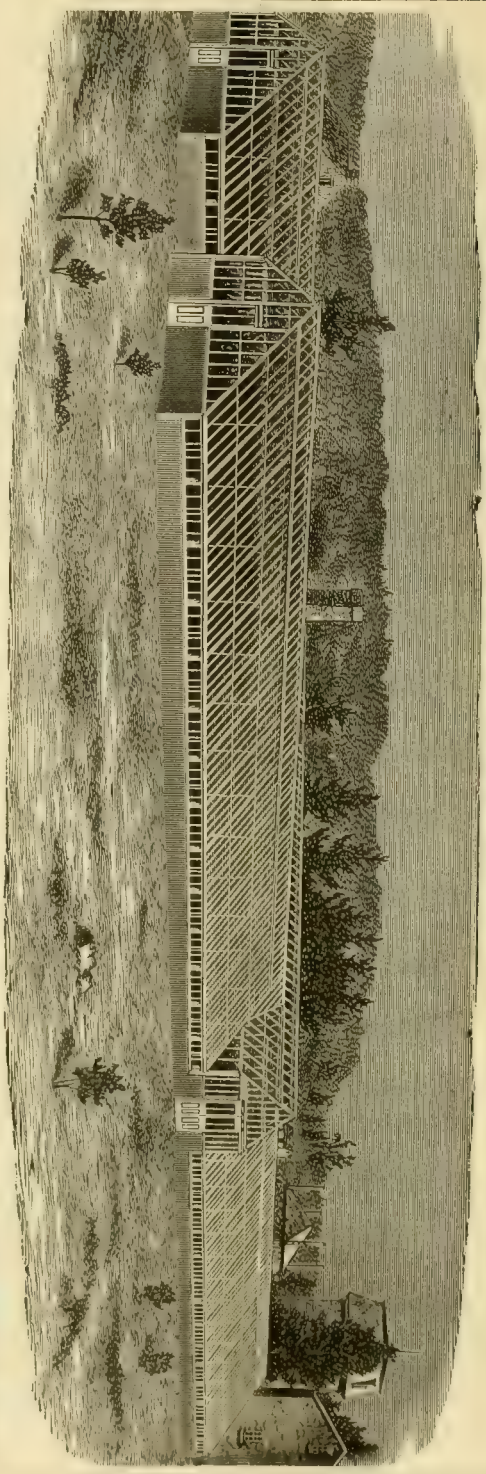
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THE AMERICAN FLORIST



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Vol. VII. **CHICAGO AND NEW YORK, AUGUST 4, 1892.** **No. 218**

THE AMERICAN FLORIST

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James Dean, Bay Ridge, N. Y., president; W. R. Smith, Washington, D. C., vice-president; Wm. J. Stewart, 67 Bromfield St., Boston, Mass., secretary; M. A. Hunt, Terre Haute, Ind., treasurer.

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LAST CALL for advs. in the convention supplement.

OUR convention supplement will be the greatest photograph album you ever saw.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our new trade directory and reference book.

Trade Plants for Autumn Use.

After the bedding season is over the retailer with a general trade must decide on his autumn stock, preference being given to attractive plants for amateur buyers. The usual demand will be for flowering plants, especially when the purchase is limited; people have to be educated up to foliage plants, and in many localities their sale is limited.

Foremost among retail plants for the autumn trade are the begonias; they give a good appearance at all times. There is no need to go in for an extensive list of varieties; we notice that among those to be commended for good blooming and free growth, B. rubra, B. coccinea, and B. nitida always sell readily. They are all three admirable for pot culture and easily propagated. Planted out in a bed or bench they grow very rapidly, and provide flowers for cutting all the year round. Among foliage begonias the old rex is too well known to need more than a passing mention, but it is always in demand. We find that the beautiful colored Louise Chretien proves highly attractive to purchasers, possessing the merits of rex with the addition of novelty in color. It must be remembered that Chretien does not propagate from the leaf, like rex; it requires an entire cutting. We find that a large rex or Chretien placed in a fancy pot takes very well, and naturally it can be sold for less than most other decorative foliage plants.

Well grown carnations in pots seem to increase in favor; tall stalky plants are a mistake for this use. They should be pinched into shape, and kept free from spiders, as the attractiveness of the plant depends largely on good foliage.

Buyers of the amateur class always look for what they call "thrifty" plants, and it pays to keep them clean. Good pot carnations are not always on hand, most people planting them all out, but most retailers will find sale for them, if good plants of standard varieties.

Autumn usually brings a fair trade in palms and other foliage plants. Ficus elastica is a general favorite, and so is Pandanus utilis. The variegated ficus is much admired, but it seems rather more tender than the other. In propagating ficus, pandanus, crotons, etc., the most successful growers use cocoa fibre for the propagating frame. This material is less used here than in Europe, but experience proves its value, and its use is increasing in this country. Pandanus depend largely on color for their value; if rusty or burned they are rejected by wholesale and retail trade alike.

I have seen P. Veitchii doing very well as a house plant, and of course it is much handsomer than utilis, but people often seem to think it must be more tender. In point of fact there is little difference between the two; many who use the plants in decorating assert that Veitchii stands knocking around the best of the two, as utilis easily becomes rusty with neglect. Very large plants are a mistake in the retail trade; a medium size is preferred.

Among retailer's palms, though Latania borbonica is a good standard sort it is not so attractive in small specimens as some of the others. A big latania is always a fine sight, but small ones look stiff when compared with kentias or seaforthias. Kentia Belmoreana, Areca lutescens and Seaforthia elegans are three standards always in vogue. It is easy enough to raise them from seed, but so many of the specialists offer palm seedlings at extremely low prices, to say nothing of those that come into the auctions, that the small grower often finds it quite as satisfactory to buy the seedlings as the seeds.

An extremely good plant for autumn as well as summer sales is the grevillea, which is known popularly as the Silk Oak. It is very desirable for a small conservatory, making fine specimen plants.

Aspidistra lurida and A. lurida variegata will come in at this season, particularly where needed for boxes either in a hall or shaded window during the winter. One of the great attractions of this plant is that the amateur can not kill it; it flourishes under the most discouraging circumstances. It is very nearly hardy, and is not affected by shade or draughts, so is a good thing for use where other plants would not survive. They are increased by suckers.

EMILY LOUISE TAPLIN.

Useful Plants.

Rohdea Japonica var.—This may be considered among the useful plants for filling vases or window boxes, or for any other position where a low growing variegated plant is desirable; its habit being somewhat similar to that of Reineckia carnea var.

Rohdea is, however, a much hardier plant than the above, and has narrow leaves edged and sometimes striped with white, the foliage being of very stout texture and produced in a compact tuft.

No special care in cultivation is required and a temperature of 45° to 50° is sufficient during the winter, propagation being effected by means of division.

Acorus Japonicus var.—This very pretty dwarf Sweet Flag has been noted before in the columns of the FLORIST, but well deserves another reference from the fact that it is one of the best variegated plants for putting into fern pans to give variety in foliage, and also possesses the good quality of lasting well under such conditions.

Acorus Japonicus var. seldom grows more than six inches high and forms a little tuft of erect foliage, the latter being dark green and striped with white. It is propagated by division and enjoys rich

loam as a soil and an abundance of water.

Lasiandra macrantha is one of the plants that might be more widely spread than it is at present, one of the uses to which it may be put being as a bedding plant, its showy flowers being of an uncommon tint among the plants generally used for bedding.

The plant in question is a strong growing subject with rather woolly leaves and produces its saucer shaped flowers in great profusion all through the summer, these being three or four inches in diameter and deep purple in color.

Lasiandra macrantha flowers in quite a small state, and in order to get nice, bushy plants they should be pinched occasionally. Cuttings root easily when placed in a warm house, and the matter of soil does not enter specially into its cultivation, though an abundance of water is necessary.

Dichorisandra undata is a small growing stove plant introduced many years ago, but still remains rather uncommon. The leaves of this species are from three to four inches long, of oval shape and dark green with veins of lighter shade, the under side being dull purple, and the surface of the leaves is undulated in a very peculiar manner.

This is an easy plant to manage and thrives in a moderately shaded house in which a temperature of 60° is maintained, and cuttings root very readily at any season, so there is no difficulty in securing a stock of nice young plants that will be found very useful for fern dishes and window boxes, or possibly for table designs.

Begonia glaucophylla scandens is another old plant that would stand a little more pushing, especially for retail trade, there being probably no other begonia so well adapted for growing in baskets.

Under this system of cultivation it makes pendent shoots that sometimes reach a length of three or four feet, these producing an abundance of coral red flowers from the axils of the leaves, and having a remarkably good effect.

B. glaucophylla scandens will grow very rapidly in a warm house, and like the rest of the genus, is easily multiplied by means of cuttings. W. H. TAPLIN.

The Nomenclature Committee.

Do not forget that this most important committee will meet at Washington on Monday p. m., August 15, the evening preceding the opening of the national convention.

The work of this committee is of the utmost importance to every one engaged in any branch of our business. It stands for protection from swindling and deception, it endeavors to secure to the raiser or introducer the legitimate recompense of his efforts, it aims to so direct and aid that mistakes made through ignorance may be avoided, and that our business may be conducted on the highest plane of intelligence and honesty and our good reputation in the commercial world be enhanced.

But the committee can do little of itself without the support and assistance of the trade at large and the members of the society in particular. If you know of any case of doubtful naming, any misrepresentation, any practice whereby a purchaser is likely to be deceived or misled in any way regarding goods purchased, it is the province of this committee to investigate and to do all in its power to remedy, and it is your duty to bring such matters to the attention of the committee. A great deal of good has already been accomplished and with hearty cooperation much more remains to be done. Send all communications to the secretary, Wm. J. Stewart, 67 Bromfield street, Boston, Mass.

Washington Hotels.

Below are given the names and locations of the hotels with which rates have been made by the local committee for convention week, together with the rate per day secured:

Made's, cor. 3d street and Penna. avenue, N. W., American, $2.

Belvedere, N. W. cor. 3rd street and Penna. avenue, American, $2; European $1 and upward.

Reuter's, 4½ street and Penna. avenue, American, $2; European, $1.

Meyer's, 470 Penna. avenue, N. W., American, $2; European, 75 cents.

Metropolitan, Penna. avenue, bet. 6th and 7th Sts., special rate, American, $3.

Ebbitt, cor. 14th and F streets, special rate, $3, no charge for parlors.

St. James, cor. 6th street and Penna. avenue, N. W., European, $1 to $3.

Howard House, cor. 6th street and Penna. avenue, special rate, $2.

Randall, S. E. cor. 15th street and Penna. avenue, American, $2.50.

Riggs, cor. 15th and G streets, N. W., American, $3.

Arlington, Vermont avenue and H St., N. W., special, $4.

Welcker's, 15th street near Penna. avenue, N. W., American, $3; European, $1.

Hotel Johnson, cor. 13th and E streets, N. W., European, $1 to $2.50 each.

Willard's, cor. 14th street and Penna. avenue, American, $3 and upward.

American House, cor. 7th street and Penna. avenue, American, $2.

Cochran, cor. 14th and K streets, N. W., American, $3.

Normandie, cor. 15th and I streets, N. W. Special, $3.50.

Oxford, cor. 14th street and New York avenue. Special, $2 50.

Hillman House, North Capitol street, bet. B and C streets, N. E., $2 and upward.

National, cor. 6th street and Penna. avenue, American, $2.50; European, $1.

Hotel Arno, 16th street between H and I streets, N. W., American, $3.

Chairmen of Committees of the National Gardeners' Club of Washington for S. A. F. Convention.

Reception—W. R. Smith, U. S. Botanic Garden.

Executive—Benj. Durfee, 905 F street.

Exhibition—C. F. Hale, 719 14th St.

Hotel—J. R. Freeman, 612 13th St.

Entertainment—W. S. Clark, Bladensburg Road.

Badge—W. H. King, Wenthorpe Heights D. C.

Bowling—J. R. Freeman, 612 13th St.

Decoration—J. H. Ley, Anacostia, D. C.

Advertising—C. F. Hale, 719 14th St.

Bureau of Information—C. Leslie Reynolds, 1718½ 10th St., N. W.

Lycopodium Phlegmaria.

Visiting the greenhouses of Mr. W. C. Wilson, Astoria, several years ago, I was particularly struck with a tiny piece of the above growing *top downwards*, and he, noticing my admiration, offered the plant for my acceptance. Thanking him, I have since then grown it in an ordinary orchid basket suspended in a shady place in a tropical house, giving plenty of water at all times and once in a while renovating the basket with live sphagnum, peat and charcoal. F. L. HARRIS.

Leaves of Advice From a Limb of the Law.

(*For young florists*)

XXXII.

ABOUT CHECKS.

Had some difficulty with a check have you? State the case. I may be able to use it as a text for a little sermon on this subject of checks, a very important one for the young business man.

You say a stranger called at your place of business, bought a very handsome basket of flowers and in payment handed you part cash and a check for $10 drawn by Willow & Ware of this city to the order of J. Fairfellow, whom you supposed to be the gentleman buying the flowers. You indorsed the check and sent it in settlement of an account to Peter Clay, of Potteryville, maker of flower pots. He indorsed it and passed it through his bank. In due time it came back to the bank of this place which paid it and charged it up to the account of Willow & Ware.

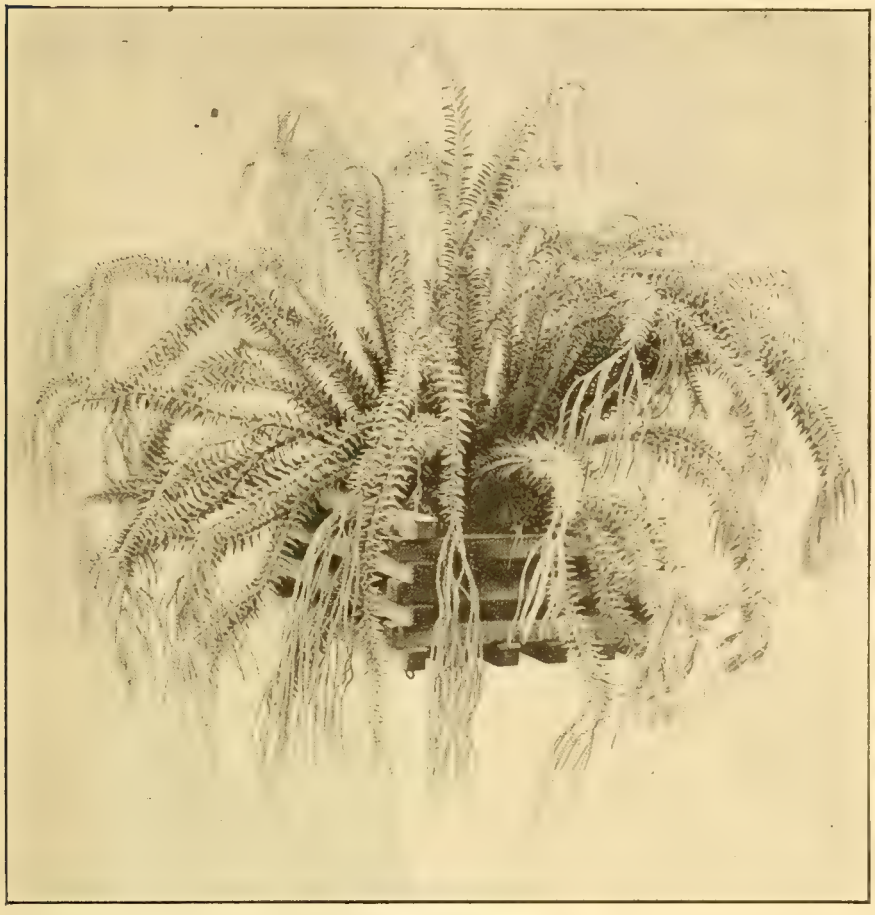
They never drew the check. It was a forgery. The bank must lose the money unless it can show that you or somebody through whose hands the check passed had knowledge of its fraudulent character. You all gave value for it. It is a general rule and one which is based upon correct principles of law and equity that a bank should know the signatures of those confiding their property to its safe keeping, and if it be so careless as to pay out money on a forged signature it must suffer the consequences.

I need not call your attention to the fact that if the bank had detected the forged character of the check then you would have been the loser, for each subsequent endorser would in turn have come back upon his preceding endorser until you were reached.

Now you say why may not the bank in this city come back on the bank in Potteryville? Simply because that bank was only put upon reasonable inquiry. It could not be expected to know Willow & Ware's signature. It only cashed the check on the strength of old Peter Clay's endorsement and he is good for all the checks of that amount which you could draw in a day's time.

If you think a check has been destroyed and draw one bearing the same number and your bank cashes first one and then the other you would not be entitled to recover the amount of the lost check, for you should have given notice of the fact to your bank. Bank officers are, it is true, supposed to be experts and to look upon a check with a trained eye, and they are not permitted by the law to take any great chances save at their own peril. Yet they are not omniscient. But you as a trader are not required to identify a customer. If he appears to be a respectable man and there is nothing suspicious about the check which he presents you should take the chances, exercising always reasonable caution.

But now comes another phase to this question. Suppose you had endorsed this check and deposited it in our bank which charged it up to the account of Willow & Ware. Upon their repudiation of the check the bank would simply turn around and deduct $10 from your account, because you see the bank would have a right to regard it as a *new* contract; in other words to allege that it trusted *your* endorsement. But in the case which actually happened the check came to the bank from strangers and there were no privities between you and them.



LYCOPODIUM PHLEGMARIA.

Yes, as you suggest, your endorsement was on the check, but as between you and the bank it was only presumptive and not conclusive evidence. You must understand that when you endorse a check you in reality draw a new check; you put a new instrument into circulation and if I take it I give you the credit and not the maker who may be entirely unknown to me, hence *as between us* you would have no defense to your endorsement. A young business man can't be too careful how he accepts a check from a stranger. Yes, I know that flowers are perishable things and must be sold, but at the same time the florist should also bear in mind that when a young man's fancy turns to thoughts of love he begins to cast about how he may procure some flowers for his sweetheart, and I'm sorry to say he is not always over scrupulous in his methods of procuring them. You may remember how nearly you came to being fleeced by a sharper with a certified check.

Now it is no more trouble to forge a certification than it is to forge the check itself. It takes a little more time to have a stamp cut, etc., but some dealers are fascinated by the sight of a certified check. It is as good as gold to them. But the trouble is not that the certification is not correct, for it often is, but that the check was "raised" before it was certified.

I recollect you had an idea that the bank would be liable for the face of the "raised" check.

By no means. If you give the subject a moment's thought you would see that if that were the law no bank would dare certify a check without first sending to the makers to ascertain if they had drawn a check for that amount. True, the bank must not be careless, it must exercise the greatest caution at all times.

How then are such dangers to be obviated? By the maker of the check using all known precautions to prevent his checks from being raised. He should use safety paper; he should so crush the paper where the amount is written as to make it next to impossible to alter the figures; he should with a punch cut the figures out of the paper entirely, or he should make use of an ink specially prepared to resist the action of acids.

Yes, you're right, a small business would hardly justify these precautions, and yet, it is exactly the small business which is least able to bear a loss of any kind.

A check should never be allowed to grow old. It ought to be presented at once. A good business man always deposits his checks the same day he receives them if possible. At any rate he ought not to lay them away in his drawer without endorsing them and writing the words: "For deposit only to the account of." This prevents any dishonest clerk from appropriating the proceeds of one of them. Nor will a careful business man ever pass a check away by endorsing it in blank. Special endorsements are the only safe ones.

If the maker of a check spells your name incorrectly, endorse first following his spelling, then endorse correctly thereunder.

It sometimes happens that you desire to have the payee's signature on the back of the check, and no other; in that case make it payable to him without the words "to the order of."

Some business men have a way of making a check payable to a man's order, allowing him to endorse it and then certifying as to the correctness of the endorsement by writing the words "endorsement guaranteed" or "endorsement correct" and signing their name. A bank will pay such a check to anyone presenting it—in the absence of course of anything to arouse suspicion. But such a course is only advisable when dealing with responsible and trustworthy parties.

You ask me what would happen if two or more holders should present checks at the same moment and the drawer's account was not large enough to pay both or all? Well, that is a moot point. I have known of cases where an account was not large enough by a few dollars, say, of the holder going to the receiving teller's window and depositing the necessary amount to the credit of the short account and then returning to the paying teller's window and cashing his check.

A bank may for even slight cause refuse to pay a check, even when quite regular, for in most states it is not an absolute transfer of so much money. A bank you must recollect is not a principal but a trustee, acting in a fiduciary capacity, a thing already explained to you. Hence a telegram from the maker would justify the bank withholding payment.

Mr. Micawber to the contrary notwithstanding, a check or note of hand is not payment until paid, and while you may by failure to present it in time lose the amount by the bankruptcy of the maker, yet you will be allowed to prove your debt just the same.

Keep your check book under lock and key, number your checks and don't by leaving blank spaces encourage sharpers to raise the amount.

UNCLE BLACKSTONE.

Boston.

Cut flower trade livening up a little. Funeral work is plenty, for the same spell of dry, scorching weather that has burned up the lawns till they are as brown as in February and has dried up the leaves on the trees, has also had its effect on suffering humanity and the florist has profited by others' misfortunes.

White flowers sell well. White sweet peas bring three times as much as the once proud Blanche Ferry. Carnations are scarce and white ones go at sight or before. Asters are beginning to come in plentifully. In roses the best price is paid for La France. The finest red obtainable now is the Wootton. Some fine specimens of this rose are coming from Newport. There was a time when Boston could not supply enough roses for Newport in the summer. Now Newport has to dispose of her surplus in Boston. There are very few good white roses to be seen. Where they are of salable quality they sell well.

The annual outing of the Gardeners' and Florists' Club took place on Thursday, July 28, at Lake Walden, Concord. This is the first variation from the long established custom of a harbor trip on these occasions and it was predicted that the attendance would be very small on that account. Happily these predictions did not prove true, the number attending being as large as it was last year. The make-up of the party was somewhat changed, however, the younger element largely predominating and many of the old standbys being missed. There was quite a number of ladies present.

Everything passed off pleasantly and all enjoyed themselves thoroughly. The boat race was won by T. F. McCarthy, the wire design manufacturer. A handsome ring was the trophy. In bowling Sam Coleman won first prize, a ring, and Tom Cox second, a pin. There was a lively game of base ball between a picked nine and a team representing the employes of the Public Garden, which was won by the latter. Little Elijah Wood did some great pitching and between spells spent his time circling round big D. J. Pendergast, who was umpire, in the customary and legitimate attitude of defiance, all of which had a wholesome effect on said umpire. A feature of the game was the graceful base running of W. H. Long, all of whose performances elicited great applause and proved him the star of the aggregation. There was dancing and dancing, the whirling waltzes and rollicking quadrilles being interspersed with old fashioned Celtic break downs, several of the participants in the latter showing a high degree of activity and proficiency, and there must have been employment for three or four shoemakers on the following day to repair the damage to their foot gear.

Superintendent Doogue, of the Department of Public Grounds, is entitled to especial commendation for his generosity to his employes in giving all who wished to attend the picnic leave of absence for the day without loss of pay. It goes without saying that he will lose nothing by it. The work will be done all the better, for the boys are not as a rule ungrateful and a liberal policy like this does much to insure good feeling between the superintendent and the men.

Nothing occurred to mar the pleasure of the occasion and everybody seemed well satisfied with their outing, all of which should be very gratifying to the committee which had been given charge of the arrangements.

The funeral of Mr. Bernard Norton, father of ex-President Norton, took place in Dorchester on July 17. Many of the business friends and associates of the Norton Bros. testified to their respect for the family by attending the services. The absence of the retail florists was noticeable. It was hardly creditable to them that at a time of the year when business can not be said to interfere they should fail to show this slight mark of fellow feeling towards their business associates of so many years, and it leads one to inquire whether there is not something in the retail business that is conducive to the development of selfishness. In contrast to the action of the retail people was the large number of gardeners present, one of them, Mr. Fred Harris, having come 17 miles to attend the funeral. Messrs. Bowditch & Long sent a handsome funeral design.

New York.

The old story, only worse. Trade in cut flowers is a reminiscence and a hope, that's all. Many of the dealers who can not bear to be idle are trying to make themselves and their friends believe they are busy by having their shops repainted and renovated generally while they themselves indulge in self-renovating with a game of checkers and a pitcher of pure ice water.

Sweet peas are coming in by the crate, but a man is wasting his time when he goes to pick sweet peas when they are wet. Two hours after they reach the city they are ready for the dump, and that is the fate of a large proportion of those sent in. Roses are bad. The hot weather has taken the life out of them. If good La France and Beauties could be obtained they might be sold, but good ones can not be found. Gladioluses are coming in freely, but will scarcely pay the freight. Still, when the grower is willing to prepay the freight, as is said to be the case, the receiver can not find much fault.

Charles Thorley has gone to Moosehead Lake for two weeks' fishing. After that he contemplates a trip to Russia.

Brower makes an attractive show of the wild Pitcher Plant—Sarracenia purpurea—which is much noticed for the oddity of its habit. Few people know what an excellent plant this is in a cool room, planted in sphagnum and kept standing in water. The plants vary greatly in coloring, some being plain green, while others are veined and shaded with deep bronzy red. Some of the florists make a large display of flowers for the season, but find their chief work now in funeral orders. Wreaths or flat bouquets lead for such work.

Thorley reports that he has a good many out of town orders now; his city work, like the rest, is chiefly for funeral orders.

There is an extensive display of bedding at Eldorado, the pleasure park at Weehawken. Among other work is the name "Eldorado" in mammoth script, worked in red and yellow alternantheras.

Samuel Henshaw has been making use of aquatic work largely in landscape gardening this summer. He is also engaged in literary work of a horticultural and reminiscent character.

Philadelphia.

The heat the past week has been almost unbearable; the thermometer has registered over 98°, and two or three days it reached from 102° to 106° in the shade. In greenhouses thermometers have been useless to register. At Heron & Nesbit's establishment in Hestonville the mercury has registered 135° (the limit) several times. They talk of getting a larger glass.

This intense heat makes everybody uncomfortable in the extreme, but we have not heard of any prostrations of members of the trade, although the papers are full of accounts of sunstroke and persons overcome by the heat.

Harry Bayersdorfer has returned home from his European trip and reports great success in securing novelties in the line of florists' supplies.

The Philadelphia Immortelle Design Co. has consolidated with Marschuetz & Company. The firm name will be Marschuetz & Company and the business will be conducted from the old stand, 23 and 25 North Fourth street. Mr. Joseph Marschuetz has just returned from a trip to Europe, where he has been purchasing new stock, and says he has secured quite a number of novelties. We wish the new firm success.

Mrs. LaRoche, mother of Mr. LaRoche, of LaRoche & Stahl, died July 23 at the home of her son, Collingdale, Delaware County.

One of the pleasant features of the trip to Washington will be a social time with the New York and Boston delegation, who will be met on their arrival at Broad Street Station and escorted to Horticultural Hall by members of the Florists' Club, where they will partake of an informal luncheon. They will arrive about 1 p.m., and their journey, with the addition of the Philadelphia brethren, will be continued at about 2:30.

This will undoubtedly be the best attended convention ever held by the society, if we are to judge by the number going from this neighborhood. It really seems as if there will hardly be enough left at home to do the watering.

Robert Craig returned from the fishing party at Barnegat Bay and reports the fishing very poor, although the boys are having a good time otherwise.

James Simms, landscape gardener, of Rosemont, invited a number of his friends in the trade to spend the day with him July 27. A good time was the result, and the party returned home about 8 p. m. very much pleased with their day's outing.

The bowling fraternity are very much exercised over the Washington contest. The first four places on the team seem to be filled very satisfactorily, but for the other two there are a number of claimants. We are confident, however, that everything will come out all right, and may the boys bring the cup back with them.

The "H. A. Dreer" B. B. Club defeated the "Brooks Underground" nine on their grounds at Riverton in a well played contest Saturday, July 23. The pitching of Wood was too much for the visitors, and they were unable to secure a single base hit. The score was 14 to 5. The Dreers will have another go with the Florists of this city Saturday, August 6. The game will be played on the Craig grounds, Forty-ninth and Market streets.

Mr. Thos. Foulds, of Gwynned, met with a great misfortune in the loss of his little daughter, 3 years old, by drowning. Intending to erect a new house, he had dug the stoke-hole, and then changing his mind he erected the house in another part of his place. The stoke-hole, being in rather a low spot, became full of water; it was not very deep and all the rubbish was being thrown in to help fill it up. Last Monday Mr. Foulds was doing some planting near this place and his little girl was playfully helping him. Not noticing her in a few minutes, he supposed she had gone into the house. Just then his wife called him in to get some refreshment, when not seeing the girl there he became alarmed. The greenhouses and then the stable were hastily searched, and not finding her the stoke-hole was dragged, and to their horror the body of the little one was brought up. She had fallen in while her papa's back was turned. Every effort was made to bring back the life, but it was too late; the little spirit had fled. Such scenes are heartrending, but surely there is a moral to this one.

K.

On Wednesday, July 27, a very enjoyable trip was taken by a number of gardeners and florists to historic Valley Forge, the guests of Mr. Charles Simm, landscape gardener of Rosemont, Pa.

At 8:45 a. m. train was taken at Broad Street Station for Rosemont, where we were met by Mr. Simm and his Tally-ho. The trip was through one of the most picturesque and delightful parts of this favored State. It was a thoroughly enjoyable time to all concerned. Mr. Simm's guests were George C. Watson (John Gardiner & Co.), D. D. L. Farson, George Anderson, Isaac Kennedy, Charles Colburn, Gordon Smirl, gardener to Joseph Sinnott, Esq., Edwin Lonsdale, John Nisbet, Richard Heron, Mr. Warner and some others. Messrs. Westcott, Craig and Harris were to have been of the party, but they went to Waretown trying to catch fish instead. Mr. Battles also was to have been with us, but business interfered. Everybody regretted David

Bearn's sad accident, which prevented his presence. He is, we are glad to learn, progressing as rapidly as possible toward recovery considering the nature of his injury, a broken wrist.

Many scientific subjects were discussed on the outward trip, fuel, etc. The qualities of different materials as conductors came up. With one accord everybody agreed that glass was one of the best of them.

The weather was warm, but it was a breezy and a merry party. The scintillations of wit which flashed from time to time added to the good feeling.

The arrival was made about noon, just in time to thoroughly enjoy the bounteous lunch generously provided by our host.

We sought a high and shady spot, where we lingered long admiring the magnificent scenery which was spread for miles and miles before us. Later in the day we strolled around taking in many points of interest, and botanizing a little, about this sacred ground where Washington and his patriotic followers suffered untold hardships in the dark days of 1777.

R. Lauterbach, a fellow-craftsman, was found in the vicinity busy building a new greenhouse. Work was for the time being suspended and Mr. L. conducted the party to a point of interest which had heretofore been overlooked. It had been used during the Revolution as a hospital.

The homeward trip was without especial incident other than the merry boys kept each and all in hilarious mood during the whole journey. Everybody voted and sang, "Charlie is a jolly good fellow," and will long hold in grateful remembrance the trip to Valley Forge.

L. F.

Sizes of Bulbs.

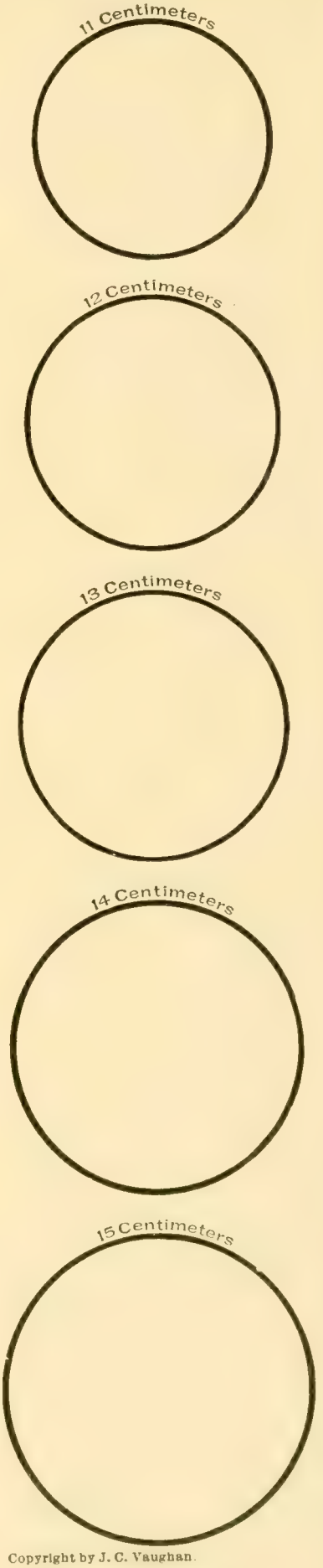
We present herewith five engravings of different diameters of bulbs, which will make plain to our readers the measurements adopted by the French growers. We believe they will be of some little value to our readers in verifying the sizes of bulbs received by them.

We are indebted to Mr. J. C. Vaughan, the Chicago seedsman, for the use of the engravings, which he has had copyrighted.

Washington.

The weather in Washington during the past week has been most uncomfortably hot, thermometer ranging from 96° to 104° in the shade. The florists' business is simply suspended. It has been too hot to push convention matters, though the various committees have been at work all the time. At the meeting held in Concordia Hall July 29 their reports were very satisfactory and the meeting was fairly well attended, notwithstanding the heat was more oppressive than any evening during the week.

The bowling committee seems to be doing more than any of them; Capt. Freeman reported July 29 that Mr. Jerome Desio, the well known manufacturing jeweler of 1223 Pennsylvania avenue N. W., had presented the bowling club with a handsome cup valued at $50 for the Washington 2nd prize, and that Mr. J. J. Forsythe, the artist of 1208 F street N. W., had presented the club with a beautiful etching to be handsomely framed by Mr. Forsythe, this to be the 3rd Washington prize. The committee are not satisfied with this, but propose trying to secure several individual prizes. The two cups and the etching are to be the property of the club winning them.



Copyright by J. C. Vaughan.

SIZES OF BULBS.

The committees on exhibition, entertainment, decoration and reception all made very good reports. Mr. Freeman is busy securing hotel accommodations for clubs and individuals who intend coming to the convention. Everything points to a large attendance and we trust there will be, and that this may be the largest convention in the history of the S. A. F.

Messrs. C. Strauss & Co. (through Mr. Benj. Durfee, Chairman Executive Committee National Gardeners' Club) in conjunction with the Herendeen Manufacturing Company has arranged for a free carriage ride to the greenhouses of the former on Tuesday after 12 o'clock. A luncheon will be served at the place. This will be exclusively for members of the S. A. F. Messrs. C. Strauss & Co. have 150,000 feet of glass, mostly devoted to rose growing. They have just finished their rose planting for this season, having been at it for several weeks past. They have about 100,000 fine healthy plants now in the ground. Perles seem to be their main stay. Of these there are about 20,000, Brides 15,000, Mme. Pierre Guillot 10,000, White La France 8,000, Gontiers 3,000, Mermets 3,000, and the others are La France, Woottons and American Beauties. They have about 5,000 new European varieties, all looking remarkably well. They have five houses in which they intend planting 30,000 carnations this fall.

Mr. Adolphus Gude, of the firm of Gude Bros. on F street, has the sympathy of the florists of Washington in the loss of his infant son who died July 29.

The bowling clubs intending entering the contest for the cups and other prizes should notify Capt. J. R. Freeman at 612 13th street N. W. at once, that ample arrangements may be made for their comfort and convenience. This is of the greatest importance.

C. LESLIE REYNOLDS.

Baltimore.

The temperature Monday night at the club meeting was an indication of what was coming. It was really too hot for any one, fat or lean, to enjoy talking about firing or fuel, or listening to another on the same subject, and yet that is just what the meeting was held for, Mr. Vogel having promised to explain his method of using coal dust and clay to the club.

He began by correcting a printed report of his fire, which stated that a layer of material 6 inches thick would carry steam enough to heat 4,600 feet of glass 40 hours, whereas he only claimed that a layer 12 inches thick would heat the houses 18 hours, or from 3 p. m. until 9 a. m. the next day.

He is very enthusiastic over the merits of his plan and said his coal bill had been reduced from $85 to $35 per annum since adopting it. He cautioned all who wished to try the plan to carefully observe the following points:

First. Have the space between top of grate bars and bottom of boiler twice the thickness of the layer of fuel required. He uses a layer of 12 inches himself and has a space between grate and boiler of 24 inches.

Second. Build a fire of wood or shavings, completely covering the grate evenly all over, scattering over it evenly enough pea coal to make a slight fire after the wood has burned away. He uses shavings from car works.

Third. After the wood has burned away cover the whole fire with a uniform coat of the coal dust and clay of a thickness proportionate to the length of time the fire is needed. Beating down very lightly to give the mass consistency enough to admit of being perforated.

Fourth. Perforate the layer of fuel from top quite down to the grate bars with holes ½ inch in diameter, perfectly vertical and as near 3 inches apart each way as possible.

The dust and clay must be thoroughly mixed in the following proportions: 8 parts of coal dust to 1 part of clay and water about the consistency of cream. If mixed in greater quantity than needed at once care must be taken to keep at about the same state of dampness as when first mixed. If too wet it will put out the fire, if too dry it can not be perforated with holes that will remain, and this is the whole art of the process, the clay and water in small quantity giving the coal dust tenacity enough to keep the holes and permit draft.

In order to effect the perforations Mr. Vogel uses a piece of wrought pipe long enough to reach easily the farthest corner of his furnace; to the end of it he has attached by an ordinary quarter bend another piece of pipe 12 inches long.

The chief objection to the scheme, "That nothing could be done to keep the fire going if so desired on account of severe weather," he answered by saying that his plan had been to clear out the clinker immediately after the fire has burnt out and build a small fire of pea coal to keep up heat until time for putting on the regular fire for the night.

He has tried the plan 6 or 7 years and has also tried city gas, gasoline and other things, but abandoned all for this. Bituminous coal will not do as it can not be prevented from running together and stopping the draft.

Has one furnace and boiler for all his glass, the grate surface 24x22 inches, smoke stack 21 feet high, connected with furnace by a flue 25 feet long.

Mr. Ekas suggested that if all florists were to begin using dust the price might soon be as great as No. 1 coal, but Mr. Vogel thought not as the companies would be glad to get rid of the immense accumulations of dust around the pits at any price.

Mr. V. also advised that those who did not care to try his plan in toto, try using thin layers of screenings over bright fires of lump coal, not putting enough on to choke the draft.

The thanks of the club were voted Mr. Vogel for his paper.

After a little chat among the members over the plan, in which several were heard to promise it a trial next winter, the regular business of the club was taken up and two new members elected.

Then a letter was read from our absent secretary, written while passing through the English channel. The first land he had seen after leaving America had a well kept garden and three greenhouses on it, so he did not feel as much of a stranger as he had expected to when he took the glass for a look at the distant shore. He expected to arrive in Bremen July 5.

Pres. Fraser called the attention of the club to the proceedings of certain so-called florists who visit houses where a death has occurred and solicit orders for flowers and designs, at the same time reading the address on a card left by such a person at the house of an acquaintance of his. The members were very indignant, as this practice is calculated to bring the whole funeral trade into contempt, and passed a resolution expressing their disgust at both the plan and parties who prosecuted it.

The governor and mayor and the following gentlemen having been elected honorary members replied in very complimentary terms and their letters were read: Messrs. J. C. Vaughan, E. F. Abel, Geo. W. Abel, T. J. Wentworth, Chas. H. Grestie, F. Raine, Jas. R. Pitcher, A. Beckhoffer, Felix Agnus, T. H. Spaulding. Adjourned.

Business is still very dull. The temperature having been from 98° to 102° every day this week no one stays in town that can possibly get away.

Sam'l Feast & Sons are putting up two new rose houses 100x22 feet each and a chrysanthemum house 50x18.

R. Patterson had the roof burned off the store on Madison street. Damage slight. MACK.

Buffalo.

There is little to add to my last notes about the hail storm. It was local in extent, covering an area of about four square miles. Scott was the only one that had hail insurance, but now several have come to the conclusion that hail insurance is a good thing. We can all be thankful it was no worse, for outside of broken glass little harm was done to stock. When we hear of the poor florists of Bradford, Pa., we realize how cheaply we got off. Some Bradford man may send particulars of their terrible visitation, but my knowledge of the losses is as follows: Mr. Rockwell, both at his city greenhouse and his growing establishment about one mile out, had not a piece of glass left larger than a clam shell. And the heavy double thick glass falling down together with the hail utterly destroyed all his stock. Mr. Graham, the rose grower, suffered about the same. He says he counted 40 lights left whole out of 4,000 feet of glass and two houses of young roses were entirely destroyed. The Marilla gardens (Miles & Howe, proprietors) were not hit quite so bad, being at the tail end of the storm.

But little trifles like hail storms don't stop the sportive nature of the Buffalo florists from asserting itself when occasion offers, and so the annual base ball game, West Side vs. East Side, was played on Saturday, the 23d, at the Park Meadow. It would not be of general interest enough to give a detailed account of the game. Suffice it to say the East Side won, although it was anybody's game till the last half of the ninth inning. There was a refreshment tent and when the game was started the tent was full of all that is conducive to make players happy. At 7 p. m. when game was called there was little left but canvas. We expected Mr. Walter Mott to arrive from Toronto in time to umpire the game, but he failed and so an East Sider officiated in that enviable position. It is needless to say all close decisions were given to the East Side. The only grievance the West Side has is that the other side put in a semi-professional battery, but even with that they had a close squeak. Their catcher was Louis H. Neubeck, the same who caught in that famous game of Buffalo vs. U. S. in 1889 in Buffalo, when the entire continent (of florists) had to take a back seat. Such old chaps as J. F. Cowell, E. I. Mepsted, Edw. Buxton and "G. S." played and did brilliantly. D. B. Long and C. F. Christensen were there; the former kept score and the latter made several beautiful plays (inside the tent). J. H. Rebstock played in center field and nothing escaped him, while Mr. Laurence in right field was a grand example to young men who aspire to play the national game. To conclude, the West Side had the brains, experience and good nature, while the East Side had the aggressiveness and bluff.

We are soon to have another wholesale grower in our vicinity. Mr. H. J. Wise, late of New Jersey, has bought land in the beautiful village of East Aurora, about 18 miles from Buffalo, and is erecting two houses in the most approved style, destined to grow roses for the Buffalo market. As Mr. Wise is a gardener of long experience, there is little doubt about his success.

Mr. J. I. Cowell, who has charge of the horticultural department of our big exposition here in August, has gone east to look up exhibitors for the same. The prizes are liberal and there should be an excellent show.

Your correspondent was in attendance at the Toronto flower show last week and bears testimony to the excellence of the display of palms, ferns, caladiums, etc., and thinks that few towns, if any, of Toronto's size in the United States could make such a show. But at the same time the "rooster" who is crowing about such a show not being equalled in this country is getting far out of his depth. Perhaps he has never heard of Boston, Philadelphia or New York, besides several other villages. However, talk is cheap. The best way is to get up an international show with prizes that will pay exhibitors to send their plants to some city that is most convenient to the people of both sides of the great lakes. There is a company here running a big international fair and size of premiums would be no object if it would produce the best displays of the continent. I trust it can be done, and let us take the conceit out of the Canucks and their spokesman, "E."

Mr. and Mrs. W. J. Palmer, Jr., are rejoicing over the arrival of an 8-pound son, born July 29, and which they have named William Mark Palmer. G. S.

St. Louis.

Trade about the same as last week.

Temperature is getting down to about the normal and we are beginning to live again.

The lotus ponds in the Botanical Garden and parks have been very fine this season. "How beautiful!" "Grand!" "Perfectly lovely!" are the remarks constantly heard about the ponds.

The lotus is perfectly at home here. The only difficulty with it seems to be the attacks of the nelumbium moth (Botis nelumbialis, Smith), which often ruins the appearance of the plant for the entire season, besides leaving the plants weak for the next year.

The eggs are probably laid on the leaves, although I have not yet had the good fortune to see them. The larva when first hatched draws over a portion of the edge of the leaf and binds it down with fine silk, making for itself a snug home where it is out of sight of enemies. It eats about the edge of the leaf and also eats holes through the leaves from the upper surface. As it gets larger it bores into the leaf stalk, usually penetrating it from the center of the leaf on the upper surface. Sometimes, however, it commences its burrow at the side of the stalk from the underside of the leaf. It comes out of this burrow to feed on the surface of the leaf. When the larva is full fed it spins a silken cocoon in the

burrow, covers over the opening of the burrow with a neat closely-woven silk covering and changes to a pupa, from which it soon emerges a small beautiful brown moth. There are at least two broods here.

Mr. Smith describes and figures this insect in *Garden and Forest*, Feb. 19, 1890. The only comfort he gives the lotus lover is the remark: "Unfortunately the insect seems to be increasing and bids fair to render lotus growing unsatisfactory."

It being a part of your correspondent's duty to study and destroy the insect pests at the Missouri Botanical Garden, he has come in personal contact with this lotus destroyer. Various insecticides were tried. Paris green and kerosene emulsion were worse than the insects; insecticides in solution would not remain on the foliage; powdered white hellebore dusted on with hand bellows killed the larvæ and did not damage the plants. The hellebore should be applied after every rain, as the rain washes off all that may have been previously applied.

Our nelumbiums, both in the garden and park, have been vigorous and free from the worms since we began the use of this powder.

Hellebore, one ounce to three gallons of water, will destroy rose slugs, currant slugs, gooseberry slugs, and in fact, any of the slugs. It will also kill the cabbage and cauliflower worms and is perfectly safe to use. It would probably destroy the slug that is so troublesome in greenhouses, although this pest belongs to an entirely different class than those mentioned above, which are all true insects.

J. C. DUFFEY.

Chicago.

Business is still too dead to be worth mentioning.

The weather has turned much cooler, and life is worth living again.

Quite a number of florists in the West and Northwest have signified their intention of traveling with the Chicago party to Washington. The train selected will leave here over the Pennsylvania Railroad at 3 p. m. Sunday, August 14, reaching Pittsburg at 8 o'clock the next morning. The Pittsburg party will join us there. Washington will be reached Monday evening. The tickets secured have a very satisfactory limit as well as being placed at a low rate, and any one wanting to visit other cities in the East after the close of the convention will have abundant time to do so without losing the reduced rate on his return ticket.

Among recent visitors to the city were Mr. Antoine Wintzer, of the Dingee & Conard Co., West Grove, Pa., and Mr. W. Bertermann, Indianapolis. Mr. Wintzer was much pleased with the progress made in the Horticultural Department of the World's Fair. He is now getting 5,000 tea roses into shape for displaying in Uncle John's department next year.

REPLYING to the several inquiries regarding Messrs. Wilson Bros., of Springfield, O., this firm does not seem to give proper attention to its correspondence or orders. In view of the complaints that have reached this office, and regarding which we failed to get any reply from the concern named, we regret to say that we can not recommend this firm to the trade.

LAST CALL for advs. in the convention supplement. Noon of August 8 is the last date at which they can be received and be sure of insertion.

The Nursery Trade.

AMERICAN ASSOCIATION OF NURSERYMEN.

H. AUGUSTINE, Normal, Ill., president; Z. K. JEWETT, Sparta, Wis., vice-president; CHAS. A. GREEN, Rochester, N. Y., secretary; N. A WHITNEY, Franklin Grove, Ill., treasurer. The Eighteenth annual meeting at Chicago, June, 1893.

Notes From Rochester.

BY. WM. FALCONER

Ellwanger & Barry's nurseries are on the outskirts of the city; the electric cars go past their door. They own 650 acres of land in and about Rochester and cultivate 550 acres in nursery stock. They also hire a deal of land of the farmers some miles out of town for growing fruit trees, for a rotation of crops is as beneficial in the tree line as in agricultural crops and the best quality stock can be grown only by resting the land with some other crops. In the case of these hired lands the firm always attends to the cultivation of the stock, for no matter how careful the farmer might be, he would be apt to skin a good many trees with his whiffle-tree in cultivating between the rows. Then there are always a few things to see to, as labels, insects, pruning, suckering and the like.

The main nurseries about the offices consist of the greenhouses, trial grounds, herbaceous plant department, specimens of ornamental trees, orchards of stock fruit trees and the residences of the firm. But the city is now encroaching upon them and to reap the advantage of its inroad they are grading the side of their lands next to the city, laying it out in streets and building houses upon it. Years ago they were alive to this order of things and in planting specimen trees—beeches for instance—upon their grounds, so arranged it that these trees would come into the yards of the houses on the new streets and be preserved. Their grove of Sequoia gigantea is now on the verge of these improvements. Let us hope they never will be interfered with. They consist of nine trees near together, straight as an arrow, and about seven feet in circumference of stem. I tried to clasp one of them with my arms, but couldn't. They are the finest lot of these trees that I know of east of the Rocky Mountains.

The first tree of the fern-leaved weeping birch that came to America is still growing in this nursery.

Magnolia macrophylla grows splendidly there; so, too, do the other early flowering deciduous sorts.

Weir's cut-leaved weeping maple is much appreciated, and so it ought to be, for it is one of the handsomest trees in the world, even if it is a soft maple.

The golden oak (Quercus concordia) is valued as the best of yellow-leaved trees.

Mountain ash and ornamental thorns (cratægus) do well, but I noticed that the mountain ash is entirely bare of fruit this season. Is this general?

Horse chestnuts do famously everywhere about there, even as city trees.

Their variety of shrubbery seemed about as extensive as we have on Long Island, notwithstanding their more northern and inland situation.

But the Rochester soil is fine for trees, especially young stock. It is stiff, loamy, with sand on a stiffer bottom. This induces good fibrous surface root action and discourages deep or tap-rooting growth.

A peculiarity of these nurseries is the absence of big unsalable stock; nothing of that sort is allowed to cumber the ground. What stock isn't sold in due season is grubbed up and burned. The ground has got to be filled full with a paying crop, for it has got to be cultivated and kept clean anyway.

They rest their lands with crops of hay, grain or corn, and when I was there they were plowing under a heavy crop of timothy and clover for fertilizing purposes. One man went ahead of the plow to lay the hay over so that the plow could cover it better.

Of fruit trees not only do they grow an enormous young stock, but their experimental orchards are unsurpassed in the state. Every variety is grown. And what fine fruit they raise there! Mr. Barry told me that Anjou pears were one of the best paying crops they handled. They also have large vineyards and for comparison's sake grow every variety of hardy grape that ever was sent out.

Besides being sagacious and exceedingly successful business men, they are among the most public spirited citizens of the Flour City. They have presented 25 acres of their nursery grounds to the city for park purposes and also have agreed to let the commissioners have all the trees and shrubs they need, so far as they are in stock in the nurseries, gratis for the city arboretum.

Public parks, however, are something new to the city of Rochester, but the people don't seem to appreciate them; they are continually grumbling about the taxation the parks involve. Poor folks! Can't Boston or Chicago spare them a little enthusiasm? It has four new parks now under way, and instead of growling, it is rejoicing the people should be to secure them. A love for their parks will grow on them, however, for on Sunday afternoon when I visited South Park, Highland Park and Genesee Park the people were there in multitudes, well dressed, well behaved and happy. Ten years from now your parks will be your pride, and let us hope, your stinginess your shame.

A clergyman on the board of park commissioners is something unusual, but there we have one in the person of the Rt. Rev. B. J. McQuaid, Bishop of Rochester, and his appointment was a lucky job for the city. He wants parks and he wants them properly supported, and he has energy, sagacity and the courage of his convictions.

Highland Park is to be the arboretum of the city of Rochester, and now its nursery rows are being filled with all manner of trees and shrubs—the contents of catalogues north and south, in Germany, France and England. In my opinion, however, it is none too large for a proper representation of species and natural varieties, let alone the inflated lists of garden varietal names of foreign nurseries.

A Lawson cypress, seven to eight feet high, and in good health in a clump among other trees in Holy Sepulchre Cemetery rather surprised me. It isn't often we find a Lawson as far north as that.

A fine morinda spruce (Picea morinda) on a high bank by the roadside in Mount Hope Cemetery was a still greater surprise. But then I remembered that years ago Ellwanger & Barry had a hardy form of this Himalayan evergreen and it was largely propagated and distributed. On inquiry I found that this individual was one of the descendants of E. & B.'s hardy form.

No mosquitos! Now comes one of the most delightful experiences of my visit to Rochester. I was the guest of Bishop

McQuaid at his country home at Hemlock Lake, about 40 miles from the city. He has a farm of 215 acres there on the steep, east-facing slope of a high rocky hill on the Livingston County side of the lake, and there for a whole night and a whole day I neither saw, heard nor felt a mosquito or gnat! Coming from Long Island, don't you think I was lonely?

The bishop has 60 acres in vineyard and makes grape growing and wine making a specialty. The wine is absolutely pure; in its manufacture neither sugar, water nor any other substance is added; it is the pure and unadulterated juice of the grape and is sold and used for church purposes and the revenue derived from it goes to the support of the Theological Seminary at Rochester.

For wine making he uses about a dozen varieties of grapes in quantity and about twenty more experimentally. Those most preferred are Concord, Salem, Delaware, Brighton, Elvira, Hartford, Champion, Worden, Agawan, Stace's seedling and Iona. Niagara as a wine grape is disappointing, Catawba doesn't ripen always, Clinton is unsatisfactory, and so on.

News Notes.

MR. H. BAYERSDORFER, of Philadelphia, arrived home from his European trip July 21.

NEVADA, MO.—C. W. Talbot has added two substantial rose houses 20x75 and will soon have completed a chrysanthemum house 12x75.

SHORT HILLS, N. J.—Ernst Hemming, in the employ of Pitcher & Manda, being a sufferer from hemorrhage of the lungs, was on July 19 presented with a purse of $50, by the employes of the above firm, to enable him to go to Colorado.

ALLEGHENY, PA.—T. F. Beckert and brother (A. J.) have purchased 25 acres on Neville Island in the Ohio River, nine miles below Pittsburg. They have in course of erection 10 houses, containing 30,000 square feet of glass, mainly 16x24. Walls and piers of brick. The style and P. O. address of firm will be Beckert Bros., Glenfield, Pa.

NEW ORLEANS.—The New Orleans Horticultural Society held its annual meeting July 21, and elected the following officers for the ensuing year: C. W. Eichling, president; J. H. Menard, vice-president; Chas. Wise, Secretary; John Eblen, treasurer. It was decided to hold a grand floral exhibition in the spring of 1893. The date was left for future determination. After the meeting the members of the society repaired to the Vonderbank Restaurant, where a tempting banquet was partaken of and addresses delivered by the officers.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By an experienced florist as second man on inside work. Skilled designer. Best references. Address O E, care Am. Florist.

SITUATION WANTED—By an experienced and reliable western florist to handle commercial place. If not successful, will expect no salary. N E N, care Am. Florist, Chicago.

SITUATION WANTED—A well known florist will recommend a young man; 10 years' experience; age 24. Competent to take charge of private or commercial place. Address G, care Box 178, Sharon, Pa.

SITUATION WANTED—As rose grower and general assortment of bedding plants and cut flowers on commercial place. Chicago preferred. Would run a place on shares. Address P. O. Box H, Newtonville, Mass.

SITUATION WANTED—By a married man as foreman in a commercial or private place; 20 years' experience; understands the business in all its branches. Good references as to experience, etc. Address W. 522 Pine St., Scranton, Pa.

WANTED—A boiler in good condition, to heat about 3,000 ft. of glass. Address KRIEGER & CO., Mt. Sterling, Ky.

WANTED—A well experienced lady florist. Apply to ART FLORAL CO., 3911 Cottage Grove Ave., Chicago.

WANTED—To buy from 3,000 to 6,000 feet second-hand, 9 ft. Hitchings soil pipe. AUG. BURMEISTER & CO., Box 4, Bay View Station, Milwaukee, Wis.

WANTED—To rent a florist place in New York or vicinity with at least 5 or 6 greenhouses. Furnaces and water pipes must be in good order. State price. W. ECCLES, care L. D. Ripley, Esq., Hempsted, Long Island, N. Y.

WANTED—A man to take charge of a commercial plant of 14 greenhouses, to grow mostly cut roses and small rose plants. Prefer married man. Must have good references; others need not apply. Address LAROCHE & STAHL, 1237 Chestnut St., Philadelphia, Pa.

FOR SALE CHEAP—Hitchings boiler No. 16 and 1000 feet 4-inch pipe. Only been in use 6 months; good as new. Address B. REDFIELD, 141 Dock St., Philadelphia, Pa.

FOR RENT—One of the best paying florist stands in Philadelphia; store, hothouse and dwelling; established 23 years. In consequence of ill health owner is compelled to retire. Will be rented low to a responsible party. Address R. C. SNYDER, 727 Walnut St., Philadelphia.

FOR SALE—FLORIST'S WAGON, covered front and back, lined and padded, 7 ft. 6 in long, 6 springs, heavy wheels (2-inch tires), Cannon Bros., mf'gs., but slightly used, cost $300, will sell cheap. Full particulars on application. WM. QUIBELL, 5th and Erie Sts., Phila., Pa.

FOR SALE—A Devine hot water boiler, will heat 2,000 feet of 4-inch pipe; 1,500 ft 4-inch pipes and fittings; 1,800 ft. 8x10 glass (single thick); 1,200 ft. 7x9 glass; 66 sashes 8x10 28 lights. Will sell the above for $250. The boiler and pipes are comparatively new. T. D. RIMMER, 2714 Fifth Ave., Chicago.

FOR SALE OR RENT—Rose growing plant containing 25,000 square feet of glass, with property, situated 25 miles from New York City. Stock and houses in A 1 condition. Houses all planted; mostly American Beauty and La France. Will sell on easy terms. Address ROSE GROWER, care Am. Florist.

SPECIALTY FLORIST BUSINESS FOR SALE.

I offer my business of rooted cuttings, stock, greenhouses, etc., at a fair price. The greenhouses to be moved from present location. Correspondence solicited.

S. B. FIELD, Roselle, N J.

FOR SALE.

A No. 1 improved good business stand in the city of Nashville, Tenn., 75,000 inhabitants. 10 city building lots or about 1½ acres of the best land, thereon is a dwelling of 8 rooms and an L cornered porch, well shaded with trees and vines, six greenhouses, five heated by steam and one by flue two wells with windmills, good many sashes and cold frames, stock rather small, of about $500, consisting of roses, bedding plants and hardy shrubs and grasses. This property I will sell very low, at near one half value, as I can't stand greenhouse work any longer. Terms one half cash, balance in one or two years time. Also I have about 20,000 violet plants and clumps, ready now. Prices given on application.

M. TRITSCHLER,
NASHVILLE, TENN.

FOR RENT.

Twenty greenhouses, all heated by steam, in a large western city; well located for business, being within one block of principal cable line and doing a business of $15,000 to $20,000 a year. The place is well known and does a large shipping business in adjoining states. One half of the houses are at present devoted to cut flowers, balance to plants. Stock, tools, wagons, horses, etc to be bought by the one leasing the place. This is a good opportunity for anyone who has the capital to run a place of this size. And I will rent the place low as other business in which I have engaged occupies my entire time.

Do not answer this unless you mean business and have the capital which a place of this size demands. Address

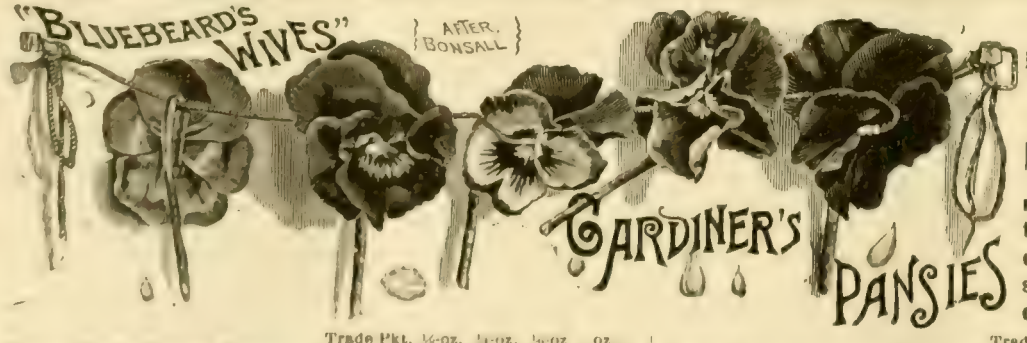
BOX 50, care Am. Florist, Chicago.

RESERVOIR ROSE GARDENS FOR SALE.

The most complete florist's plant that can be built. Six houses 100x20 feet, heated by steam, large work room, office, dwelling, stables, etc., 3½ acres of land. Convenient to electric cars. The houses are filled with roses for forcing next winter, and also a miscellaneous class usual in a florist's establishment. Thousands of roses are growing out. It is desired to sell the growing plants and improvements and lease the ground, but will sell the ground if desired.

Terms cash, or if satisfactory security is given, the purchaser may make his own terms.

Address **MRS. ANN E. GRANT,**
400 E. Franklin, RICHMOND, VA.



GARDINER'S
Rare and Beautiful
PANSIES.

NEW SEED of the following noted strains is now ready. It will be observed that prices are much lower on most of the newer strains this year. Your orders will be esteemed.

	Trade Pkt.	⅛-oz.	¼-oz.	½-oz.	oz.
Pansy, English Choicest Fancy	$.50	$1.50	$2.75	$5.25	$10.00
" English and Scotch Show	.50	3.00	5.00		
" Cassier's Superb Giant	.25	1.00	1.75	3.25	6.00
" Roemer's Giant 5 spotted	.50	3.00	5.00		

	Trade Pkt.	⅛ oz.	¼-oz.	½-oz.	oz.
Pansy, New Odier or Prize Blotched	$.25	$1.00	$1.75	$3.25	$6.00
" Bugnot's Giant French	.50	1.00	1.75		
" Giant French Stained	.50	1.00	1.75		
" Trimardeau Giant French	.25	.60	1.00	1.75	3.00

Our International Prize Strain contains all the above sorts in mixture as well as many other beautiful varieties.

PANSY, GARDINER'S "INTERNATIONAL PRIZE" Trade Pkt. 50c.; ⅛ oz. $1.25; ¼ oz. $2.25; ½ oz. $4.25; 1 oz. $8.00.

JOHN GARDINER & CO., 21 N. THIRTEENTH STREET, PHILADELPHIA, PA., U. S. A.
SEED GROWERS, IMPORTERS AND DEALERS.

ROSES.

		Per 100
WABAN	3-inch	$ 7.00
LA FRANCE	3-inch	8.00
BRIDE	3-inch	6.00
PERLE	3-inch	8.00
WHITE LA FRANCE	3-inch	10.00

HYDRANGEAS.

ROSEA	2½-inch	5 00
CYANOCLADA	2½-inch	5.00
WHITE FRINGED	5-inch	10.00

Splendid stock; clean and well grown.

J. H. HARVEY,
RICHMOND, VA.

THE
NEW ROSE
BRIDESMAID.
FRANK L. MOORE,
CHATHAM, NEW JERSEY.

ROSES.

TEAS $30.00 per 1000
HYBRIDS 40.00 per 1000
Healthy plants, in 2-inch pots.
Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.
Trade list on application.

Jacob Schulz,
LOUISVILLE, KY.

ROSES.

Waban, Mermet, Perle, Mme. de Watteville, Bride, Papa Gontier, Niphetos, La France, Bon Silene, Souv. d'un Ami.
Fine, healthy stock from 2½-inch pots $5.00 per 100; $45.00 per 1000.

SMILAX from 2½-in. pots, strong, $3.00 per 100; $25.00 per 1000 Send for price list.

WOOD BROTHERS, Fishkill, N. Y.

ROSES.

1000 ALBANY.
1000 LA FRANCE.
1000 MERMET.

From 3 and 3½-inch pots, in fine condition, equal to 4-inch pot stock.
Price and samples on application.

NATHAN SMITH & SON, Adrian, Mich.

ROSES.

1000 American Beauties in 3-inch pots, left over after planting my houses.

First-class stock; $7.00 per 100; the 1000 for $60.00.

O. P. BASSETT, Hinsdale, Ill.

FORCING ROSES.

Leading sorts, 3 and 4-inch pots.

A. S. MacBEAN, Lakewood, New Jersey.

WANTED

6 Large Double Pink Oleanders.
4 Large Double White Oleanders.
5 Large White Abutilons.
5 Large Yellow Abutilons.
5 Large Scarlet or Crimson Abutilons.
State size and price

SALZER SEED CO., La Crosse, Wis.

SMITH, The Florist,

GROWER OF

Fine Roses & other Cut Flowers

WHOLESALE AND RETAIL.

77 S. 7th Street, MINNEAPOLIS, MINN.

ROSES. FIELD GROWN, FOR FORCING.

GOOD, STRONG BUDDED PLANTS ON MANETTI ROOTS.
HOME GROWN MUCH SUPERIOR TO IMPORTED STOCK.

Mrs. J. H. Laing, Ulrich Brunner, Gen. Jacqueminot, Magna Charta, and a full list of leading Hybrid Perpetuals for greenhouse and garden planting.

LARGE LOT EXTRA FINE MOSS AND CLIMBING ROSES.

Our usual full assortment of Fruit and Ornamental Trees, Hardy Shrubs, Hardy Plants, Bulbs, Greenhouse Stock, Etc.

LET US ESTIMATE ON YOUR LIST OF WANTS FOR COMING SEASON.

Fall Catalogue and Trade List FREE, ready in August.

THE STORRS & HARRISON CO.,

PAINESVILLE, OHIO.

THE ATTENTION OF FLORISTS

and others is invited to our immense stock of *FIELD GROWN*

HYBRID PERPETUAL ROSES for FORCING,

Ready for Shipment October 1st.

The plants are principally 1 year budded low on Manetti, all of our own growing (*which are superior to the imported*) and embrace the best kinds suitable for the purpose. We have also a fine lot of *Climbers and Mosses. Parties desiring particular varieties should send in their orders early as possible. Prices compare favorably with those of European growers.*

CORRESPONDENCE SOLICITED. ORDER EARLY. CATALOGUE FREE.

ELLWANGER & BARRY,
Mount Hope Nurseries, ROCHESTER, N. Y.

ROSES.

We still have for sale 8,000 FIRST QUALITY FORCING ROSES grown from strong cuttings in 3 and 4 inch pots, ready for immediate planting.

LA FRANCE and AMERICAN BEAUTY, 3-inch pots, $9.00 per 100; 4-inch pots, $12.00 per 100.

WABAN, MERMET, SOUV. DE WOOTTON,
SAFRANO, BON SILENE, PERLE DES JARDINS,

3-inch pots, $7.00; 4-inch pots, $10.00 per 100.

☞ Send for rose circular. We wish every florist needing roses to read it.

J. L. DILLON, - - Bloomsburg, Pa.

100,000 ROSES

for florists' planting, strong, healthy plants of the leading varieties for forcing.

PERLE, SUNSET, WABAN, LA FRANCE, MERMETS, BRIDES, NIPHETOS, PAPA GONTIER, MME. CUSIN, MME. WATTEVILLE, MME. HOSTE and GEN. JACQUEMINOT.

20,000 CHRYSANTHEMUMS, 100 varieties, including Novelties of '92, and the best standard sorts. Send for catalogue.

A. N. PIERSON, Cromwell, Conn.

Forcing Roses.

NOW READY FOR PLANTING

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The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Coming Exhibitions.

Eaton, O., Aug. 11-13—Annual flower show Eaton Floral Society. H E Jephson, Sec'y.
Washington, D. C., Aug. 16-19—Annual trade exhibition of Society of American Florists. C. F. Hale, 719 14th street, Supt. of exhibition.
Detroit, Mich., Aug 23-Sept 2—Exhibition Floral Dep't International Exposition. B. Schroeter, Sup't.
Boston Sept. 6-9—Annual exhibition plants and flowers, Mass Hort Society Robert Manning, Sec'y, Hort. Hall, Tremont St.
Galt, Ont., Sept. 7-8—Exhibition of fruit and vegetables Galt Hort. Society. Edward Lane, Sec'y.
Montreal, Sept. ——Annual exhibition Montreal Hort. Society.
Boston, Oct. 4-6—Annual exhibition fruits and vegetables, Mass. Hort. Society.
New York, Nov. 1-7—Chrysanthemum show, New York Florists' Club. Wm Plumb, mgr. of exhibition. Madison Square Garden.
Philadelphia, Nov. 7-11—Chrysanthemum show, Pennsylvania Hort Society. D. D. L. Farson, Sec'y, Horticultural Hall, Broad St.
Galt, Ont., Nov. 8-9—Chrysanthemum show Galt Hort. Society Edward Lane, Sec'y.
Toronto, Ont., Nov 8-10—Chrysanthemum show, Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 276 Victoria St.
St Louis, Mo., Nov 8-10—Chrysanthemum show, St. Louis Florists' Club. Emile Schray, Sec'y, 4101 Pennsylvania Ave.
Hartford, Conn., Nov. 8-10—Chrysanthemum show, Hartford County Hort. Society. Julian S. Allen, Sec'y
Boston, Nov. 8-11—Chrysanthemum show, Mass. Hort. Society. Robert Manning, Sec'y.
Chicago, Nov. 8-11—Chrysanthemum show, Hort. Society of Chicago. G. L. Grant, Sec'y, 322 Dearborn St.
Worcester, Mass., Nov. 9-10—Chrysanthemum show, Worcester Hort. Society. E. W. Lincoln, Sec'y.
Montreal, Nov. 9-11—Chrysanthemum show Montreal Gardeners' and Florists' Club. W. Wilshire, Sec'y, 688 Sherbrooke St.
Washington, Nov. 15-17—Chrysanthemum show Washington Florists' Club. G. W. Oliver, Sec'y, 1844 8th St. N. W.
Baltimore, Nov. 15-18—Chrysanthemum show, Gardeners' Club of Baltimore. J. J. Perry, Sec'y, 221 N. Liberty St.
Indianapolis, Nov. 15-19—Chrysanthemum show, Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Massachusetts Ave., Indianapolis.
Pittsburg, Pa., Nov 15-19—Chrysanthemum show, Pittsburg and Allegheny Florists' and Gardeners' Club. G. Oesterle, Sec'y, 4200 Forbes St., Pittsburg.
Cincinnati, Nov. —— Chrysanthemum show, Cincinnati Florists' Society. E. G. Gillett, Sec'y, 136 Walnut St.
Pittsfield, Mass, Nov. —— Chrysanthemum show, Berkshire County Gardeners' and Florists' Club. A. H. Meredith, Sec'y, Pittsfield.
Erie, Pa., Nov. —— Chrysanthemum show, Erie Chrysanthemum and N. W. Penna. Hort. Society. H. Tong, Sec'y.
Bay City, Mich., Nov. —— Chrysanthemum show Bay County Hort. Society. T. J. Cooper, Sec'y.
Pittsfield, Mass., Nov. ——Chrysanthemum Show Berkshire County Gardeners' and Florists' Club. A. H. Meredith, Sec'y.

Honor to Whom Honor Is Due.

A writer in a recent number of *Garden and Forest* gives a most charming description of the beauties of the Italian Garden at Wellesley, and pays a high tribute to Mr. Hunnewell's enterprise and taste in laying out and maintaining this most renowned of all American places.

But we look in vain for one word of recognition or commendation for the man who has been Mr. Hunnewell's trusty lieutenant all these years, whose skill has planned and whose hand has accomplished this wonderful transformation of a sandy desert into such a paradise.

It is generally understood that at the beginning of his career Mr. Harris did not find Mr. Hunnewell in full accord with him as to the wisdom of the construction of this topiary garden, and it was only after much consultation and interchange of ideas that the plans proposed by Mr. Harris were finally acted upon.

But Mr. Hunnewell himself is not the kind of a man to withhold from Mr. Harris his full measure of recognition, or to forget how much of the conception and carrying out of this great work is due to his ability.

Incidentally we recall having seen whole columns written in description of the famous Arnold Arboretum where not once does the name of Jackson Dawson appear.

The regularity with which this tendency to ignore the workers appears in the contributions of a certain class of writers forces upon one the conviction that it is not wholly unintentional. Assuming this to be correct, it is hard to rid one's self of a feeling of contempt for minds so narrow.

QUITE A NUMBER of those who have sent us photographs for the convention supplement have asked us to book their orders for specified numbers of extra copies. As we shall print only enough extra copies to fill orders booked before we go to press, if there are others who wish extra copies they should send in their orders to reach us not later than August 9. On orders received by that date we can supply any quantity desired at the rate of 5 cents per copy.

IN OUR REPORT under the head of Worcester, Mass., in our issue of July 2, Mr. A. A. Hixon was named as the secretary of the Worcester Co. Hort. Society. Mr. Hixon calls our attention to the error and reminds us that Mr. Edward Winslow Lincoln is secretary and has held that position for many years.

AUGUST 1 was the last date at which we could use photographs in the convention supplement. If yours was not mailed to reach us by that date don't be disappointed if it was not used. We set the last date as late as was possible and still allow time for the work of engraving.

DO YOU WANT an alphabetical list of carnations in commerce in America with date of introduction and a brief, accurate description of each one, with synonyms noted? You will find such a list in our new trade directory and reference book.

THIS IS LAST CALL for advs. in our convention supplement. They must be received by noon Monday, August 8, at the very latest.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our new trade directory and reference book.

IF YOU HAVE anything to sell to florists you will make a mistake if you do not advertise it in our convention supplement.

COALDUST FOR FUEL.—Note something further about this matter in the Baltimore letter in this issue.

BRADFORD, PA.—A terrific hail storm did much damage to greenhouses here July 22. Nearly all the greenhouses in the city were literally riddled, and in most cases there was also a heavy loss in plants. W. C. Rockwell's loss will amount to about $3,000. The damage to the Marrilla Gardens is estimated at $2,000, and that of Mrs. S. E. Cameron at $1,500. George L. Graham's loss will also foot up to $1,500. The greenhouses on the Cross estate were seriously damaged, as were also numerous private conservatories. Taken altogether the storm will not soon be forgotten by owners of greenhouses in this city.

WINNIPEG, MANITOBA.—The Manitoba Industrial Agricultural Exposition opened July 25 with a very fine display in the floral department. The interest in this department is increasing annually, and it has come to be a very important feature of the exposition.

WASHINGTON CONVENTION.

Headquarters Florists' Protective Association,
EBBITT HOUSE, 14 h and F Streets, N. W.

The *Fourth Annual Meeting* of the Florists' Protective Association will be held in the *National Rifles' Armory, Washington, D. C.*, from *3:30 to 5 p. m.*, THURSDAY, AUGUST 18th, 1892. Owing to the limited time at our disposal all members are urged to be on time, and to come "brim full" of new ideas and enthusiasm. The management will have some new matters to present, which they think will add to the value and efficiency of the service. Do not fail to attend this meeting. H. B. BEATTY, Sec'y.

The Secretary's rooms are ——, Ebbitt House, where he will be pleased to have you call. The "latch string is always out." Come in and register, leaving any message desired if secretary is absent.

NOTICE OF MEETING

— OF THE —

Florists' International Telegraph-Delivery Association.

The Ebbitt House will be our headquarters during the S. A. F. Convention.

The *First Annual Meeting* of the F. I. T.-D. Ass'n will be held in the *Red Parlor* of the *Ebbitt House, Washington, D. C.*, on TUESDAY, AUGUST 16th, 1892, at *4:30 p. m.*, at which time and place three directors will be elected, and such other business transacted as may come before the meeting. C. B. WHITNALL, President.
H. B. BEATTY, Secretary.

The Secretary's rooms are —— —— —— ——, where he will be pleased to have you call. The "latch string is always out." Come in and register, leaving any message desired if secretary is absent.

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Tuberoses	1 00
Hollyhocks	2.00
Pink Pond Lilies	8.00
Smilax	12 50
Adiantum	1 00
Asparagus	50.00
	NEW YORK, Aug. 2.
Roses, Mermets, Brides	2.00@ 3 00
" Perles Niphetos	2 00
" Gontiers	.35
" La France, Albany	2.00@ 4.00
" Meteors	1.00
" Beauties	6.00@12.00
Carnations	.50
Valley	6.00
Adiantums	.50
Sweet peas, bunch	.02
Market flooded with flowers of all kinds.	
	PHILADELPHIA, Aug. 2
Roses, La France, Albany, Brides	2.00@ 3 00
" Perles, Niphetos	2 00@ 3.00
" Marie Guillots	2.00
Carnations	.50@ 1.00
Sweet peas	.35@ .50
Valley	6 00
Cornflower	.50
Water lilies	.35
Smilax	15.00
Adiantums	.75@ 1.00
Asters	1.00
	CHICAGO, Aug 2
Roses, Perle, Niphetos, Gontier	2.00@ 4 00
" Mermets, La France, Hoste	3 00@ 4.00
" Bennetts, Dukes, Woottons	3.00@ 4 00
" Albany, Bride	3.00@ 5 00
" Am. Beauties	8.00@16.00
Carnations, long	1.00
" short	.50
Callas, Harrisii	10.00
Adiantums	.75@ 1 00
Smilax	16.00
Pansies	.25
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The Seed Trade

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, June, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

The Forcing Bulb Industry.

The able article on the "Forcing Bulb Industry" by August Rolker, Esq., on page 1,134, deserves more than a passing notice. There is no reason why we should not grow *all* the bulbs we use, as in some parts of our country we have soil and climate adapted to every species under cultivation. The gladiolus, tuberose, and some species of lilies, all of which were imported thirty years ago, find such a congenial home here that we not only do not import, but have so turned the tables that we are now exporting annually more than we ever imported. What has been done with the bulbs mentioned may as well be done with the Roman hyacinth and narcissus in variety that are now brought from France in such enormous quantities.

This assertion is not a theory, but simply a statement of what has been done. Let us state the matter more in detail. Some four years ago the writer was asked, "What shall we do with some fifty thousand Roman hyacinths that have been delayed in transit so long that they have made such roots in the cases that they are simply packed together like a cake?" We examined the mats, and they could hardly be called bulbs so thoroughly were they matted together, and replied, "Send them to North Carolina." And they were sent to that section known as the "Thermal Belt," which is a high elevation where there is rarely more than six degrees of frost and no extreme heat. The bulbs were planted by inexperienced hands, under the most discouraging circumstances, as they were so much grown as to appear worthless, and at least two months too late for good results. Notwithstanding all these unfavorable conditions, the bulbs made a good root growth in autumn, and in spring flowered profusely, and then ripened their bulbs in the most satisfactory manner. When ripe they were taken up and dried as best they could be without suitable buildings—in fact they were dried under the shade of trees—and returned to New York. Much to our surprise, after properly cleaning, they were, to all appearances, fully as good as the best we had from France. These bulbs were sold to the most critical trade, and pronounced the best ever grown.

At the same time a large number of bulbs of the Lilium candidum, that had met the same misfortune, were sent, and these grew equally well, making splendid bulbs.

The soil in the section referred to is almost precisely the same as that in Holland, where the growing of bulbs is the leading industry, while the climate is decidedly more favorable to the growth of bulbs. Besides that, a single acre of "good bulb soil" in Holland would cost as much as one hundred acres in North Carolina.

Here, too, lilies of all denominations would find a congenial home; they grow vigorously, increase rapidly, make strong healthy bulbs, because they are entirely free from that blight that makes such sad havoc with bulbs at the North. All that is required to make this industry a profitable one in North Carolina is willing hands guided by experienced heads. Let such undertake the enterprise with a spirit that knows no failure and success is assured.

We need not speak of tulip culture as Mr. Rolker has stated that very plainly and correctly. But we will say a word in favor of what are generally known as "Dutch bulbs," which include hyacinths, crocus, narcissus, etc. These can and should all be grown in our own country; there is but one thing to prevent, viz., skilled labor; not in the cultivation—that is, in the labor of cultivation, but in the knowledge of their cultivation. This is not transferable, and can only be gained by years of watchful care, close observation and patient industry. Should any of the successful Dutch growers remove their plant to this country and give the industry the same attention they do at home they would benefit our country and at the same time produce the bulbs at less than one-half the present cost.

It may be asked why do not our florists undertake this work, a question we have already answered. We have not the knowledge necessary to carry on the enterprise successfully. Besides that, our florists lack the patience that must be shown, when we consider it takes from three to six years to produce the first quality of hyacinths. Other bulbs can be produced more rapidly, and with less skill. This is particularly true of Roman hyacinths and the many varieties of narcissus grown in France. They are as easily grown as the gladiolus and the tuberose and there is no branch of floriculture that can be so easily and profitably conducted as the growing of many classes of bulbs—which are now wholly imported—in this country.

C. L. ALLEN.

The article under the above head, on page 1,134, is valuable because so true. There is certainly a great future for American grown bulbs. Speaking of tulips, I have tried the American tulip alongside of the imported one, and the home grown bulbs always bloom stronger and better. These same bulbs have been grown here for forty years, are as good as ever, and still among the best. E. ARNOLD.

Grand Rapids, Mich.

MR. F. C. HUNTINGTON, of Indianapolis, will return from Europe about August 1. His many friends will regret to hear that his health is not improved.



Clean and round, heavy and sound,
In every bulb a flower.

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popular from one end of the country to the other. Our customers sit at the first table and pay no more than those who depend on the inexperienced caterers. Before taking your vacation make sure you have all arrangements made for Fall and Winter stock in case business may feel like taking a vacation also; but at the wrong season. Look over the special Price List we sent you and send us your order. If list mislaid send for another.

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Amaryllis lutea (Sternbergia)	14 00
Anemone chinensis, in variety	4.00
ANEMONE CORONARIA (Caen Anemones), single	6.00
ANEMONE CORONARIA flore pleno (Caen Anemones), double, EXTRA, separate colors or with names, per 100 $12 00	
Arum dracunculus, large bulbs	24 00
Chionodoxa lucilioe	4.00
" sardensis	4 00
" cre ensis	5 00
Cyclamen hederæfolium	16 00
" **giganteum universum**, extra large dark red, pink, and white, in separate colors, bulbs 5 to 8 inch circumference	40.00
3 to 5 inch "	20 00
Crocus sativus	4 00
Colchicum Agrippinæ	8 00
" flore albo	7 00
Convallaria multiflora	7 00
Fritillaria armena	8 00
Galanthus Elwesii	5 00
" imperati	9 00
Iris Germanica, varieties	12 00
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	Per 1000	Per 100
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RED & YELLOW	7.25	.85
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Toronto.

Owing to the extreme heat and a feeling of lassitude superinduced by listening to some of Great Scott's stories during his late visit to this city the writer has felt quite unequal to visiting any of the horticultural establishments this week.

The club held a sweltering meeting on the 26th inst., and the members turned up in unexpected numbers. Convention matters took up considerable time. Mr. J. H. Dunlop had taken considerable trouble to obtain the rates of the different routes to Washington and was well posted up on all matters in connection therewith. It was finally decided that as the delegation would not amount to twenty it would be better to join in with Buffalo on the invitation of Mr. W. Scott. So Toronto and Buffalo will travel in one car, and the lion and the eagle will lie down together (or I suppose the eagle will roost on the top berths and protect the slumbering lion beneath).

Mr. Vair will be placed in command of a bowling team which will make things hum on the 19th of August next. Mr. V. intends taking with him the trophy (?) won by his team last year, and will again put it up for competition.

A horticultural exhibition will be held in Buffalo during convention week (unfortunately) and several of the gardeners here who have large exhibition plants in their charge are talking seriously of sending over a car load for competition.

E.

Pittsburgh.

The members of the Florist Club will leave for Washington on the day express at 8 a. m. on Monday, August 15, via. the Pennsylvania Railroad, and arrive at 8:15 p. m. The company has promised to give the florists an elegant car for their own use for the trip. Through the generosity on the part of the railroad officials the rate has been placed very low, at one fare for the round trip, and reasonable limits have been assured for those desiring to extend their trip to other points. Any florist in our vicinity wishing to attend the convention is privileged to join our party at the same rate of fare. The fare will be $8 for the round trip between the two cities, and tickets can only be procured from E. C. Reineman, 39 Fifth avenue, to whom application should be made for same not later than Saturday, August 13. These tickets can not be had at the railroad station and are for florists and their friends only. We expect a very large delegation from our neighborhood, and as we meet the Chicago florists on the same train, and probably those from Cincinnati and St. Louis, quite a delegation will be massed together on arrival at Washington. E. C. REINEMAN.

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	Per doz.	Per 100
2½-in. pots, 12 in. high	$1.00	$ 8.00
3-inch pots, 15 in. high	1.50	12.00
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6-inch pots, 24 to 30 in. high	6.00	

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GREVILLEA ROBUSTA, 2½-inch pots, good	$8.00
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Montreal.

The fourth annual picnic of the club came off July 28, about 200 being there. The morning looked like being wet, in fact there was a smart shower, which no doubt kept a good many at home. Those who went, however, had reason to congratulate themselves, for the day was almost an ideal one for a picnic—fine and warm without being too hot. A long programme of sports was gone through. In the tug of war the Gardeners proved too strong for the Florists, but the latter had their revenge in the cricket match, winning by a score of 27 to 23. The city was reached again about 7:30 after one of the most enjoyable picnics possible. Walsh is great at a catch. Trussell was out of practice. Whiting "stayed" first rate. Bland carried out his bat and a sore finger. Hopkins was feeling pretty good. The race between Doyle and Ross was one of the events of the day. Some one made the remark that Bill pulled his pants before they were fullgrown. "All's well that ends well."

Business is about at the lowest ebb; now every one is busy getting ready for winter again. Campbell is replanting a lot this year. Bain is building two more houses. H. A. Bunyard was in town last week and H. Simmers, Toronto, was in to-day. J. B.

If you have any really good thing to sell to florists, don't fail to show it at the trade exhibition at Washington in connection with the annual convention of the Society of American Florists. All the live men in the trade will be there, and they are the men who are quick to discern merit in anything that really possesses it.

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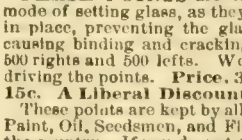
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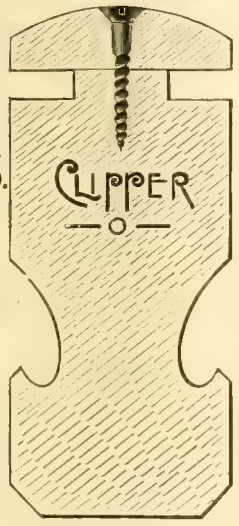
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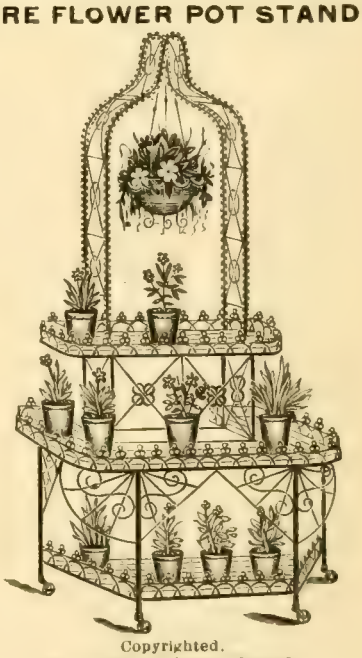
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Mr. Grove P. Rawson was very busy arranging floral designs when your correspondent called on him recently. One piece, a gates ajar, was particularly handsome. The gates were made up of the pretty pansy Lord Beaconsfield, which he finds very useful as a substitute for violets when the latter are scarce. They give a very pleasing effect. Speaking of trade he said it had been particularly good. The demand for commencement flowers during June was very large, the call being especially for loose bunches of flowers, ten such arrangements being called for where one basket was ordered. This is quite a change from the demand of former seasons.

One idea of Mr. Rawson's, which is very popular with his customers, is to have any lettering that is wanted in connection with an arrangement printed in violet ink, in a script letter, on white ribbon about two inches wide. This, when laid carelessly across a piece of work, gives a very pretty effect and is much preferred to the usual immortelle lettering. His store has lately been refitted with every convenience and in process of erection are two immense greenhouses, one 370x26, the other 300x22, the first for roses and the second for carnations.

B.

Houston, Texas.

Business is dull; could not be any worse; every one that can get off is out of town. There are no weddings and very few funerals. Flowers are plentiful. The second crop of Cape Jasmines is about over, but roses are fine. One of our finest white flowers for cut flower work is the crinum. They are in full bloom now. The past season was the best we ever had in this city. There was a reasonable supply of flowers and prices were good. There was a great demand for pansies, roses, geraniums and coleus. The Niel was the favorite rose this season. All the florists are resting, but will soon be making their preparations for the fall trade. Wright is trying to sell his Washington street place. He is going to grow Cape Jasmines, and will move to Albion, where he has a large stock already started. It is said that Theo. Hillendahl is going to buy out Mr. Wright, but there is nothing certain. Mr. Hillendahl is president of the Harris County Chrysanthemum Society, which is to give a chrysanthemum show in November.

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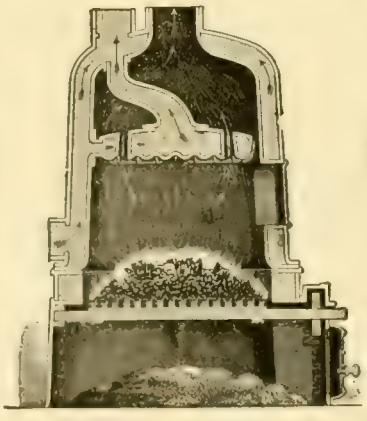
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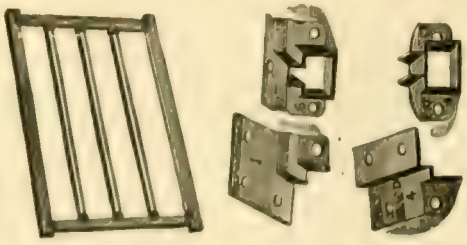


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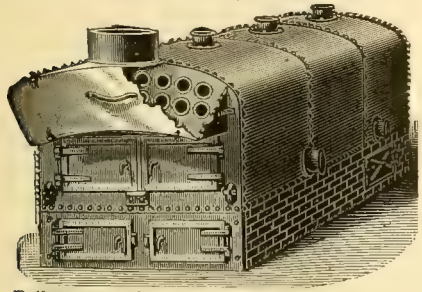
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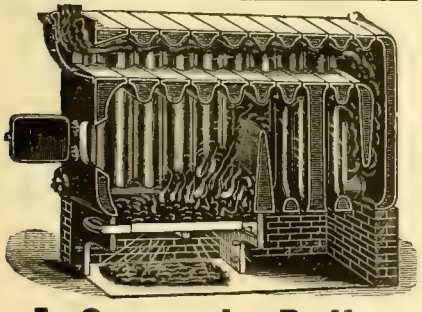


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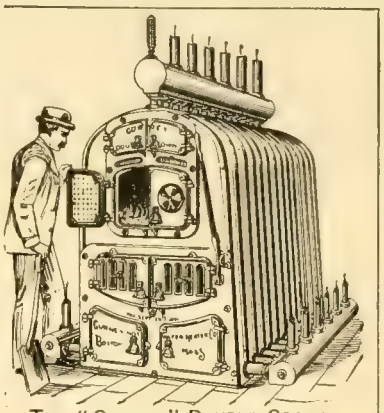
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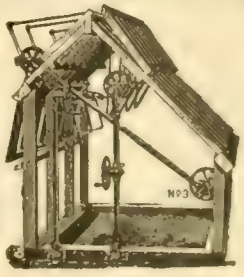
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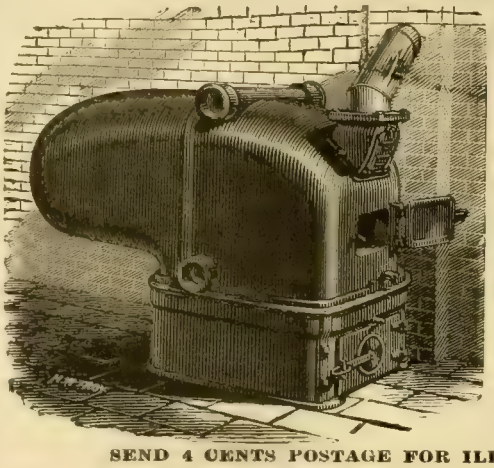
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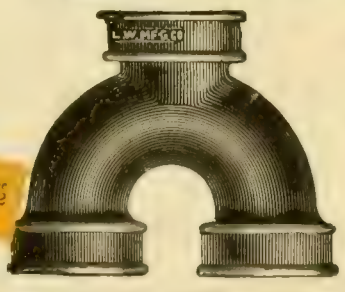


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